**Microsoft System Center**

Guide to System Center Management Pack for Windows Server 2016 DNS

Microsoft Corporation

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# Guide to System Center Management Pack for Windows Server 2016 DNS

## Document Version

This guide is based on the 10.0.9.2 version of System Center Management Pack for Windows Server 2016 DNS.

## Revision History

| **Release Date** | **Changes** |
| --- | --- |
| October 2018(version 10.0.9.2) | Bug Fixes |
| May 2017 (version 10.0.6.4) | Bug Fixes |
| November, 2016 (version 10.0.6.0) | * Introduced support for Windows Server 2016 and Nano Server * Introduced minor changes and fixes * Updated “Known Issues and Troubleshooting” section |
| May, 2016 (version 10.0.4.0) | * Introduced support for Nano Server Technical Preview 5 in DNS 2016 MP   Introduced minor changes and fixes |
| October, 2015 | Original release date and version of this guide |

# Introduction to Windows Server 2016 DNS Management Pack

The System Center Management Pack for Windows Server 2016 DNS monitors DNS health, availability, configuration, security, and zone-transfer issues on DNS servers running the Windows Server 2016 operating system.

Note

This Management Pack contains functionality for Windows Server 2016 DNS only. The management packs of different versions can live side-by-side, so you can use the previous MP versions if/when you want to monitor previous versions of Windows Server DNS.

## Changes in Version 10.0.9.2

* Fixed bug: Problem with DNS Zones Discovery for large number of zones.
* Fixed bug: Problem with stub zones discovery.
* Fixed bug: False alerts for "DNS unused Zone Detected".
* Introduced support for Windows Server 1709+ operating system.
* Rebranded the display strings and knowledge base articles according to the supported versions of the operating systems: Microsoft Windows Server 2016 and 1709+.

## Changes in Version 10.0.6.4

* Fixed bug: Fixed the problem with DNS Global Tasks failures.

## Changes in Version 10.0.6.0

* Fixed bug: DNS server discovery was causing repeated log events (Event ID: 10000) on non-2016 Windows Server computers.
* Fixed bug: DNS servers were excessively discovered for the virtual cluster servers.
* Fixed bug: incorrect error handling for script-based monitors and discoveries was leading to discovery failures and incorrect operation of the monitors.

## Changes in Version 10.0.4.0

* Introduced support for Nano Server Technical Preview 5 in DNS 2016 MP:
* DNS Management Pack discoveries were updated to support Nano Server Technical Preview 5 (used PowerShell scripts were corrected according to Nano Server Technical Preview 5 specifics)
* Redesigned WMI monitoring to support Nano Server Technical Preview 5
* Redesigned DNS.NSLookup monitors to support Nano Server Technical Preview 5. An additional logic was introduced to use NSLookup.exe on Nano servers instead of Resolve-DnsName cmdlet. For Windows Server, the monitors will use Resolve-DnsName cmdlet.
* Fixed issue with Task Output for Global Tasks not being performed successfully on Nano Server Technical Preview 5
* Fixed issue: Refresh Zone on Server 2016 and Nano Server Technical Preview 5 executed with error; added availability of timeout overriding to prevent the error.
* Fixed discovery issue with several IP addresses: Name Servers field is cut according to maximum length of 256 symbols, the discovery works fine now.
* Functionality improvement: Is Signed Zone discovery was deprecated and moved to Zone discovery; it is disabled by default now.
* Fixed record output issue with Zone Delegation Global task (corrected script name misprint)
* Updated Knowledge Base articles and display strings

# Supported Configurations

This System Center Management Pack supports the following operating systems:

* Windows Server 2016 with DNS role installed
* Windows PowerShell feature enabled
* DNS Server Tools enabled (RSAT -> Role Administration Tools -> DNS Server Tools)
* Nano Server with [Microsoft-NanoServer-DNS-Package](https://technet.microsoft.com/en-us/library/mt126167.aspx) and with DNS role installed

All the management packs are supported on System Center 2012 SP1, System Center 2012 R2 and System Center 2016 Operations Manager.

Please note that Nano Server monitoring is supported by SCOM 2016 only.

# Getting Started

This section describes the actions you should take before you import the management pack, any steps you should take after you import the management pack, and information about customizations.

# Files in This Management Pack

The Windows Server DNS Management Pack includes the following files:

| **File Name** | **Description** |
| --- | --- |
| Microsoft.Windows.DNSServer.2016.mp | Monitoring Management Pack for monitoring Windows Server DNS on:   * Windows Server® 2016 |
| Microsoft.Windows.DNSServer.Generic.Presentation.mp | Management pack with generic views for DNS servers. |
| Microsoft.Windows.DNSServer.Generic.Dashboard.mp | **Optional** Management pack that enables generic dashboards. |

# Before You Import The Management Pack

Before you import the Management Pack, note the following limitations:

* Agentless monitoring is not supported.

## Security Considerations

This section provides information about using a low-privilege account with the System Center Management Pack for Windows Server 2016 DNS.

### Low-Privilege Environments

The System Center Management Pack for Windows Server 2016 DNS uses the agent action account to perform discovery and run rules, tasks, and monitors. The agent action account can run as Local System or as a named account. When running as Local System, the agent action account should have all the rights needed to perform discovery and run rules, tasks, and monitors. The action account should have DNS administrator rights for all monitored DNS servers.

# How to Import the System Center Management Pack for Windows Server DNS

For instructions about importing a management pack, see [How to Import a Management Pack](http://go.microsoft.com/fwlink/p/?LinkID=219431).

# Creating a New Management Pack for Customizations

Most vendor management packs are sealed so that you cannot change any of the original settings in the management pack file. However, you can create customizations, such as overrides or new monitoring objects, and save them to a different management pack. By default, the Operations Manager saves all customizations to the default management pack. As a best practice, you should instead create a separate management pack for each sealed management pack you want to customize.

Creating a new management pack for storing overrides has the following advantages:

 It simplifies the process of exporting customizations that were created in your test and pre-production environments to your production environment. For example, instead of exporting a default management pack that contains customizations from multiple management packs, you can export just the management pack that contains customizations of a single management pack.

 You can delete the original management pack without first needing to delete the default management pack. A management pack that contains customizations is dependent on the original management pack. This dependency requires you to delete the management pack with customizations before you can delete the original management pack. If all of your customizations are saved to the default management pack, you must delete the default management pack before you can delete an original management pack.

 It is easier to track and update customizations to individual management packs.

For more information about sealed and unsealed management packs, see [Using Management Packs](http://go.microsoft.com/fwlink/?LinkId=699245&clcid=0x409).

# Understanding the Management Pack Operations

In this section:

[Classes](#Classes)

[Discoveries](#Discoveries)

[Tasks](#Tasks)

[Monitors](#Monitors)

[Rules](#Rules)

## Classes

|  |  |  |
| --- | --- | --- |
| **Name** | **Base Class** | **ID** |
| Windows DNS Domain | System Service | Microsoft.Windows.DNSServer.2016.DNSDomain |
| Windows DNS Forwarder | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.Forwarder |
| Windows DNS Forwarder Conditional Forward | Windows DNS Forwarder | Microsoft.Windows.DNSServer.2016.Forwarder.Conditional.Forward |
| Windows DNS Forwarder Conditional Reverse | Windows DNS Forwarder | Microsoft.Windows.DNSServer.2016.Forwarder.Conditional.Reverse |
| Windows DNS Forwarder IP Address | Microsoft Windows Application Component | Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress |
| Windows DNS Forwarder IP Address Conditional Forward | Windows DNS Forwarder IP Address | Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress.Conditional.Forward |
| Windows DNS Forwarder IP Address Conditional Reverse | Windows DNS Forwarder IP Address | Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress.Conditional.Reverse |
| Windows DNS Forwarder IP Address Unconditional | Windows DNS Forwarder IP Address | Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress.Unconditional |
| Windows DNS Forwarder Unconditional | Windows DNS Forwarder | Microsoft.Windows.DNSServer.2016.Forwarder.Unconditional |
| Windows DNS Hosted Component | Microsoft Windows Application Component | Microsoft.Windows.DNSServer.2016.HostedComponent |
| Windows DNS Server | Microsoft Windows Computer Role | Microsoft.Windows.DNSServer.2016.Server |
| DNS 2016 Servers | Instance Group | Microsoft.Windows.DNSServer.2016.Group |
| Windows DNS Server IP Address | Microsoft Windows Application Component | Microsoft.Windows.DNSServer.2016.Server.IPAddress |
| Windows DNS Zone | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.Zone |
| Windows DNS Zone Global | Windows DNS Zone | Microsoft.Windows.DNSServer.2016.Zone.Global |
| Windows DNS Zone WINS Abstract | Microsoft Windows Application Component | Microsoft.Windows.DNSServer.2016.Zone.WINS.Abstract |
| Windows DNS Zone WINS Connector | Windows DNS Zone WINS Abstract | Microsoft.Windows.DNSServer.2016.Zone.WINSConnector |
| Windows DNS Zone WINS-R Connector | Windows DNS Zone WINS Abstract | Microsoft.Windows.DNSServer.2016.Zone.WINSRConnector |
| Windows DNS Server 2016 Zone Scope | Microsoft Windows Application Component | Microsoft.Windows.DNSServer.2016.ZoneScope |
| Windows DNS Server 2016 Client Subnet | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.ClientSubnet |
| Windows DNS Server 2016 Recursion Scope | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.RecursionScope |
| Windows DNS Server 2016 Server Level Policy | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.Policy.ServerLevel |
| Windows DNS Server 2016 Zone Level Policy | Microsoft Windows Application Component | Microsoft.Windows.DNSServer.2016.Policy.ZoneLevel |
| Windows DNS Server 2016 Server Level Query Resolution Policy | Windows DNS Server 2016 Server Level Policy | Microsoft.Windows.DNSServer.2016.Policy.QueryResolution.ServerLevel |
| Windows DNS Server 2016 Zone Level Zone Transfer Policy | Windows DNS Server 2016 Zone Level Policy | Microsoft.Windows.DNSServer.2016.Policy.ZoneTransfer.ZoneLevel |
| Windows DNS Server 2016 Zone Level Query Resolution Policy | Windows DNS Server 2016 Zone Level Policy | Microsoft.Windows.DNSServer.2016.Policy.QueryResolution.ZoneLevel |
| Windows DNS Server 2016 Server Level Zone Transfer Policy | Windows DNS Server 2016 Server Level Policy | Microsoft.Windows.DNSServer.2016.Policy.ZoneTransfer.ServerLevel |
| Hidden class for remote task | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.Healthcheck.TaskTarget |
| Windows DNS Server Signed Zone Group | System Center Instance Group | Microsoft.Windows.DNSServer.2016.SignedZone.Group |
| Windows 2016 DNS Trust Point | Windows DNS Hosted Component | Microsoft.Windows.DNSServer.2016.TrustPoint |
| Microsoft Windows Server DNS 2016 Objects Group | System Center Instance Group | Microsoft.Windows.DNSServer.2016.AlertTargets.Group |

## Discoveries

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Target** | **Enabled by default** | **Frequency** | **Comments** |
| Microsoft Windows Server DNS Domain Discovery | Windows DNS Zone | True | 14700 |  |
| Microsoft Windows Server DNS Forwarder Conditional Discovery | Windows DNS Server | True | 14460 | Rewritten to PowerShell. Implemented new error handling: if any error is received while querying the forwarder, no new discovery data is returned. Name Servers field is cut according to maximum length of 256 symbols. Therefore, it includes full names of the servers only. |
| Microsoft Windows Server DNS Forwarder Unconditional Discovery | Windows DNS Server | True | 14520 | Rewritten to PowerShell. Implemented new error handling: if any error is received while querying the forwarder, no new discovery data is returned. |
| Windows DNS Server 2016 Group Discovery | Windows DNS Server 2016 | True |  |  |
| Microsoft Windows Server DNS Server Discovery | Windows DNS Server | True | 14400 |  |
| Microsoft Windows Server DNS Server Property Discovery | Windows DNS Server | True | 14580 | Rewritten to PowerShell. Implemented new error handling: if any error is received while querying the forwarder, no new discovery data is returned. |
| Microsoft Windows Server DNS WINS Discovery | Windows DNS Zone | True | 14760 | Rewritten to PowerShell. Implemented new error handling: if any error is received while querying the forwarder, no new discovery data is returned. Name Servers field is cut according to maximum length of 256 symbols. Therefore, it includes full names of the servers only. WINS-R records do not work on Nano Server. |
| Microsoft Windows Server DNS Zone Discovery | Windows DNS Server | True | 14640 | Rewritten to PowerShell. Implemented new error handling: if any error is received while querying the forwarder, no new discovery data is returned. Name Servers field is cut according to maximum length of 256 symbols. Therefore, it includes full names of the servers only. |
| DNS Zone Is Signed Property Discovery | Windows DNS Zone | False | 15000 | The discovery was deprecated and moved to Zone discovery. |
| Signed Zone Group Discovery | Windows DNS Server Signed Zone Group | True |  |  |
| Windows Sever 2016 DNS Trust Points Discovery | Windows DNS Server | False | 15000 |  |
| Microsoft Windows Server DNS Client Subnet Discovery | Windows DNS Server | True | 14500 |  |
| Microsoft Windows Server DNS Zone Scope Discovery | Windows DNS Zone | True | 14610 |  |
| Microsoft Windows Server DNS Recursion Scope Discovery | Windows DNS Server | True | 14630 |  |
| Microsoft Windows Server DNS Server Level Policy Discovery | Windows DNS Server | True | 14660 |  |
| Microsoft Windows Server DNS Zone Level Policy Discovery | Windows DNS Zone | True | 14660 |  |
| Microsoft Windows Server DNS Server 2016 Group Populator | Generic group that contains DNS Server of different versions | True |  |  |
| Microsoft Windows Server DNS 2016 Objects Generic Group Populator | Generic group that contains alerts from DNS Server objects | True |  |  |
| Microsoft Windows Server DNS 2016 Objects Group Populator | Microsoft Windows Server DNS 2016 Objects Group | True |  |  |

## Tasks

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Target** | **Comments** |
| Clear Cache | Clears the DNS Server Cache | Windows DNS Server | It has a detailed output on Nano Server. |
| Pause Zone | Pauses a Zone | Windows DNS Zone | It has a detailed output on Nano Server. |
| Refresh Zone | Refreshes a Zone. | Windows DNS Zone | Works on Secondary Zone only; standard Zone transfer latency is 15 seconds. It requires changing the latency for some zones. Supported with Override. |
| Reload Zone | Reloads a Zone | Windows DNS Zone | It has a detailed output on Nano. |
| Resume Zone | Resumes a Zone | Windows DNS Zone | It has a detailed output on Nano Server. |
| Start Scavenging | Starts DNS Server Scavenging | Windows DNS Server | It has a detailed output on Nano Server. |
| Start DNS Service | Starts the DNS Service | Windows DNS Server |  |
| Stop DNS Service | Stops the DNS Service | Windows DNS Server |  |
| Update Zone | Updates a Zone | Windows DNS Zone | It has a detailed output on Nano Server. Works with AD Integrated zone only. |
| Validate Signed Zones | Validates the DNSSEC setting if the setup is configured for DNSSEC validations for given servers. Specifies server names overriding Parameter1. | Hidden class for remote task | Not supported on Nano. |
| Test Zone Aging Health | Tests zone aging settings for each zone in given list. Specifies zone names overriding Parameter1. | Hidden class for remote task | Not supported on Nano Server. |
| Test Zone Delegation Health | Tests zone delegation settings for each zone in given list. Specifies zone names overriding Parameter1. | Hidden class for remote task | Not supported on Nano Server. |
| Test Configured Forwarder Health | Checks that all the Forwarders from servers in given list are responsive. Specifies server names overriding Parameter1. | Hidden class for remote task | Not supported on Nano Server. |
| Test Configured Root Hints Health | Checks that all the Root Hints from given servers are responsive. Specifies server names overriding Parameter1. | Hidden class for remote task | Not supported on Nano Server. |
| Test Root Domain Health Across All DNS Servers | Tests availability for each domain to each DNS server. Specifies server names overriding Parameter1 and domain names with Parameter2. | Hidden class for remote task | Not supported on Nano Server. |
| Test Zone Health Across All DNS Servers | Sends a name resolution query for each zone to each DNS server. Specifies server names overriding Parameter1 and zone names with Parameter2. | Hidden class for remote task | Not supported on Nano Server. |
| Global Validate Signed Zones | Validates the DNSSEC setting if the setup is configured for DNSSEC validations for all discovered servers. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |
| Global Test Zone Aging Health | Tests zone aging settings for each discovered zone. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |
| Global Test Zone Delegation Health | Tests zone delegation settings for each discovered zone. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |
| Global Test Configured Forwarder Health | Checks that all the Forwarders from each discovered server are responsive. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |
| Global Test Configured Root Hints Health | Checks that all the Root Hints from each discovered server are responsive. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |
| Global Test Root Domain Health Across All DNS Servers | Tests availability for each discovered domain to each discovered DNS server. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |
| Global Test Zone Health Across All DNS Servers | Sends a name resolution query for each discovered zone to each discovered DNS server. | DNS 2016 Servers | At least one Windows 2016 DNS Server is required for execution of the task. |

## Monitors

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled by default** | **Comments** |
| Microsoft Windows Server DNS ADI Sync Incomplete | Windows DNS Server | AvailabilityHealth | True |  |
| Microsoft Windows Server DNS Auto configuration Failed | Windows DNS Server | ConfigurationHealth | True |  |
| Microsoft Windows Server DNS Forwarder Conditional Forward Localhost NSLookup | Windows DNS Forwarder Conditional Forward | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Forwarder Conditional Reverse Localhost NSLookup | Windows DNS Forwarder Conditional Reverse | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Forwarder IP Address Conditional Forward NSLookup | Windows DNS Forwarder IP Address Conditional Forward | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Forwarder IP Address Conditional Reverse NSLookup | Windows DNS Forwarder IP Address Conditional Reverse | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Forwarder IP Address Unconditional NSLookup | Windows DNS Forwarder IP Address Unconditional | AvailabilityHealth | False | Rewritten to PowerShell |
| Microsoft Windows Server DNS Forwarder Unconditional Localhost NSLookup | Windows DNS Forwarder Unconditional | AvailabilityHealth | False | Rewritten to PowerShell |
| Microsoft Windows Server DNS GlobalNames NSLookup | Windows DNS Zone Global | AvailabilityHealth | False | Rewritten to PowerShell |
| Microsoft Windows Server DNS IP Address NSLookup | Windows DNS Server IP Address | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Recursive Query Failure/sec | Windows DNS Server | PerformanceHealth | True |  |
| Microsoft Windows Server DNS Recursive TimeOut/sec | Windows DNS Server | PerformanceHealth | True |  |
| Microsoft Windows Server DNS Server Logging Level | Windows DNS Server | ConfigurationHealth | True |  |
| Microsoft Windows Server DNS Service Running | Windows DNS Server | AvailabilityHealth | True |  |
| Microsoft Windows Server DNS WINS NSLookup | Windows DNS Zone WINS Connector | AvailabilityHealth | False | Rewritten to PowerShell |
| Microsoft Windows Server DNS WINSR NSLookup | Windows DNS Zone WINS-R Connector | AvailabilityHealth | False | Rewritten to PowerShell |
| Microsoft Windows Server DNS WMI Validation Test One | Windows DNS Server | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS WMI Validation Test Two | Windows DNS Server | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Zone NSLookup | Windows DNS Zone | AvailabilityHealth | True | Rewritten to PowerShell |
| Microsoft Windows Server DNS Zone State | Windows DNS Zone | AvailabilityHealth | True |  |
| Windows 2016 DNS SEC - Zone Is NOT Signed Monitor | Windows DNS Zone | AvailabilityHealth | False |  |
| Windows 2016 DNS SEC - Zone Key Master Status Monitor | Windows DNS Zone | AvailabilityHealth | False |  |
| Windows 2016 DNS SEC - Zone Key Rollover Status Monitor | Windows DNS Zone | AvailabilityHealth | False |  |
| Windows 2016 DNS SEC - Trust Point State Monitor | Windows DNS TrustPoint | AvailabilityHealth | False |  |
| Windows DNS Server 2016 Cache Limit Hit | Windows DNS Server | AvailabilityHealth | True |  |
| Windows DNS 2016 DNSSEC Denial Of Existence - Zone Security Monitor | Windows DNS Zone | PerformanceHealth | False |  |
| Windows DNS Server 2016 Detect Server Query Overload | Windows DNS Server | PerformanceHealth | True |  |
| Windows DNS Server 2016 Detect Zone Query Overload | Windows DNS Zone | PerformanceHealth | True |  |
| Windows DNS Server 2016 Detect Unused Zone | Windows DNS Zone | PerformanceHealth | True |  |
| Windows 2016 DNS SEC - Name Resolution Queries Errors Monitor | Windows DNS Zone | SystemHealthPerformanceState | False |  |

These monitors target www.microsoft.com by default. If your DNS servers have internet access, these monitors can be enabled as-is. If your DNS servers have no internet access, override the HostName properties of the monitors to the setting that will work in your environment.

## Rules

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Target** | **Category** | **Enabled by default** |
| Microsoft Windows Server DNS ADI Background Load Failure | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Delete Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI DNSAdmins Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Enlistment Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI FSMO Unavailable | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Interface Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI LDAP Time out | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Load Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Open Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Open Partition Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Partition Create Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Record Load Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Retryable Zone Operation Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Security Interface Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Write Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Write Time out | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS ADI Zone Conflict | Windows DNS Zone | Alert | True |
| Microsoft Windows Server DNS ADI Zone Operation Failed | Windows DNS Zone | Alert | True |
| Microsoft Windows Server DNS Collection AXFR Request Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection AXFR Request Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection AXFR Response Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection AXFR Success Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection AXFR Success Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Caching Memory | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Database Node Memory | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update No Operation | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update No Operation/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Queued | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Rejected | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Time Outs | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Written to Database | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Dynamic Update Written to Database/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Error | Windows DNS Server | EventCollection | True |
| Microsoft Windows Server DNS Collection Information | Windows DNS Server | EventCollection | True |
| Microsoft Windows Server DNS Collection IXFR Request Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection IXFR Request Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection IXFR Response Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection IXFR Success Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection IXFR Success Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection IXFR TCP Success Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection IXFR UDP Success Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Nbstat Memory | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Notify Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Notify Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Record Flow Memory | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Recursive Queries | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Recursive Queries/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Recursive Query Failure | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Recursive Query Failure/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Recursive Send Time Outs | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Recursive Time Out/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Secure Update Failure | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Secure Update Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Secure Update Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection TCP Message Memory | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection TCP Query Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection TCP Query Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection TCP Response Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection TCP Response Sent/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Total Query Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Total Query Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Total Response Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Total Response Sent/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection UDP Message Memory | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection UDP Query Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection UDP Query Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection UDP Response Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection UDP Response Sent/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Unmatched Responses Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Warning | Windows DNS Server | EventCollection | True |
| Microsoft Windows Server DNS Collection WINS Lookup Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Lookup Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Response Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Response Sent/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Reverse Lookup Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Reverse Lookup Received/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Reverse Response Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection WINS Reverse Response Sent/sec | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Zone Transfer Failure | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Zone Transfer Request Received | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Zone Transfer SOA Request Sent | Windows DNS Server | PerformanceCollection | True |
| Microsoft Windows Server DNS Collection Zone Transfer Success | Windows DNS Server | PerformanceCollection | True |
| Windows DNS Server 2016 Number Of Queries Performance Collection Rule | Windows DNS Zone | PerformanceCollection | True |
| Windows DNS Server 2016 Queries Failure Performance Collection Rule | Windows DNS Zone | PerformanceCollection | True |
| Windows DNS Server 2016 Queries Name Error Performance Collection Rule | Windows DNS Zone | PerformanceCollection | True |
| Microsoft Windows Server DNS Configuration Boot File Not Found | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Could Not Open Database | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Domain Node Creation Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration File Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration File Open Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration File Warning | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Invalid Listen Addresses | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Invalid Registry Setting | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Invalid Zone Type | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration No Forwarding Addresses | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration No Zone File | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Open Socket For Address | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Plug in Initialization Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Registry Operation Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Reg Zone Creation Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Secondary Requires Masters | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration SingleLabelHostname | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Update DS Peers Failure | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Update Listen Addresses | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Zone Bad Primary Server | Windows DNS Zone | Alert | True |
| Microsoft Windows Server DNS Configuration Zone Creation Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Configuration Zone Expiration | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Root Hints Cache File Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Root Hints No Root Name Server | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS RPC Initialize Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service Connection Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service Dependency Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service File Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service Memory Error | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service Memory Warning | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service Socket Failure | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Service Thread Creation Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS WINS Connector Initialize Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Zone Incremental Transfer Failed | Windows DNS Zone | Alert | True |
| Microsoft Windows Server DNS Zone Transfer Aborted | Windows DNS Zone | Alert | True |
| Microsoft Windows Server DNS Zone Transfer Failed | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Error while signing Zone | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Zone Update Failure | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Zone Rollover Failure | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Zone Replication Failure | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Zone Resign Failure | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Zone Load Sign Failure | Windows DNS Zone | Alert | True |
| Windows 2016 DNS SEC - Zone Signature Refresh Failure | Windows DNS Zone | Alert | True |
| Windows Microsoft Windows Server 2016 DNS DS Sign Failed | Windows DNS Zone | Alert | True |
| Microsoft Windows Server 2016 DNS DS AutoUpdate Aborted | Windows DNS Zone | Alert | True |
| Microsoft Windows Server 2016 DNS Trust Anchors Zone Load Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server 2016 DNS Trust Point Deleted | Windows DNS Server | Alert | True |
| Microsoft Windows Server 2016 DNS Invalid Trust Anchor | Windows DNS Server | Alert | True |
| Microsoft Windows Server 2016 DNS Active Refresh Query Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server 2016 DNS Zone Unsign Failed | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS failed to load Server Level Policy | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS failed to load Zone Level Policy | Windows DNS Server 2016 Zone Level Policy | Alert | True |
| Microsoft Windows Server DNS failed to load Zone Scopes | Windows DNS Zone | Alert | True |
| Microsoft Windows Server DNS failed to load Zone Scope | Windows DNS Server 2016 Zone Scope | Alert | True |
| Microsoft Windows Server DNS failed to write Zone Scope data | Windows DNS Server 2016 Zone Scope | Alert | True |
| Microsoft Windows Server DNS failed to load Recursion Scope | Windows DNS Server 2016 Recursion Scope | Alert | True |
| Microsoft Windows Server DNS failed to load Client Subnet | Windows DNS Server | Alert | True |
| Microsoft Windows Server DNS Zone Transfer EDNS0 option is invalid | Windows DNS Server | Alert | True |

# Placing Monitored Objects in Maintenance Mode

When a monitored object, such as a computer or distributed application, goes offline for maintenance, the Operations Manager detects that no agent heartbeat is being received and, as a result, may generate numerous alerts and notifications. To prevent alerts and notifications, place the monitored object into maintenance mode. In maintenance mode, alerts, notifications, rules, monitors, automatic responses, state changes, and new alerts are suppressed at the agent.

For general instructions on placing a monitored object in maintenance mode, see [How to Suspend Monitoring Temporarily by Using Maintenance Mode.](http://go.microsoft.com/fwlink/?LinkId=699246&clcid=0x409)

# Viewing Information in the Operations Manager Console

## Version-Independent (Generic) Views and Dashboards

Microsoft.Windows.DNSServer.Generic.Presentation.mp management pack introduces common folder structure, which will be used by future releases of the Windows Server DNS monitoring packs. The following views and dashboards are version-independent, and show information about all versions of Windows Server DNS:

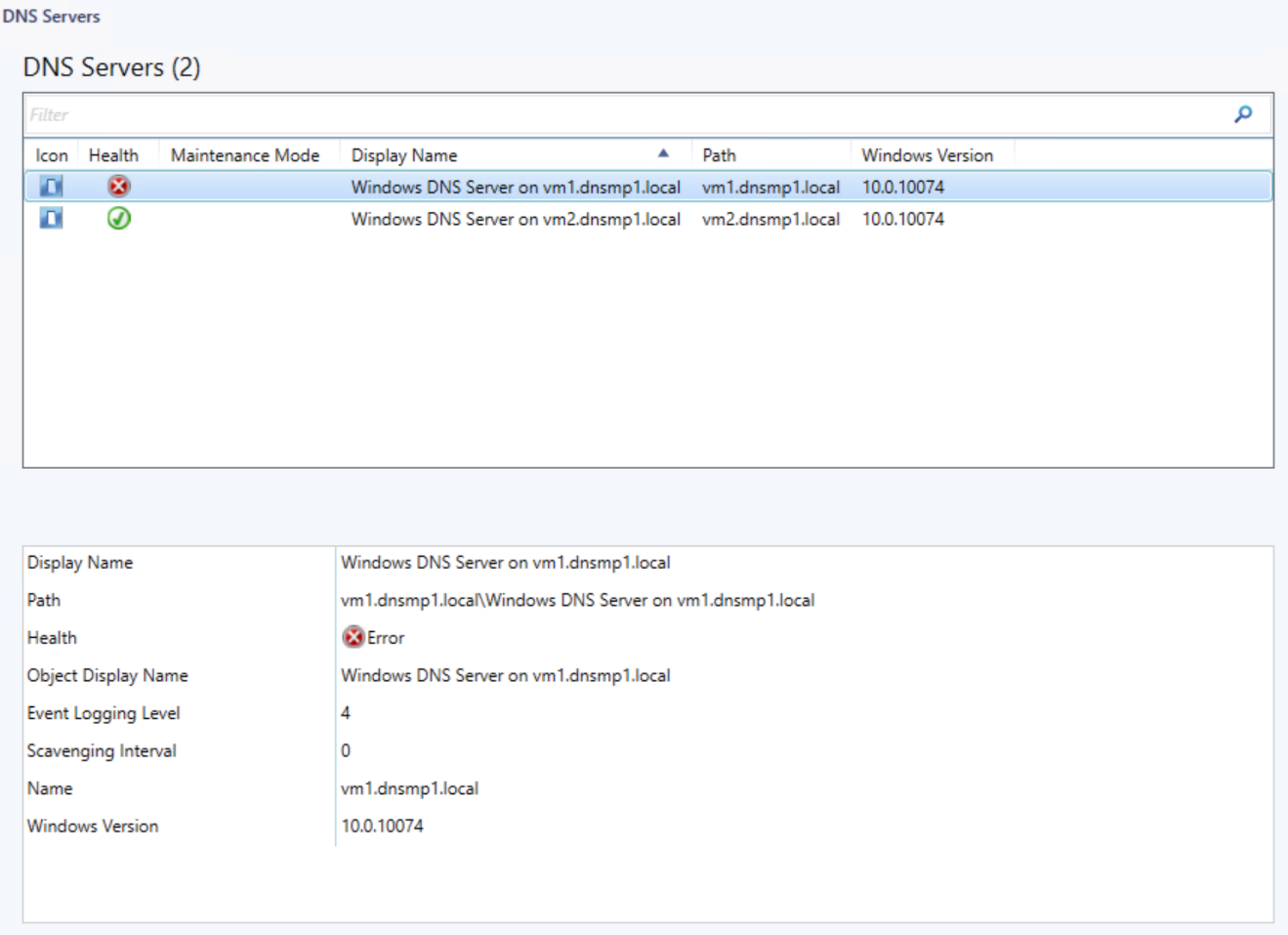
 Microsoft Windows Server DNS

Active Alerts

DNS Servers

Task Status

“DNS Servers” dashboard provides information about all DNS Servers:



The Monitoring Pack for Microsoft Windows DNS Server introduces a comprehensive set of state, performance and alert views, which can be found in the dedicated folder:

* Monitoring
* Microsoft Windows Server DNS
* **Microsoft Windows Server DNS 2016**

Links

The following links connect you to information about common tasks that are associated with System Center management packs:

System Center 2012 - Operations Manager

 [Management Pack Life Cycle](http://go.microsoft.com/fwlink/p/?LinkID=232986)

 [How to Import a Management Pack](http://go.microsoft.com/fwlink/p/?LinkID=219431)

 [Tuning Monitoring by Using Targeting and Overrides](http://go.microsoft.com/fwlink/p/?LinkID=217065)

 [How to Create a Run As Account](http://go.microsoft.com/fwlink/p/?LinkId=232988)

 [How to Export a Management Pack](http://go.microsoft.com/fwlink/p/?LinkId=232990)

 [How to Remove a Management Pack](http://go.microsoft.com/fwlink/p/?LinkId=232991)

For questions about Operations Manager and management packs, see [System Center Operations Manager community forum](http://go.microsoft.com/fwlink/?LinkID=179635).

A useful resource is [System Center Operations Manager Unleashed blog](http://go.microsoft.com/fwlink/?LinkId=246391), which contains “By Example” posts for specific management packs.

For additional information about Operations Manager, see [System Center 2012 - Operations Manager Survival Guide](http://go.microsoft.com/fwlink/?LinkId=246383).

Important

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## Known Issues and Troubleshooting

**Error in the event log “The PowerShell script failed with below exception…”**

**Issue:** This event in the event log may occur when the real object is removed, but not deleted from SCOM.

**Resolution:** Wait until next discovery is completed.

**Global Test Configured Root Hints Health task may work incorrectly**

**Issue:** On some configurations, Global Test Configured Root Hints Health task may work incorrectly due to corresponding hidden task failure.

**Resolution:** No resolution available.

**Some Global tasks may fail with timeout**

**Issue:** The following Global tasks may fail with timeout while working on environments with large amounts of DNS servers and zones:

* Global Test Zone Health Across All DNS Servers
* Global Test Root Domain Health Across All DNS Servers
* Global Test Configured Forwarder Health

**Resolution:** No resolution available.

**Global tasks may work incorrectly if the zones of DNS servers are configured differently, or the lists of the zones are different.**

**Issue:** By design, Global tasks uses the list of zones discovered by the agents installed on the DNS servers, but perform the check only at the first DNS Server in the list. Therefore, Global tasks may fail if DNS zones are not synchronized between all DNS servers monitored by SCOM.

**Resolution:** No resolution available.

**On Nano Server, PowerShell script and monitoring host operation may fail with an error**

**Issue:** On Nano Server,PowerShell script and monitoring host operation may fail with “System.OutOfMemoryException” error. This issue may be connected with memory leak in WMI processes.

**Resolution:** No resolution available.

**Error with WMI and COM objects inside the Monitoring Agent workflows may occur.**

**Issue:** Error with WMI and COM objects inside the Monitoring Agent workflows may occur. The PowerShell script fails with the following exception:

*Illegal operation attempted on a registry key that has been marked for deletion.*

**Root cause:** During the process of monitoring, the user logs on to the machine locally under the same account used for the monitoring performed on this machine. When the user logs off, registry keys in the monitoring user profile are no longer available due to User Profile Service functionality of forced unload of the user profile upon user logoff.

**Resolution:** In order to prevent this issue, do not use the same user account for the monitoring and local logon. If the issue still occurs, in the group policy editor, change “Do not forcefully unload the user registry at user logoff” policy setting to “Enabled”. After that, restart the Monitoring agent.

**"DNS Zones Monitoring fails for large number of Zones”**

Issue: DNS Zones workflows causes the monitoring to crash when there are large number of DNS Zones

**Workaround**: Disable the Rules and Monitors on Zones and create a Group for inclusion list i.e. add priority zones to the group and enable the monitors and rules to run only on the group.

# Appendix: Management Pack Objects and Workflows

The System Center Management Pack for Windows Server 2016 DNS discovers the object types described in the following sections.

**DNS 2016 Servers**

**DNS 2016 Servers - Dependency (rollup) monitors**

**Microsoft Windows Server DNS 2016 Servers Availability**

A dependency monitor to see health from Windows DNS 2016 Servers.

**Hidden class for remote task**

**Hidden class for remote task - Discoveries**

**Microsoft Windows Server DNS Server Property Discovery**

Discovers additional properties of the DNS server

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14580 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows 2016 DNS Trust Point**

This entity represents a DNS Trust Point defined in a Windows Server 2016 computer.

**Windows 2016 DNS Trust Point - Discoveries**

**Windows Sever 2016 DNS Trust Points Discovery**

This workflow discovers all DNS Trust points all Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Interval in seconds |  | 15000 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows 2016 DNS Trust Point - Unit monitors**

**Windows 2016 DNS SEC - Trust Point State Monitor**

This monitor checks the state of the DNS Trust Point in Windows Server 2016 computer.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Interval seconds | How frequently (in seconds) the value should be sampled. | 900 | | Sync Time | Synchronization time for the module execution. |  | | Timeout Seconds | How much time (in seconds) to wait for the module to finish execution. | 300 | |  |
|  |  |  |

**Windows DNS Domain**

**Windows DNS Domain - Discoveries**

**Microsoft Windows Server DNS Domain Discovery**

Populates the DNS Domain Distributed Application

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval Seconds |  | 14700 | |  |
|  |  |  |

**Windows DNS Domain - Dependency (rollup) monitors**

**Microsoft Windows Server DNS Domain Depends On Zone Performance**

A dependency monitor to see all the zones in a domain across multiple servers.

**Microsoft Windows Server DNS Domain Depends On Zone Availability**

A dependency monitor to see all the zones in a domain across multiple servers.

**Microsoft Windows Server DNS Domain Depends On Zone Security**

A dependency monitor to see all the zones in a domain across multiple servers.

**Microsoft Windows Server DNS Domain Depends On Zone Configuration**

A dependency monitor to see all the zones in a domain across multiple servers.

**Windows DNS Forwarder Conditional Forward**

**Windows DNS Forwarder Conditional Forward - Discoveries**

**Microsoft Windows Server DNS Forwarder Conditional Discovery**

Discovers Conditional Forwarders

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14460 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Forwarder Conditional Forward - Unit monitors**

**Microsoft Windows Server DNS Forwarder Conditional Forward Localhost NSLookup**

Testing the forwarder using NSLookup performed against localhost.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Accept Non Authoritative |  | true | | Host Name |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder"]/DomainName$. | | Interval Seconds |  | 904 | | Query Timeout Seconds |  | 10 | | Query Type |  | A | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |

**Windows DNS Forwarder Conditional Forward - Aggregate monitors**

**Microsoft Windows Server DNS Forwarder Conditional Forward NSLookup**

Includes the results of both the tests performed against localhost and the tests performed against the forwarder's remote targets.

**Windows DNS Forwarder Conditional Forward - Dependency (rollup) monitors**

**Microsoft Windows Server DNS Forwarder Conditional Forward IP Addresses NSLookup**

Includes the results of NSLookup tests against all targets. Healthy if at least one target is healthy.

**Windows DNS Forwarder Conditional Reverse**

**Windows DNS Forwarder Conditional Reverse - Discoveries**

**Microsoft Windows Server DNS Forwarder Conditional Discovery**

Discovers Conditional Forwarders

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14460 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Forwarder Conditional Reverse - Unit monitors**

**Microsoft Windows Server DNS Forwarder Conditional Reverse Localhost NSLookup**

Testing the forwarder using NSLookup performed against localhost.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Accept Non Authoritative |  | true | | Host Name |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder"]/DomainName$ | | Interval Seconds |  | 905 | | Query Timeout Seconds |  | 10 | | Query Type |  | PTR | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |

**Windows DNS Forwarder Conditional Reverse - Aggregate monitors**

**Microsoft Windows Server DNS Forwarder Conditional Reverse NSLookup**

Includes the results of both the tests performed against localhost and the tests performed against the forwarder's remote targets.

**Windows DNS Forwarder Conditional Reverse - Dependency (rollup) monitors**

**Microsoft Windows Server DNS Forwarder Conditional Reverse IP Addresses NSLookup**

Includes the results of NSLookup tests against all targets. Healthy if at least one target is healthy.

**Windows DNS Forwarder IP Address Conditional Forward**

**Windows DNS Forwarder IP Address Conditional Forward - Discoveries**

**Microsoft Windows Server DNS Forwarder Conditional Discovery**

Discovers Conditional Forwarders

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14460 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Forwarder IP Address Conditional Forward - Unit monitors**

**Microsoft Windows Server DNS Forwarder IP Address Conditional Forward NSLookup**

Tests a single target of the forwarder.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Accept Non Authoritative |  | true | | Host Name |  | $Target/Host/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder"]/DomainName$. | | Interval Seconds |  | 908 | | Query Timeout Seconds |  | 10 | | Query Type |  | A | | Script Timeout Seconds |  | 300 | | Server |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress"]/IPAddress$ | |  |
|  |  |  |

**Windows DNS Forwarder IP Address Conditional Reverse**

**Windows DNS Forwarder IP Address Conditional Reverse - Discoveries**

**Microsoft Windows Server DNS Forwarder Conditional Discovery**

Discovers Conditional Forwarders

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14460 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Forwarder IP Address Conditional Reverse - Unit monitors**

**Microsoft Windows Server DNS Forwarder IP Address Conditional Reverse NSLookup**

Tests a single target of the forwarder.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Accept Non Authoritative |  | true | | Host Name |  | $Target/Host/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder"]/DomainName$ | | Interval Seconds |  | 909 | | Query Timeout Seconds |  | 10 | | Query Type |  | PTR | | Script Timeout Seconds |  | 300 | | Server |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress"]/IPAddress$ | |  |
|  |  |  |

**Windows DNS Forwarder IP Address Unconditional**

**Windows DNS Forwarder IP Address Unconditional - Discoveries**

**Microsoft Windows Server DNS Forwarder Unconditional Discovery**

Discovers Unconditional Forwarders

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14520 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Forwarder IP Address Unconditional - Unit monitors**

**Microsoft Windows Server DNS Forwarder IP Address Unconditional NSLookup**

Tests a single target of the forwarder.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | False | | Accept Non Authoritative |  | true | | Host Name |  | www.microsoft.com. | | Interval Seconds |  | 907 | | Query Timeout Seconds |  | 10 | | Query Type |  | A | | Script Timeout Seconds |  | 300 | | Server |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Forwarder.IPAddress"]/IPAddress$ | |  |
|  |  |  |

**Windows DNS Forwarder Unconditional**

**Windows DNS Forwarder Unconditional - Discoveries**

**Microsoft Windows Server DNS Forwarder Unconditional Discovery**

Discovers Unconditional Forwarders

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14520 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Forwarder Unconditional - Unit monitors**

**Microsoft Windows Server DNS Forwarder Unconditional Localhost NSLookup**

Testing the forwarder using NSLookup performed against localhost.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | False | | Accept Non Authoritative |  | true | | Host Name |  | www.microsoft.com. | | Interval Seconds |  | 906 | | Query Timeout Seconds |  | 10 | | Query Type |  | A | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |

**Windows DNS Forwarder Unconditional - Aggregate monitors**

**Microsoft Windows Server DNS Forwarder Unconditional NSLookup**

Includes the results of both the tests performed against localhost and the tests performed against the forwarder's remote targets.

**Windows DNS Forwarder Unconditional - Dependency (rollup) monitors**

**Microsoft Windows Server DNS Forwarder Unconditional IP Addresses NSLookup**

Includes the results of NSLookup tests against all targets. Healthy if at least one target is healthy.

**Windows DNS Server**

**Windows DNS Server - Discoveries**

**Microsoft Windows Server DNS Server 2016 Group Populator**

Populates Generic group with DNS servers 2016.

**Microsoft Windows Server DNS Server Discovery**

Discovers Windows 2016 DNS Servers.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Frequency in seconds |  | 14400 | |  |
|  |  |  |

**Windows DNS Server 2016 Group Discovery**

Group Populator for Windows 2016 DNS Servers

**Microsoft Windows Server DNS Server Property Discovery**

Discovers additional properties of the DNS server

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14580 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Microsoft Windows Server DNS 2016 Objects Generic Group Populator**

Populates Generic group with DNS 2016 objects to show their alerts in generic alerts view.

**Microsoft Windows Server DNS 2016 Objects Group Populator**

Populates group with DNS 2016 objects to show their alerts in 2016 alerts view.

**Windows DNS Server - Unit monitors**

**Microsoft Windows Server DNS WMI Validation Test Two**

Tests the DNS WMI Provider

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Interval Seconds |  | 480 | | Sync Time |  | 00:04 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Sync Incomplete**

Indicates multiple 4013 events in a period.

**Microsoft Windows Server DNS Service Running**

Checks the running state of the DNS service

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Alert only if service startup type is automatic | This may only be set to 'true' or 'false'. If set to 'false', then alerts will be triggered no matter, what the startup type is set to. Default is 'true'. |  | |  |
|  |  |  |

**Microsoft Windows Server DNS Recursive Query Failure/sec**

Monitors Recursive Query Failure/sec

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Frequency |  | 180 | | Threshold |  | 500 | |  |
|  |  |  |

**Windows DNS Server 2016 Cache Limit Hit**

Monitors Configured Cache Size

**Windows DNS Server 2016 Detect Server Query Overload**

This monitor detects the overloaded DNS Server. If a DNS Server sees many queries in a given timeframe than a configured threshold, then this monitor will turn red.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Interval Seconds |  | 300 | | Queries Received Delta Critical Threshold |  | 50000 | | Queries Received Delta Warning Threshold |  | 30000 | | Sync Time |  |  | | Timeout Seconds |  | 240 | |  |
|  |  |  |

**Microsoft Windows Server DNS Server Logging Level**

This management pack works best when the DNS server is configured for full logging.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Interval Seconds |  | 921 | |  |
|  |  |  |

**Microsoft Windows Server DNS Auto configuration Failed**

Warning indicates a 2630 event. Health is reset by a 2631 event.

**Microsoft Windows Server DNS WMI Validation Test One**

Tests the DNS WMI Provider

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Interval Seconds |  | 480 | | Sync Time |  | 00:00 | |  |
|  |  |  |

**Microsoft Windows Server DNS Recursive TimeOut/sec**

Monitors Recursive TimeOut/sec

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Frequency |  | 180 | | Threshold |  | 500 | |  |
|  |  |  |

**Windows DNS Server - Aggregate monitors**

**Microsoft Windows Server DNS WMI Validation**

Alerts if the DNS WMI provider has failed multiple times in a row.

**Microsoft Windows Server DNS Server Listening IP Addresses**

Aggregates the state of all IP Addresses the server listens on. Alerts are generated at the individual IP Address.

**Windows DNS Server - Dependency (rollup) monitors**

**Microsoft Windows Server DNS Server Listening IP Address**

Rolls up the state of all IP Addresses the server listens on. Alerts are generated at the individual IP Address.

**Windows DNS Server - Rules (alerting)**

**Microsoft Windows Server DNS Configuration Update DS Peers Failure**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Invalid Listen Addresses**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Zone Transfer EDNS0 option is invalid**

Alert generating rule for DNS Server EDNS options.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS failed to load Server Level Policy**

Alert generating rule for Server Level Policies.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Open Partition Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Root Hints No Root Name Server**

Alert generating rule for Root Hints.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service Memory Warning**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Open Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Retryable Zone Operation Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration SingleLabelHostname**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Delete Error**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Root Hints Cache File Error**

Alert generating rule for Root Hints.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS RPC Initialize Failed**

Alert generating rule for Remote Procedure Calls.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Plug in Initialization Failed**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service File Error**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service Memory Error**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Open Socket For Address**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Load Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Boot File Not Found**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Zone Expiration**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service Socket Failure**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Domain Node Creation Error**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Secondary Requires Masters**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Invalid Zone Type**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server 2016 DNS Trust Point Deleted**

Alert generating rule for DNSSEC Trust Point

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service Thread Creation Failed**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Background Load Failure**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Reg Zone Creation Failed**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service Dependency Failed**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Enlistment Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS WINS Connector Initialize Failed**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server 2016 DNS Trust Anchors Zone Load Failed**

Alert generating rule for DNSSEC Trust Anchors Zone Loading

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server 2016 DNS Active Refresh Query Failed**

Alert generating rule for DNSSEC Active Refresh Query

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server 2016 DNS Zone Unsign Failed**

Alert generating rule for DNSSEC Zone Unsign

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Interface Error**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration File Error**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS failed to load Client Subnet**

Alert generating rule for Client Subnet.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Zone Creation Failed**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI FSMO Unavailable**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration No Forwarding Addresses**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Service Connection Error**

Alert generating rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Partition Create Error**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration File Warning**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Could Not Open Database**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Record Load Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Write Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI DNSAdmins Error**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Write Time out**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server 2016 DNS Invalid Trust Anchor**

Alert generating rule for DNSSEC Trust Anchor

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Security Interface Failed**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Registry Operation Failed**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration No Zone File**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration File Open Error**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI LDAP Time out**

Alert generating rule for Active Directory Integration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Update Listen Addresses**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Invalid Registry Setting**

Alert generating rule for Configuration.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows DNS Server - Rules (non-alerting)**

**Microsoft Windows Server DNS Collection UDP Response Sent/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Written to Database**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Queued**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Zone Transfer SOA Request Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR UDP Success Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Zone Transfer Request Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Secure Update Failure**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Total Response Sent/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Lookup Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection AXFR Request Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Total Query Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Caching Memory**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update No Operation**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection AXFR Success Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection UDP Response Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Total Query Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Written to Database/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection TCP Response Sent/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Recursive Query Failure/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Nbstat Memory**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Reverse Lookup Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection AXFR Response Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Recursive Send Time Outs**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection UDP Message Memory**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection TCP Query Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Reverse Response Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Reverse Lookup Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Unmatched Responses Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Recursive Queries**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR Success Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Time Outs**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Response Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR Request Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Zone Transfer Failure**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection TCP Message Memory**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Notify Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Database Node Memory**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Reverse Response Sent/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR Success Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR Request Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection TCP Query Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection AXFR Success Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Notify Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Zone Transfer Success**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update No Operation/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Rejected**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Dynamic Update Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Recursive Time Out/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection TCP Response Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Lookup Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Recursive Query Failure**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection WINS Response Sent/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Secure Update Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Total Response Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR TCP Success Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection AXFR Request Sent**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection UDP Query Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Secure Update Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Record Flow Memory**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection IXFR Response Received**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection UDP Query Received/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Microsoft Windows Server DNS Collection Recursive Queries/sec**

Performance counter collection rule for the DNS Service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Frequency |  | 600 | | Maximum Sample Separation | Maximum data samples skipped by Optimized Collection when data is within Tolerance | 1 | | Tolerance |  | 0 | |  |
|  |  |  |

**Windows DNS Server - Rules (non-alerting)**

**Microsoft Windows Server DNS Collection Warning**

Event collection rule for the DNS Service.

**Microsoft Windows Server DNS Collection Information**

Event collection rule for the DNS Service.

**Microsoft Windows Server DNS Collection Error**

Event collection rule for the DNS Service.

**Windows DNS Server 2016 Client Subnet**

This entity represents a Client Subnet in a Windows Server 2016 computer.

**Windows DNS Server 2016 Client Subnet - Discoveries**

**Microsoft Windows Server DNS Client Subnet Discovery**

Discovers Client Subnets.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14500 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Recursion Scope**

This entity represents a Recursion Scope in a Windows Server 2016 computer.

**Windows DNS Server 2016 Recursion Scope - Discoveries**

**Microsoft Windows Server DNS Recursion Scope Discovery**

Discovers Recursion Scopes.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14630 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Recursion Scope - Rules (alerting)**

**Microsoft Windows Server DNS failed to load Recursion Scope**

Alert generating rule for Recursion Scope.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows DNS Server 2016 Server Level Query Resolution Policy**

This entity represents a DNS Server Level Query Resolution Policy in a Windows Server 2016 computer.

**Windows DNS Server 2016 Server Level Query Resolution Policy - Discoveries**

**Microsoft Windows Server DNS Server Level Policy Discovery**

Discovers Server Level Policies.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14660 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Server Level Zone Transfer Policy**

This entity represents a DNS Server Level Zone Transfer Policy in a Windows Server 2016 computer.

**Windows DNS Server 2016 Server Level Zone Transfer Policy - Discoveries**

**Microsoft Windows Server DNS Server Level Policy Discovery**

Discovers Server Level Policies.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14660 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Zone Level Policy**

**Windows DNS Server 2016 Zone Level Policy - Rules (alerting)**

**Microsoft Windows Server DNS failed to load Zone Level Policy**

Alert generating rule for Zone Level Policies.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows DNS Server 2016 Zone Level Query Resolution Policy**

This entity represents a DNS Zone Level Query Resolution Policy in a Windows Server 2016 computer.

**Windows DNS Server 2016 Zone Level Query Resolution Policy - Discoveries**

**Microsoft Windows Server DNS Zone Level Policy Discovery**

Discovers Zone Level Policies.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14660 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Zone Level Zone Transfer Policy**

This entity represents a DNS Zone Level Zone Transfer Policy in a Windows Server 2016 computer.

**Windows DNS Server 2016 Zone Level Zone Transfer Policy - Discoveries**

**Microsoft Windows Server DNS Zone Level Policy Discovery**

Discovers Zone Level Policies.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14660 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Zone Scope**

This entity represents a Zone Scope in a Windows Server 2016 computer.

**Windows DNS Server 2016 Zone Scope - Discoveries**

**Microsoft Windows Server DNS Zone Scope Discovery**

Discovers Zone Scopes.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14610 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server 2016 Zone Scope - Rules (alerting)**

**Microsoft Windows Server DNS failed to write Zone Scope data**

Alert generating rule for Zone Scope.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS failed to load Zone Scope**

Alert generating rule for Zone Scope.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows DNS Server IP Address**

**Windows DNS Server IP Address - Discoveries**

**Microsoft Windows Server DNS Server Property Discovery**

Discovers additional properties of the DNS server

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14580 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Server IP Address - Unit monitors**

**Microsoft Windows Server DNS IP Address NSLookup**

Tests each IP address the server is bound to

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Accept Non Authoritative |  | true | | Host Name |  | 127.0.0.1 | | Interval Seconds |  | 901 | | Query Timeout Seconds |  | 10 | | Query Type |  | PTR | | Script Timeout Seconds |  | 300 | | Server |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Server.IPAddress"]/IPAddress$ | |  |
|  |  |  |

**Windows DNS Zone**

**Windows DNS Zone - Discoveries**

**Signed Zone Group Discovery**

A group populator that contains DNS Signed Zones running on Windows version 10.0.4.0 (Windows 2016)

**Microsoft Windows Server DNS 2016 Objects Generic Group Populator**

Populates Generic group with DNS 2016 objects to show their alerts in generic alerts view.

**DNS Zone Is Signed Property Discovery**

This workflow discovers the DNS Zone Is Signed Property on Windows version 10.0.4.0 (Windows 2016)

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Interval seconds | How frequently (in seconds) the value should be sampled. | 15000 | | Sync Time | Synchronization time for the module execution. |  | | Timeout Seconds | How much time (in seconds) to wait for the module to finish execution. | 300 | |  |
|  |  |  |

**Microsoft Windows Server DNS 2016 Objects Group Populator**

Populates group with DNS 2016 objects to show their alerts in 2016 alerts view.

**Microsoft Windows Server DNS Zone Discovery**

Discovers zones on the local DNS server

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14640 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Zone - Unit monitors**

**Windows DNS Server 2016 Detect Unused Zone**

This monitor detects the unused Zones on a DNS Server. If a Zone does not see any activity for a prolonged period, this monitor will alert a warning.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Interval Seconds |  | 86400 | | Sync Time |  |  | | Timeout Seconds |  | 240 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Key Master Status Monitor**

This monitor checks the Key Master Status of the Zone in Windows Server 2016 computer.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Interval seconds | How frequently (in seconds) the value should be sampled. | 900 | | Sync Time | Synchronization time for the module execution. |  | | Timeout Seconds | How much time (in seconds) to wait for the module to finish execution. | 300 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Key Rollover Status Monitor**

This monitor checks the Key Rollover Status of the Zone in Windows Server 2016 computer.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Interval seconds | How frequently (in seconds) the value should be sampled. | 900 | | Sync Time | Synchronization time for the module execution. |  | | Timeout Seconds | How much time (in seconds) to wait for the module to finish execution. | 300 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Is NOT Signed Monitor**

This monitor checks if a Zone is signed in Windows Server 2016 computer.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Interval seconds | How frequently (in seconds) the value should be sampled. | 900 | | Sync Time | Synchronization time for the module execution. |  | | Timeout Seconds | How much time (in seconds) to wait for the module to finish execution. | 300 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Name Resolution Queries Errors Monitor**

This monitor checks the performance data for Name Resolution Queries in Windows Server 2016 computer.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Error Query Failure Threshold | The Error Query Failure Threshold value to consider in the monitor type. | 10 | | Error Query Name Failure Threshold | The Error Query Name Failure Threshold value to consider in the monitor type. | 10 | | Interval seconds | How frequently (in seconds) the value should be sampled. | 900 | | Sync Time | Synchronization time for the module execution. |  | | Timeout Seconds | How much time (in seconds) to wait for the module to finish execution. | 300 | | Warning Query Failure Threshold | The Warning Query Failure Threshold value to consider in the monitor type. | 0 | | Warning Query Name Failure Threshold | The Warning Query Name Failure Threshold value to consider in the monitor type. | 0 | |  |
|  |  |  |

**Windows DNS Server 2016 Detect Zone Query Overload**

This monitor detects the overloaded Zones on a DNS Server. If a Zone sees many queries in a given timeframe than a configured threshold, then this monitor will turn red.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Interval Seconds |  | 300 | | Queries Received Delta Critical Threshold |  | 30000 | | Queries Received Delta Warning Threshold |  | 10000 | | Sync Time |  |  | | Timeout Seconds |  | 240 | |  |
|  |  |  |

**Microsoft Windows Server DNS Zone State**

Checks the zone state with WMI

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Interval Seconds |  | 920 | |  |
|  |  |  |

**Microsoft Windows Server DNS Zone NSLookup**

Tests the zone on localhost with NSLookup

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | True | | Accept Non Authoritative |  | true | | Host Name |  | $Target/Property[Type="Microsoft.Windows.DNSServer.2016.Zone"]/ZoneName$. | | Interval Seconds |  | 902 | | Query Timeout Seconds |  | 10 | | Query Type |  | NS | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |

**Windows DNS 2016 DNSSEC Denial Of Existence - Zone Security Monitor**

This Monitor track whether the signed zone is NSEC3 enabled or plain NSEC is being used for secure denial of existence. Using only NSEC for secure denial of existence can cause zone enumeration. Disabled by default.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | False | | Interval Seconds |  | 900 | | Sync Time |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Zone - Dependency (rollup) monitors**

**Microsoft Windows Server DNS Monitoring Zone Depends On WINS Performance**

Rolls up WINS integration

**Microsoft Windows Server DNS Monitoring Zone Depends On WINS Configuration**

Rolls up WINS integration

**Microsoft Windows Server DNS Monitoring Zone Depends On WINS Security**

Rolls up WINS integration

**Microsoft Windows Server DNS Monitoring Zone Depends On WINS Availability**

Rolls up WINS integration

**Windows DNS Zone - Rules (alerting)**

**Windows 2016 DNS SEC - Zone Rollover Failure**

This rule checks for Rollover failure in zone in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Update Failure**

This rule checks for update failure in zone in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Load Sign Failure**

This rule checks for Load Sign failure in zone in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Error while signing Zone**

This rule checks for errors while signing zone in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Signature Refresh Failure**

This rule checks for Signature Refresh failure in zone in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Resign Failure**

This rule checks for Resign Zone failure in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows 2016 DNS SEC - Zone Replication Failure**

This rule checks for Replication failure in zone in Windows Server 2016

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows DNS Zone - Rules (alerting)**

**Microsoft Windows Server DNS Zone Transfer Aborted**

Alert generating rule for a zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server 2016 DNS DS AutoUpdate Aborted**

Alert generating rule for DNSSEC DS AutoUpdate

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Zone Transfer Failed**

Alert generating rule for a zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS Zone Incremental Transfer Failed**

Alert generating rule for a zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS Configuration Zone Bad Primary Server**

Alert generating rule for a zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 1 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Zone Operation Failed**

Alert generating rule for a zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows Microsoft Windows Server 2016 DNS DS Sign Failed**

Alert generating rule for DNSSEC DS Sign

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS failed to load Zone Scopes**

Alert generating rule for Zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Microsoft Windows Server DNS ADI Zone Conflict**

Alert generating rule for a zone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | Yes | | Priority |  | 1 | | Severity |  | 2 | |  |
|  |  |  |

**Windows DNS Zone - Rules (non-alerting)**

**Windows DNS Server 2016 Queries Failure Performance Collection Rule**

Collects Queries Failure for all record types on Zone

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Interval Seconds |  | 900 | | Timeout Seconds |  | 240 | |  |
|  |  |  |

**Windows DNS Server 2016 Number Of Queries Performance Collection Rule**

Collects Number Of Queries Received for all record types on Zone

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Interval Seconds |  | 900 | | Timeout Seconds |  | 240 | |  |
|  |  |  |

**Windows DNS Server 2016 Queries Name Error Performance Collection Rule**

Collects Queries Name Errors for all record types on Zone

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Generate Alerts |  | False | | Interval Seconds |  | 900 | | Timeout Seconds |  | 240 | |  |
|  |  |  |

**Windows DNS Zone Global**

**Windows DNS Zone Global - Discoveries**

**Microsoft Windows Server DNS Zone Discovery**

Discovers zones on the local DNS server

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14640 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Zone Global - Unit monitors**

**Microsoft Windows Server DNS GlobalNames NSLookup**

Disabled by default.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Accept Non Authoritative |  | true | | Host Name |  | PlaceHolder | | Interval Seconds |  | 900 | | Query Timeout Seconds |  | 10 | | Query Type |  | CNAME | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |

**Windows DNS Zone WINS Connector**

**Windows DNS Zone WINS Connector - Discoveries**

**Microsoft Windows Server DNS WINS Discovery**

Discovers WINS integrated zones

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14760 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Zone WINS Connector - Unit monitors**

**Microsoft Windows Server DNS WINS NSLookup**

Disabled by default

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Accept Non Authoritative |  | true | | Host Name |  | PlaceHolder | | Interval Seconds |  | 900 | | Query Timeout Seconds |  | 10 | | Query Type |  | A | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |

**Windows DNS Zone WINS-R Connector**

**Windows DNS Zone WINS-R Connector - Discoveries**

**Microsoft Windows Server DNS WINS Discovery**

Discovers WINS integrated zones

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | Yes | | Interval in seconds |  | 14760 | | Time at which to do initial discovery |  |  | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Windows DNS Zone WINS-R Connector - Unit monitors**

**Microsoft Windows Server DNS WINSR NSLookup**

Disabled by default

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled |  | No | | Generate Alerts |  | True | | Accept Non Authoritative |  | true | | Host Name |  | 4.3.2.1.in-addr.arpa | | Interval Seconds |  | 900 | | Query Timeout Seconds |  | 10 | | Query Type |  | PTR | | Script Timeout Seconds |  | 300 | | Server |  | 127.0.0.1 | |  |
|  |  |  |