

AIX Management Pack Guide for Operations Manager 2007 R2

Microsoft Corporation

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AIX Management Pack Guide

The AIX management pack helps you manage your AIX computers as part of your Microsoft System Center Operations Manager 2007 R2 infrastructure.

The AIX management pack alerts you to problems with components such as agents and services so that you can continuously monitor the servers and clients on which your business depends.

Document Version

This guide was written based on the 6.1.7000.296 version of the AIX management pack.

Revision History

|  |  |
| --- | --- |
| Date | Changes |
| September 2009 | Original release of this guide. |
| December 2009 | Update to support Cross Platform ACS |
| September 2010 | Update to include Cumulative Update 3 of System Center Operations Manager 2007 R2 |
| April 2012 | Update to include Cumulative Update 6 of System Center Operations Manager 2007 R2 |

In This Guide

[What's New](#zfe48a9a40f8e4e388f45f0a24c018e85)

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[AIX 6.1](#z16809a4592514388866c00412f361560)

[AIX 7](#AIX7)

What's New

The following features are new in the April 2012 release of the AIX management packs:

* Support for AIX 7 agents has been added with the AIX 7 management pack.

The following features are new in the September 2010 release of the AIX management packs:

 A new overrideable property has been added for all logfile rules.  The new property enables generating individual alerts for each logfile entry.  The default behavior is that multiple matching logfile entries create only a single alert.  However, the new property, IndividualAlerts, can be set to “true” to enable the creation of a separate alert for each logfile entry.   Also, note that the Suppression option may need to be removed from the logfile rule in order to fully achieve individual alerts for each logfile entry.

 The Ping implementation has changed from using WMI to the ping.exe. This provides clearer output.

 Discovery intervals have changed to 14400 seconds. Also, the cross platform discoveries now use the discovery scheduler.

 Added object filters to linked reports to make it easier to populate the input parameters.

The following issues are fixed in the February 2010 release of the AIX management packs:

 When the Operations Manager Management server fails over to another Management server, alerts in the failed server’s log files may be re-generated and CPU load may increase significantly.

 The Operations Manager Management server fails to replace display string parameter while creating the alert for monitor state change.

The following issues are fixed in the December 2009 release of the AIX management packs:

 Add the TimeZoneOffset property to the Unix.Computer object type and populate it from the SCX\_OperatingSystem object in discovery objects.

 Enable the discovery timer and change the timer from 60 to 14400 seconds.

Introduction to the AIX Management Pack

The AIX management pack provides both proactive and reactive monitoring of the AIX 5.3, 6.1, and 7 operating systems. It monitors AIX components such as processes, resources, and server agents.

The monitoring provided by this management pack includes availability and configuration monitoring, performance data collection, and default thresholds. You can integrate the monitoring of AIX components into your service-oriented monitoring scenarios.

In addition to health monitoring capabilities, this management pack includes reports, diagnostics, tasks, and views that enable near real-time diagnosis and resolution of detected issues.

Getting the Latest Management Pack and Documentation

You can find the AIX management pack in the [System Center Operations Manager 2007 Catalog](http://go.microsoft.com/fwlink/?LinkId=82105) (http://go.microsoft.com/fwlink/?LinkId=82105).

Supported Configurations

In general, the supported configurations are outlined in [Operations Manager 2007 R2 Supported Configurations](http://go.microsoft.com/fwlink/?LinkId=90676) (http://go.microsoft.com/fwlink/?LinkId=90676).

We recommend that you monitor no more than 50 processes and 150 files per agent to avoid spikes in CPU usage that might affect the performance of monitored computers.

Supported Versions of AIX

The following table details the supported AIX operating systems by the management pack:

|  |  |  |
| --- | --- | --- |
| Management Pack File | Operating System Name | Power Processor |
| Microsoft.AIX.5.3.mp | AIX 5.3 Operating System | Yes |
| Microsoft.AIX.6.1.mp | AIX 6.1 Operating System | Yes |
| Microsoft.AIX.7.mp | AIX 7 Operating System | Yes |

Getting Started

In this topic:

[Before You Import the Management Pack](#z8427355935ce49f08593a79802b8539e)

[How to Import the AIX Management Pack](#z28ed5ca6be1c48d48a8698205f9e312c)

[Create a New Management Pack for Customizations](#z1b39b5b1a07b4ba793ab1eab80b31a31)

You can use the AIX management pack to monitor processes and files on an AIX operating system. For more information about monitoring and deploying agents, see the [Deploying UNIX or Linux Agents](http://go.microsoft.com/fwlink/?LinkId=146211) (http://go.microsoft.com/fwlink/?LinkId=146211) topic in Microsoft System Center Operations Manager 2007 online library.

Before You Import the Management Pack

Before you import the AIX management pack files, you must configure a cross-platform Run As Account. For more information about creating a Run As Account, see the [Configuring a Cross Platform Run As Account](http://go.microsoft.com/fwlink/?LinkId=160348) (http://go.microsoft.com/fwlink/?LinkId=160348) topic in Microsoft System Center Operations Manager 2007 online library.

Files in This Management Pack

The following table describes the files that are included in this management pack:

|  |  |  |
| --- | --- | --- |
| File name | Display name | Description |
| Microsoft.AIX.Library.mp | AIX Operating System Library | AIX Core Library |
| Microsoft.AIX.5.3.mp | AIX 5.3 Operating System Library | Support for AIX 5.3 Operating System |
| Microsoft.AIX.6.1.mp | AIX 6.1 Operating System Library | Support for AIX 6.1 Operating System |
| Microsoft.AIX.7.mp | AIX 7 Operating System Library | Suport for AIX 7 Operating System |

How to Import the AIX Management Pack

For instructions about importing a management pack, see [How to Import a Management Pack in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=142351) (http://go.microsoft.com/fwlink/?LinkId=142351).

After you import the AIX management pack, create a new management pack in which you store overrides and other customizations.

Create 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, Microsoft System Center Operations Manager 2007 R2 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 that 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 the 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 having 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 it 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 [Management Pack Formats](http://go.microsoft.com/fwlink/?LinkId=108355) (http://go.microsoft.com/fwlink/?LinkId=108355). For more information about management pack customizations and the default management pack, see [About Management Packs in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108356) (http://go.microsoft.com/fwlink/?LinkId=108356).

To Create a New Management Pack for Customizations

|  |
| --- |
| 1. Open the Operations console, and then click the Administration button.  2. Right-click Management Packs, and then click Create New Management Pack.  3. Enter a name (for example, AIX Customizations), and then click Next.  4. Click Create. |

Understanding Management Pack Operations

This section contains the following topics:

[Objects the Management Pack Discovers](#z3383ffceede44652a9ced51778d64f7c)

[Viewing Information in the Operations Manager](#za23bc135a4344fc7b04f8a557de5d851)

[How to View Management Pack Details](#zc65b292ddc9146fc804f4e427b7434da)

[How to Display All Management Pack Rules](#z8238c43026cd417484352f2ba896f30e)

[How to Display Monitors for a Management Pack](#z2c2c5d54028246ee980f4628a13f1561)

[How to Display Monitor Thresholds](#z67cda5ca937e41e883b899a53061d7f9)

[How to Display Overrides for a Management Pack](#z5c41f5852b4848d2ae7735c41c880050)

[How to Display Performance Collection Rules](#z9ed09fc51b2e4e6f93da4e1757d390b9)

[Enabling Performance Threshold Rules](#zc0e19c9297574c9790808bd253f90eb8)

[Tuning Performance Threshold Rules](#z8d1a27277e5e48e4897dd455e62bd1d0)

Objects the Management Pack Discovers

For information about discovering objects, see the [Object Discoveries in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108505) topic in Microsoft System Center Operations Manager 2007 online library (http://go.microsoft.com/fwlink/?LinkId=108505).

To use an override to change the setting for automatic discovery

|  |
| --- |
| 1. In the Authoring pane, expand Management Pack Objects, and then click Object Discoveries.  2. On the Operations Manager toolbar, click Scope, and then filter the objects that appear in the details pane to include only Microsoft SQL Server objects.  3. In the Operations Manager toolbar, click Change Scope to filter the list of objects.  4. On the Operations Manager toolbar, click Overrides, click Override the Object Discovery, and then click For all objects of type: AIX.  5. In the Override Properties dialog box, select the Override box for the Enabled parameter.  6. Under Management Pack, click New to create an unsealed version of the management pack, and then click OK, or select an unsealed management pack that you previously created in which to save this override. As a best practice, you should not save overrides to the default management pack. |

After you change the override setting, the object type will be automatically discovered and will appear in the Monitoring pane under AIX.

Viewing Information in the Operations Manager

You can see a high-level view of object types within an hour of deploying the AIX management pack. You can speed up this process by overriding the discovery of some objects.

A view can contain a lengthy list of objects. To find a specific object or group of objects, you can use the Scope, Search, and Find buttons on the Operations Manager toolbar. For more information, see the [How to Manage Monitoring Data Using Scope, Search, and Find](http://go.microsoft.com/fwlink/?LinkId=91983)  (http://go.microsoft.com/fwlink/?LinkId=91983) topic. The following views are listed in the AIX node within the Unix/Linux Servers node found on the Monitoring pane of the Operations console.

 Logical Disk State

 Network Adapter State

 Operating System Performance

 Physical Disk State

 AIX Computers Diagram

 AIX Server State

 Health

 Performance

How to View Management Pack Details

For more information about a monitor and the associated override values, follow the steps below.

To view knowledge for a monitor

|  |
| --- |
| 1. In the Operations console, click the Authoring button.  2. Expand Management Pack Objects, and then click Monitors.  3. In the Monitors pane, expand the targets until you reach the monitor level. Alternatively, you can use the Search box to find a particular monitor.  4. Click the monitor, and in the Monitors pane, click View knowledge.  5. Click the Product Knowledge tab. |

How to Display All Management Pack Rules

Follow the procedure below to display a list of rules for the management packs that you imported. The list of rules can be viewed in Microsoft Office Excel.

To display management pack rules

|  |
| --- |
| 1. In your management server, click Programs, and then click System Center.  2. Click Command Shell.  3. In the Command Shell window, type the following command:  get-rule | select-object @{Name="MP";Expression={ foreach-object {$\_.GetManagementPack().DisplayName }}},DisplayName | sort-object -property MP | export-csv "c:\rules.csv"  4. A comma-separated value (.csv) file is created. The .csv file can be opened in Office Excel.  Note  In Excel, you might be required to specify that the .csv file is a text file. |

How to Display Monitors for a Management Pack

To display a list of outputs for a management pack's monitors and overrides by using the Command Shell, follow the procedure below.

To display monitors for a management pack

|  |
| --- |
| 1. In the Command Shell, type the following command:  get-monitor -managementPack name.mp | export-csv filename  2. A comma-separated values (.csv) file is created. The .csv file can be opened in Microsoft Office Excel.  Note  In Office Excel, you might be required to specify that the .csv file is a text file. |

For example, the following command retrieves data for the monitors that are associated with one of the core management packs:

get-monitor -managementPack System.Health.Library.mp | export-csv "C:\monitors.csv"

How to Display Monitor Thresholds

To display monitor thresholds, use the script described in this section. This script works for the majority of monitors. It creates a comma-separated values (.csv) file that includes the following columns and that can be viewed by using Microsoft Office Excel.

|  |  |
| --- | --- |
| Column | Description |
| Type | The type of objects the monitor is targeted to. |
| DisplayName | The display name of the monitor. |
| Threshold | The threshold used by the monitor. |
| AlertOnState | Determines whether the monitor generates an alert when the state changes. |
| AutoResolveAlert | Determines whether the generated alert will be automatically resolved when the monitor state changes back to green. |
| AlertSeverity | The severity of the generated alert. |

Run the following script to create the .csv file that displays the monitor thresholds:

function GetThreshold ([String] $configuration)

{

$config = [xml] ("<config>" + $configuration + "</config>")

$threshold = $config.Config.Threshold

if($threshold -eq $null)

{

$threshold = $config.Config.MemoryThreshold

}

if($threshold -eq $null)

{

$threshold = $config.Config.CPUPercentageThreshold

}

if($threshold -eq $null)

{

if($config.Config.Threshold1 -ne $null -and $config.Config.Threshold2 -ne $null)

{

$threshold = "first threshold is: " + $config.Config.Threshold1 + " second threshold is: " + $config.Config.Threshold2

}

}

if($threshold -eq $null)

{

if($config.Config.ThresholdWarnSec -ne $null -and $config.Config.ThresholdErrorSec -ne $null)

{

$threshold = "warning threshold is: " + $config.Config.ThresholdWarnSec + " error threshold is: " + $config.Config.ThresholdErrorSec

}

}

if($threshold -eq $null)

{

if($config.Config.LearningAndBaseliningSettings -ne $null)

{

$threshold = "no threshold (baseline monitor)"

}

}

return $threshold

}

$perfMonitors = get-monitor -Criteria:"IsUnitMonitor=1 and Category='PerformanceHealth'"

$perfMonitors | select-object @{name="Target";expression={foreach-object {(Get-MonitoringClass -Id:$\_.Target.Id).DisplayName}}},DisplayName, @{name="Threshold";expression={foreach-object {GetThreshold $\_.Configuration}}}, @{name="AlertOnState";expression={foreach-object {$\_.AlertSettings.AlertOnState}}}, @{name="AutoResolveAlert";expression={foreach-object {$\_.AlertSettings.AutoResolve}}}, @{name="AlertSeverity";expression={foreach-object {$\_.AlertSettings.AlertSeverity}}} | sort Target, DisplayName | export-csv "c:\monitor\_thresholds.csv"

How to Display Overrides for a Management Pack

To display overrides for a management pack, use the following procedure.

To display overrides for a management pack

|  |
| --- |
| 1. In the Command Shell, type the following command:  get-override -managementPack name.mp | export-csv filename  2. A .csv file is created. The .csv file can be opened in Microsoft Office Excel.  Note  In Excel, you might be required to specify that the .csv file is a text file. |

For example, this command displays the overrides for one of the core management packs:

get-override -managementPack Microsoft.SystemCenter.OperationsManager.Internal.mp | export-csv "c:\overrides.csv"

How to Display Performance Collection Rules

To display performance collection rules, use the script in this section. This script works for the majority of monitors. It creates a comma-separated values (.csv) file that includes the following columns and can be viewed by using Microsoft Office Excel.

|  |  |
| --- | --- |
| Column | Description |
| WriteAction | Contains information about where the performance counter is written. |
| WriteToDB or CollectionPerformanceData | Writes to the Operations Manager database. |
| WriteToDW or CollectPerfDataWarehouse | Writes to the data warehouse. |
| WC | Stores baseline data for a performance counter into the operational database. |

To display the performance rules present in the management group, run the following script:

function GetPerfCounterName ([String] $configuration)

{

$config = [xml] ("<config>" + $configuration + "</config>")

return ($config.Config.ObjectName + "\" + $config.Config.CounterName)

}

function GetFrequency ([String] $configuration)

{

$config = [xml] ("<config>" + $configuration + "</config>")

$frequency = $config.Config.Frequency;

if($frequency -eq $null)

{

$frequency = $config.Config.IntervalSeconds;

}

return ($frequency)

}

function GetDisplayName($performanceRule)

{

if($performanceRule.DisplayName -eq $null)

{

return ($performanceRule.Name);

}

else

{

return ($performanceRule.DisplayName);

}

}

function GetWriteActionNames($performanceRule)

{

$writeActions = "";

foreach($writeAction in $performanceRule.WriteActionCollection)

{

$writeActions += " " + $writeAction.Name;

}

return ($writeActions);

}

$perf\_collection\_rules = get-rule -criteria:"Category='PerformanceCollection'"

$perf\_collection\_rules | select-object @{name="Type";expression={foreach-object {(Get-MonitoringClass -id:$\_.Target.Id).DisplayName}}},@{name="RuleDisplayName";expression={foreach-object {GetDisplayName $\_}}} ,@{name="CounterName";expression={foreach-object {GetPerfCounterName $\_.DataSourceCollection[0].Configuration}}},@{name="Frequency";expression={foreach-object {GetFrequency $\_.DataSourceCollection[0].Configuration}}},@{name="WriteActions";expression={foreach-object {GetWriteActionNames $\_}}} | sort Type,RuleDisplayName,CounterName | export-csv "c:\perf\_collection\_rules.csv"

Enabling Performance Threshold Rules

It is very difficult to deliver a performance threshold rule that is suitable for most environments; therefore, most performance threshold rules are initially disabled. Before you enable a performance threshold rule, you should determine a baseline for the relevant performance counters, and then apply the appropriate overrides to define and enable a suitable threshold for your environment.

Tuning Performance Threshold Rules

You should evaluate the rules that evaluate thresholds to determine whether the default thresholds are appropriate for your environment. If a default threshold is not appropriate for your environment, you should establish a baseline for the relevant performance counters, and then adjust the threshold by overriding them.

AIX 5.3

The details for AIX 5.3 platform-dependent definitions of discoveries, rules, alerts, monitors, diagnostics, recoveries, and reports are listed below.

[Discoveries](#z3cd395e9cd244e4095c838d19f89dbf6)

[Rules](#zf061e920507b45b5bae8bd2a02451c3f)

[Monitors](#zcc3e9076597045ceba73d1967ff0c5d2)

[Diagnostics](#z7b6b16124d724d988a311b7a9ceff6ae)

[Recoveries](#zeaf40de7ade04b949388854287fce61d)

[Reports](#zeb2b567deed74ebabbb5245683593ff5)

Discoveries

Details for AIX 5.3 discoveries are described below.

AIX 5.3 Discovery

|  |  |  |  |
| --- | --- | --- | --- |
| Discovery Name | Discovery ID | Default  Interval  (seconds) | Enabled  by Default |
| Populate AIX 5.3 Computer Group | Microsoft.AIX.5.3.ComputerGroup.Discovery | N/A | Yes |
| Discover AIX 5.3 PPC Supported Agent Information | Microsoft.AIX.5.3.PPC.Discovery | 14400 | Yes |
| Discover AIX 5.3 Computer | Microsoft.AIX.5.3.Computer.Discovery | 14400 | Yes |
| Discover AIX 5.3 Operating System | Microsoft.AIX.5.3.OperatingSystem.Discovery | 14400 | Yes |
| Discover AIX 5.3 Processor | Microsoft.AIX.5.3.Processor.Discovery | 14400 | No |
| Discover AIX 5.3 Physical Disks | Microsoft.AIX.5.3.PhysicalDisk.Discovery | 14400 | No |
| Discover AIX 5.3 Logical Disks | Microsoft.AIX.5.3.LogicalDisk.Discovery | 14400 | True |
| Discover AIX 5.3 Network Adapters | Microsoft.AIX.5.3.NetworkAdapter.Discovery | 14400 | Yes |

Rules

The data collection rules for AIX 5.3 are described below. All rules are on and remoteable by default or are documented as disabled.

AIX 5.3 Operating System Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Total Processor % Processor Time (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. TotalPercentProcessorTime.Collection | 300 |
| Total Processor % Idle Time (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. TotalPercentIdleTime.Collection | 300 |
| Total Processor % User Time (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. TotalPercentUserTime.Collection | 300 |
| Total Processor % Privileged Time (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. TotalPercentPrivilegedTime.Collection | 300 |
| Total Processor % IO Wait Time (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. TotalPercentIOWaitTime.Collection | 300 |
| Available MBytes (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. AvailableMBytes.Collection | 300 |
| % Available Memory (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PercentAvailableMemory.Collection | 300 |
| Used Memory MBytes (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. UsedMemoryMBytes.Collection | 300 |
| % Used Memory (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PercentUsedMemory.Collection | 300 |
| Pages/sec (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PagesPerSecond.Collection | 300 |
| Page Reads/sec (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PageReadsPerSecond.Collection | 300 |
| Page Writes/sec (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PageWritesPerSecond.Collection | 300 |
| Available MBytes (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. AvailableMBytesSwap.Collection | 300 |
| % Available Swap Space (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PercentAvailableSwap.Collection | 300 |
| Used MBytes (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. UsedMBytesSwap.Collection | 300 |
| % Used Swap Space (AIX 5.3) | Microsoft.AIX.5.3.OperatingSystem. PercentUsedSwapSpace.Collection | 300 |

AIX 5.3 Processor Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Processor % Time (AIX 5.3) | Microsoft.AIX.5.3.Processor. PercentProcessorTime.Collection | 300 |
| Processor % Idle Time (AIX 5.3) | Microsoft.AIX.5.3.Processor. PercentIdleTime.Collection | 300 |
| Processor % User Time (AIX 5.3) | Microsoft.AIX.5.3.Processor. PercentUserTime.Collection | 300 |
| Processor % Privileged Time (AIX 5.3) | Microsoft.AIX.5.3.Processor. PercentPrivilegedTime.Collection | 300 |
| Processor % IO Time (AIX 5.3) | Microsoft.AIX.5.3.Processor. TotalPercentIOWaitTime.Collection | 300 |

AIX 5.3 Logical Disk Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Free Megabytes (AIX 5.3) | Microsoft.AIX.5.3.LogicalDisk. FreeMegabytes.Collection | 300 |
| Used Megabytes (AIX 5.3) | Microsoft.AIX.5.3.LogicalDisk. UsedMegabytes.Collection | 300 |
| % Free Space (AIX 5.3) | Microsoft.AIX.5.3.LogicalDisk. PercentFreeSpace.Collection | 300 |
| % Used Space (AIX 5.3) | Microsoft.AIX.5.3.LogicalDisk. PercentUsedSpace.Collection | 300 |

AIX 5.3 Physical Disk Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Disk Bytes/sec (AIX 5.3) | Microsoft.AIX.5.3.PhysicalDisk. DiskBytesPerSecond.Collection | 300 |
| Avg. Disk sec/Transfer (AIX 5.3) | Microsoft.AIX.5.3.PhysicalDisk. AverageDiskTransferTime.Collection | 300 |

AIX 5.3 Network Adapter Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Byte Received/Sec (AIX 5.3) | Microsoft.AIX.5.3.NetworkAdapter. BytesReceivedPerSec.Collection | 300 |
| Byte Sent/Sec (AIX 5.3) | Microsoft.AIX.5.3.NetworkAdapter. BytesSentPerSec.Collection | 300 |
| Bytes Total/Sec (AIX 5.3) | Microsoft.AIX.5.3.NetworkAdapter. BytesTotalSec.Collection | 300 |

AIX 5.3 Log File Data Collection Rules

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) | Status |
| SU Command Success Alert Rule | Microsoft.AIX.5.3.LogFile. Syslog.SU.Command.Root.Success.Alert | N/A | Disabled |
| SU Command Failure Alert Rule | Microsoft.AIX.5.3.LogFile. Syslog.SU.Command.Root.Failure.Alert | N/A | Disabled |
| SSH Success Alert Rule | Microsoft.AIX.5.3.LogFile. Syslog.SSHAuth.Root.Success.Alert | N/A | Disabled |
| SSH Failure Alert Rule | Microsoft.AIX.5.3.LogFile. Syslog.SSHAuth.Root.Failure.Alert | N/A | Disabled |
| Syslog Kernel Critical Alert Rule | Microsoft.AIX.5.3.LogFile.Syslog.Kernel.Critical.Alert | N/A | Disabled |
| Syslog Auth Critical Alert Rule | Microsoft.AIX.5.3.LogFile.Syslog.Auth.Critical.Alert | N/A | Disabled |
| Syslog Critical Alert Rule | Microsoft.AIX.5.3.LogFile.Syslog.Critical.Alert | N/A | Disabled |
| Kernel Panic Alert Rule | Microsoft.AIX.5.3.LogFile.Syslog.Kernel.Panic.Alert | N/A | Disabled |

Monitors

Details for AIX 5.3 monitors are described below. All listed monitors are public, enabled, and set to auto resolve.

AIX 5.3 Operating System Monitors

|  |  |  |  |
| --- | --- | --- | --- |
| Monitor Name | ID Name | Interval  (Seconds) | Threshold |
| Operating System Total Percent Processor Time | Microsoft.AIX.5.3.OperatingSystem.TotalPercentProcessorTime.Monitor | 300 | 95 |
| Operating System Available MBytes | Microsoft.AIX.5.3.OperatingSystem.AvailableMBytes.Monitor | 300 | 2.5 |
| OperatingSystem Available MBytes Swap | Microsoft.AIX.5.3.OperatingSystem.AvailableMBytesSwap.Monitor | 300 | 2.5 |
| Processor Percent Processor Time | Microsoft.AIX.5.3.Processor.PercentProcessorTime.Monitor | 300 | 95 |
| Logical Disk Health | Microsoft.AIX.5.3.LogicalDisk.DiskHealth.Monitor | 300 | Expected Status = True |
| Logical Disk % Free Space | Microsoft.AIX.5.3.LogicalDisk.PercentFreeSpace.Monitor | 300 | 5 |
| Physical Disk Health | Microsoft.AIX.5.3.PhysicalDisk.DiskHealth.Monitor | 300 | Expected Status = True |
| Physical Disk Avg. Disk sec/Transfer | Microsoft.AIX.5.3.PhysicalDisk.AverageDiskTransferTime.Monitor | 300 | 0.5 |
| Network Adapter Health | Microsoft.AIX.5.3.NetworkAdapter.Health.Monitor | 300 | Expected Status = 2 |
| Process Cron Service Health | Microsoft.AIX.5.3.Process.Cron.Monitor | 300 | N/A |
| Process Syslog Service Health | Microsoft.AIX.5.3.Process.Syslog.Monitor | 300 | N/A |
| Process SSH Service Health | Microsoft.AIX.5.3.Process.Ssh.Monitor | 300 | N/A |
| Process Rpcstat Service Health | Microsoft.AIX.5.3.Process.Rpcstat.Monitor | 300 | N/A |
| Process Portmap Service Health | Microsoft.AIX.5.3.Process.Portmap.Monitor | 300 | N/A |

Diagnostics

AIX 5.3 diagnostics are described in detail below. All diagnostics are public and enabled by default.

AIX 5.3 Operating System Diagnostics

|  |  |  |  |
| --- | --- | --- | --- |
| Diagnostic Name | Diagnostic ID | Comment | Timeout  (Seconds) |
| Total Percent Processor Time Top Processes Diagnostic | Microsoft.AIX.5.3.OperatingSystem.TotalPercentProcessorTime.TopProcesses.Diagnostic | In response to High CPU Utilization, Return top Consumers | 300 |
| Percent Processor Time Top Processes Diagnostic | Microsoft.AIX.5.3.Processor.PercentProcessorTime.TopProcesses.Diagnostic | In response to High CPU Utilization, Return top Consumers | 300 |
| Available MBytes Top Processes Diagnostic | Microsoft.AIX.5.3.OperatingSystem.AvailableMBytes.TopProcesses.Diagnostic | In response to High Memory Utilization, Return top Consumers | 300 |
| Available MBytes Swap Top Processes Diagnostic | Microsoft.AIX.5.3.OperatingSystem.AvailableMBytesSwap.TopProcesses.Diagnostic | In response to High Memory Utilization, Return top Consumers | 300 |
| Logical Disk Health Diagnostic | Microsoft.AIX.5.3.LogicalDisk.DiskHealth.Diagnostic | -- | 300 |
| Cron status diagnostic | Microsoft.AIX.5.3.Process.Cron.Diagnostic | -- | 300 |
| Syslog status diagnostic | Microsoft.AIX.5.3.Process.Syslog.Diagnostic | -- | 300 |
| Ssh status diagnostic | Microsoft.AIX.5.3.Process.Ssh.Diagnostic | -- | 300 |
| Rpcstat status diagnostic | Microsoft.AIX.5.3.Process.Rpcstat.Diagnostic | -- | 300 |
| Portmap status diagnostic | Microsoft.AIX.5.3.Process.Portmap.Diagnostic | -- | 300 |

Recoveries

AIX 5.3 recoveries are described in detail below.

AIX 5.3 Operating System Recoveries

|  |  |  |  |
| --- | --- | --- | --- |
| Recovery Name | Recovery ID | Enabled | Requires  Privileged  Account |
| Disk Health Mount | Microsoft.AIX.5.3.LogicalDisk.DiskHealth.Mount | No | Yes |
| Cron status restart | Microsoft.AIX.5.3.Process.Cron.Restart | No | Yes |
| Syslog status restart | Microsoft.AIX.5.3.Process.Syslog.Restart | No | Yes |
| Ssh status restart | Microsoft.AIX.5.3.Process.Ssh.Restart | No | Yes |
| Rpcstat status restart | Microsoft.AIX.5.3.Process.Rpcstat.Restart | No | Yes |
| Portmap status restart | Microsoft.AIX.5.3.Process.Portmap.Restart | No | Yes |

Reports

The following reports are included in this management pack. Allow up to 30 minutes for reports from a new management pack to appear in the Reporting console.

AIX 5.3 Operating System Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Report Name | Report  Contents | Related Rules | Class Selection Criteria |
| AIX 5.3 Operating System Performance | Total Percent Processor Time  Total Processor % IO Wait Time  Available MBytes  Pages per Second  Free Megabytes | Total Processor % Processor Time (AIX 5.3)  Available MBytes (AIX 5.3)  Pages/sec (AIX 5.3)  Free Megabytes (AIX 5.3) | AIX 5.3 Computer (Select using the “Add Group” dialog) |
| Operating System Configuration | OS Version  OS Display Name | Discover AIX 5.3 Operating System | AIX 5.3 Operating System |
| Operating System Storage Configuration< | Device Name  Files System  Size (Bytes) | Discover AIX 5.3 Logical Disks | AIX 5.3 Logical Disk |
| Performance History | Total Percent Processor Time | Total Processor % Processor Time (AIX 5.3) | AIX 5.3 Operating System |
| Memory Performance History (Available MB) | Available MBytes | Available MBytes (AIX 5.3) | AIX 5.3 Operating System |
| Memory Performance History (Page Reads per Sec) | Page Reads per Second | Page Reads/sec (AIX 5.3) | AIX 5.3 Operating System |
| Memory Performance History (Pages per Sec) | Pages Per Second | Pages/sec (AIX 5.3) | AIX 5.3 Operating System |
| Memory Performance History (Page Writes per Sec) | Page Writes per Second | Page Writes/sec (AIX 5.3) | AIX 5.3 Operating System |
| Total Percent IO Wait Time (Percentage Usage) | Percent IO Wait Time | Total Processor % IO Wait Time (AIX 5.3) | AIX 5.3 Operating System |
| Performance History (Percent Processor Time) | Total Percent Processor Time | Total Processor % Processor Time (AIX 5.3) | AIX 5.3 Operating System |

AIX 6.1

The details for AIX 6.1 platform-dependent definitions of discoveries, rules, alerts, monitors, diagnostics, recoveries, and reports are listed below.

[Discoveries](#zf2f0539dfa3f40b386c3a286f83ea952)

[Rules](#z38628eb75b654678a9434dbdf050fad4)

[Monitors](#za96255b9d6014e5e94dacfd00c50495e)

[Diagnostics](#za23dac533066490ba3a4e264e80f31c2)

[Recoveries](#zabc0ddcaf6234f9a92bf7b231f591255)

[Reports](#zebd5a7c365894b42a1069c71a2959d19)

Discoveries

Details for AIX 6.1 discoveries are described below.

AIX 6.1 Discovery

|  |  |  |  |
| --- | --- | --- | --- |
| Discovery Name | Discovery ID | Default  Interval  (seconds) | Enabled  by Default |
| Populate AIX 6.1 Computer Group | Microsoft.AIX.6.1.ComputerGroup.Discovery | N/A | Yes |
| Discover AIX 6.1 PPC Supported Agent Information | Microsoft.AIX.6.1.PPC.Discovery | 14400 | Yes |
| Discover AIX 6.1 Computer | Microsoft.AIX.6.1.Computer.Discovery | 14400 | Yes |
| Discover AIX 6.1 Operating System | Microsoft.AIX.6.1.OperatingSystem.Discovery | 14400 | Yes |
| Discover AIX 6.1 Processor | Microsoft.AIX.6.1.Processor.Discovery | 14400 | No |
| Discover AIX 6.1 Physical Disks | Microsoft.AIX.6.1.PhysicalDisk.Discovery | 14400 | No |
| Discover AIX 6.1 Logical Disks | Microsoft.AIX.6.1.LogicalDisk.Discovery | 14400 | True |
| Discover AIX 6.1 Network Adapters | Microsoft.AIX.6.1.NetworkAdapter.Discovery | 14400 | Yes |

Rules

The data collection rules for AIX 6.1 are described below. All rules are on and remoteable by default or are documented as disabled.

AIX 6.1 Operating System Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Total Processor % Processor Time (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. TotalPercentProcessorTime.Collection | 300 |
| Total Processor % Idle Time (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. TotalPercentIdleTime.Collection | 300 |
| Total Processor % User Time (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. TotalPercentUserTime.Collection | 300 |
| Total Processor % Privileged Time (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. TotalPercentPrivilegedTime.Collection | 300 |
| Total Processor % IO Wait Time (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. TotalPercentIOWaitTime.Collection | 300 |
| Available MBytes (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. AvailableMBytes.Collection | 300 |
| % Available Memory (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PercentAvailableMemory.Collection | 300 |
| Used Memory MBytes (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. UsedMemoryMBytes.Collection | 300 |
| % Used Memory (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PercentUsedMemory.Collection | 300 |
| Pages/sec (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PagesPerSecond.Collection | 300 |
| Page Reads/sec (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PageReadsPerSecond.Collection | 300 |
| Page Writes/sec (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PageWritesPerSecond.Collection | 300 |
| Available MBytes (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. AvailableMBytesSwap.Collection | 300 |
| % Available Swap Space (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PercentAvailableSwap.Collection | 300 |
| Used MBytes (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. UsedMBytesSwap.Collection | 300 |
| % Used Swap Space (AIX 6.1) | Microsoft.AIX.6.1.OperatingSystem. PercentUsedSwapSpace.Collection | 300 |

AIX 6.1 Processor Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Processor % Time (AIX 6.1) | Microsoft.AIX.6.1.Processor. PercentProcessorTime.Collection | 300 |
| Processor % Idle Time (AIX 6.1) | Microsoft.AIX.6.1.Processor. PercentIdleTime.Collection | 300 |
| Processor % User Time (AIX 6.1) | Microsoft.AIX.6.1.Processor. PercentUserTime.Collection | 300 |
| Processor % Privileged Time (AIX 6.1) | Microsoft.AIX.6.1.Processor. PercentPrivilegedTime.Collection | 300 |
| Processor % IO Time (AIX 6.1) | Microsoft.AIX.6.1.Processor. TotalPercentIOWaitTime.Collection | 300 |

AIX 6.1 Logical Disk Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Free Megabytes (AIX 6.1) | Microsoft.AIX.6.1.LogicalDisk. FreeMegabytes.Collection | 300 |
| Used Megabytes (AIX 6.1) | Microsoft.AIX.6.1.LogicalDisk. UsedMegabytes.Collection | 300 |
| % Free Space (AIX 6.1) | Microsoft.AIX.6.1.LogicalDisk. PercentFreeSpace.Collection | 300 |
| % Used Space (AIX 6.1) | Microsoft.AIX.6.1.LogicalDisk. PercentUsedSpace.Collection | 300 |

AIX 6.1 Physical Disk Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Disk Bytes/sec (AIX 6.1) | Microsoft.AIX.6.1.PhysicalDisk. DiskBytesPerSecond.Collection | 300 |
| Avg. Disk sec/Transfer (AIX 6.1) | Microsoft.AIX.6.1.PhysicalDisk. AverageDiskTransferTime.Collection | 300 |

AIX 6.1 Network Adapter Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Byte Received/Sec (AIX 6.1) | Microsoft.AIX.6.1.NetworkAdapter. BytesReceivedPerSec.Collection | 300 |
| Byte Sent/Sec (AIX 6.1) | Microsoft.AIX.6.1.NetworkAdapter. BytesSentPerSec.Collection | 300 |
| Bytes Total/Sec (AIX 6.1) | Microsoft.AIX.6.1.NetworkAdapter. BytesTotalSec.Collection | 300 |

AIX 6.1 Log File Data Collection Rules

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) | Status |
| SU Command Success Alert Rule | Microsoft.AIX.6.1.LogFile. Syslog.SU.Command.Root.Success.Alert | N/A | Disabled |
| SU Command Failure Alert Rule | Microsoft.AIX.6.1.LogFile. Syslog.SU.Command.Root.Failure.Alert | N/A | Disabled |
| SSH Success Alert Rule | Microsoft.AIX.6.1.LogFile. Syslog.SSHAuth.Root.Success.Alert | N/A | Disabled |
| SSH Failure Alert Rule | Microsoft.AIX.6.1.LogFile. Syslog.SSHAuth.Root.Failure.Alert | N/A | Disabled |
| Syslog Kernel Critical Alert Rule | Microsoft.AIX.6.1.LogFile.Syslog.Kernel.Critical.Alert | N/A | Disabled |
| Syslog Auth Critical Alert Rule | Microsoft.AIX.6.1.LogFile.Syslog.Auth.Critical.Alert | N/A | Disabled |
| Syslog Critical Alert Rule | Microsoft.AIX.6.1.LogFile.Syslog.Critical.Alert | N/A | Disabled |
| Kernel Panic Alert Rule | Microsoft.AIX.6.1.LogFile.Syslog.Kernel.Panic.Alert | N/A | Disabled |

Monitors

Details for AIX 6.1 monitors are described below. All listed monitors are public, enabled, and set to auto resolve.

AIX 6.1 Operating System Monitors

|  |  |  |  |
| --- | --- | --- | --- |
| Monitor Name | ID Name | Interval  (Seconds) | Threshold |
| Operating System Total Percent Processor Time | Microsoft.AIX.6.1.OperatingSystem.TotalPercentProcessorTime.Monitor | 300 | 95 |
| Operating System Available MBytes | Microsoft.AIX.6.1.OperatingSystem.AvailableMBytes.Monitor | 300 | 2.5 |
| OperatingSystem Available MBytes Swap | Microsoft.AIX.6.1.OperatingSystem.AvailableMBytesSwap.Monitor | 300 | 2.5 |
| Processor Percent Processor Time | Microsoft.AIX.6.1.Processor.PercentProcessorTime.Monitor | 300 | 95 |
| Logical Disk Health | Microsoft.AIX.6.1.LogicalDisk.DiskHealth.Monitor | 300 | Expected Status = True |
| Logical Disk % Free Space | Microsoft.AIX.6.1.LogicalDisk.PercentFreeSpace.Monitor | 300 | 5 |
| Physical Disk Health | Microsoft.AIX.6.1.PhysicalDisk.DiskHealth.Monitor | 300 | Expected Status = True |
| Physical Disk Avg. Disk sec/Transfer | Microsoft.AIX.6.1.PhysicalDisk.AverageDiskTransferTime.Monitor | 300 | 0.5 |
| Network Adapter Health | Microsoft.AIX.6.1.NetworkAdapter.Health.Monitor | 300 | Expected Status = 2 |
| Process Cron Service Health | Microsoft.AIX.6.1.Process.Cron.Monitor | 300 | N/A |
| Process Syslog Service Health | Microsoft.AIX.6.1.Process.Syslog.Monitor | 300 | N/A |
| Process SSH Service Health | Microsoft.AIX.6.1.Process.Ssh.Monitor | 300 | N/A |
| Process Rpcstat Service Health | Microsoft.AIX.6.1.Process.Rpcstat.Monitor | 300 | N/A |
| Process Portmap Service Health | Microsoft.AIX.6.1.Process.Portmap.Monitor | 300 | N/A |

Diagnostics

AIX 6.1 diagnostics are described in detail below. All diagnostics are public and enabled by default.

AIX 6.1 Operating System Diagnostics

|  |  |  |  |
| --- | --- | --- | --- |
| Diagnostic Name | Diagnostic ID | Comment | Timeout  (Seconds) |
| Total Percent Processor Time Top Processes Diagnostic | Microsoft.AIX.6.1.OperatingSystem.TotalPercentProcessorTime.TopProcesses.Diagnostic | In response to High CPU Utilization, Return top Consumers | 300 |
| Percent Processor Time Top Processes Diagnostic | Microsoft.AIX.6.1.Processor.PercentProcessorTime.TopProcesses.Diagnostic | In response to High CPU Utilization, Return top Consumers | 300 |
| Available MBytes Top Processes Diagnostic | Microsoft.AIX.6.1.OperatingSystem.AvailableMBytes.TopProcesses.Diagnostic | In response to High Memory Utilization, Return top Consumers | 300 |
| Available MBytes Swap Top Processes Diagnostic | Microsoft.AIX.6.1.OperatingSystem.AvailableMBytesSwap.TopProcesses.Diagnostic | In response to High Memory Utilization, Return top Consumers | 300 |
| Logical Disk Health Diagnostic | Microsoft.AIX.6.1.LogicalDisk.DiskHealth.Diagnostic | -- | 300 |
| Cron status diagnostic | Microsoft.AIX.6.1.Process.Cron.Diagnostic | -- | 300 |
| Syslog status diagnostic | Microsoft.AIX.6.1.Process.Syslog.Diagnostic | -- | 300 |
| Ssh status diagnostic | Microsoft.AIX.6.1.Process.Ssh.Diagnostic | -- | 300 |
| Rpcstat status diagnostic | Microsoft.AIX.6.1.Process.Rpcstat.Diagnostic | -- | 300 |
| Portmap status diagnostic | Microsoft.AIX.6.1.Process.Portmap.Diagnostic | -- | 300 |

Recoveries

AIX 6.1 recoveries are described in detail below.

AIX 6.1 Operating System Recoveries

|  |  |  |  |
| --- | --- | --- | --- |
| Recovery Name | Recovery ID | Enabled | Requires  Privileged  Account |
| Disk Health Mount | Microsoft.AIX.6.1.LogicalDisk.DiskHealth.Mount | No | Yes |
| Cron status restart | Microsoft.AIX.6.1.Process.Cron.Restart | No | Yes |
| Syslog status restart | Microsoft.AIX.6.1.Process.Syslog.Restart | No | Yes |
| Ssh status restart | Microsoft.AIX.6.1.Process.Ssh.Restart | No | Yes |
| Rpcstat status restart | Microsoft.AIX.6.1.Process.Rpcstat.Restart | No | Yes |
| Portmap status restart | Microsoft.AIX.6.1.Process.Portmap.Restart | No | Yes |

Reports

The following reports are included in this management pack. Allow up to 30 minutes for reports from a new management pack to appear in the Reporting console.

AIX 6.1 Operating System Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Report Name | Report  Contents | Related Rules | Class Selection Criteria |
| AIX 6.1 Operating System Performance | Total Percent Processor Time  Total Processor % IO Wait Time  Available MBytes  Pages per Second  Free Megabytes | Total Processor % Processor Time (AIX 6.1)  Available MBytes (AIX 6.1)  Pages/sec (AIX 6.1)  Free Megabytes (AIX 6.1) | AIX 6.1 Computer (Select using the “Add Group” dialog) |
| Operating System Configuration | OS Version  OS Display Name | Discover AIX 6.1 Operating System | AIX 6.1 Operating System |
| Operating System Storage Configuration | Device Name  Files System  Size (Bytes) | Discover AIX 6.1 Logical Disks | AIX 6.1 Logical Disk |
| Performance History | Total Percent Processor Time | Total Processor % Processor Time (AIX 6.1) | AIX 6.1 Operating System |
| Memory Performance History (Available MB) | Available MBytes | Available MBytes (AIX 6.1) | AIX 6.1 Operating System |
| Memory Performance History (Page Reads per Sec) | Page Reads per Second | Page Reads/sec (AIX 6.1) | AIX 6.1 Operating System |
| Memory Performance History (Pages per Sec) | Pages Per Second | Pages/sec (AIX 6.1) | AIX 6.1 Operating System |
| Memory Performance History (Page Writes per Sec) | Page Writes per Second | Page Writes/sec (AIX 6.1) | AIX 6.1 Operating System |
| Total Percent IO Wait Time (Percentage Usage) | Percent IO Wait Time | Total Processor % IO Wait Time (AIX 6.1) | AIX 6.1 Operating System |
| Performance History (Percent Processor Time) | Total Percent Processor Time | Total Processor % Processor Time (AIX 6.1) | AIX 6.1 Operating System |

AIX 7

The details for AIX 7 platform-dependent definitions of discoveries, rules, alerts, monitors, diagnostics, recoveries, and reports are listed below.

[Discoveries](#AIX7Discoveries)

[Rules](#AIX7Rules)

[Monitors](#AIX7Monitors)

[Diagnostics](#AIX7Diagnostics)

[Recoveries](#AIX7Recoveries)

[Reports](#AIX7Reports)

Discoveries

Details for AIX 7 discoveries are described below.

AIX 7 Discovery

|  |  |  |  |
| --- | --- | --- | --- |
| Discovery Name | Discovery ID | Default  Interval  (seconds) | Enabled  by Default |
| Populate AIX 7 Computer Group | Microsoft.AIX.7.ComputerGroup.Discovery | N/A | Yes |
| Discover AIX 7 PPC Supported Agent Information | Microsoft.AIX.7.PPC.Discovery | 14400 | Yes |
| Discover AIX 7 Computer | Microsoft.AIX.7.Computer.Discovery | 14400 | Yes |
| Discover AIX 7 Operating System | Microsoft.AIX.7.OperatingSystem.Discovery | 14400 | Yes |
| Discover AIX 7 Processor | Microsoft.AIX.7.Processor.Discovery | 14400 | No |
| Discover AIX 7 Physical Disks | Microsoft.AIX.7.PhysicalDisk.Discovery | 14400 | No |
| Discover AIX 7 Logical Disks | Microsoft.AIX.7.LogicalDisk.Discovery | 14400 | True |
| Discover AIX 7 Network Adapters | Microsoft.AIX.7.NetworkAdapter.Discovery | 14400 | Yes |

Rules

The data collection rules for AIX 7 are described below. All rules are on and remoteable by default or are documented as disabled.

AIX 7 Operating System Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Total Processor % Processor Time (AIX 7) | Microsoft.AIX.7.OperatingSystem. TotalPercentProcessorTime.Collection | 300 |
| Total Processor % Idle Time (AIX 7) | Microsoft.AIX.7.OperatingSystem. TotalPercentIdleTime.Collection | 300 |
| Total Processor % User Time (AIX 7) | Microsoft.AIX.7.OperatingSystem. TotalPercentUserTime.Collection | 300 |
| Total Processor % Privileged Time (AIX 7) | Microsoft.AIX.7.OperatingSystem. TotalPercentPrivilegedTime.Collection | 300 |
| Total Processor % IO Wait Time (AIX 7) | Microsoft.AIX.7.OperatingSystem. TotalPercentIOWaitTime.Collection | 300 |
| Available MBytes (AIX 7) | Microsoft.AIX.7.OperatingSystem. AvailableMBytes.Collection | 300 |
| % Available Memory (AIX 7) | Microsoft.AIX.7.OperatingSystem. PercentAvailableMemory.Collection | 300 |
| Used Memory MBytes (AIX 7) | Microsoft.AIX.7.OperatingSystem. UsedMemoryMBytes.Collection | 300 |
| % Used Memory (AIX 7) | Microsoft.AIX.7.OperatingSystem. PercentUsedMemory.Collection | 300 |
| Pages/sec (AIX 7) | Microsoft.AIX.7.OperatingSystem. PagesPerSecond.Collection | 300 |
| Page Reads/sec (AIX 7) | Microsoft.AIX.7.OperatingSystem. PageReadsPerSecond.Collection | 300 |
| Page Writes/sec (AIX 7) | Microsoft.AIX.7.OperatingSystem. PageWritesPerSecond.Collection | 300 |
| Available MBytes (AIX 7) | Microsoft.AIX.7.OperatingSystem. AvailableMBytesSwap.Collection | 300 |
| % Available Swap Space (AIX 7) | Microsoft.AIX.7.OperatingSystem. PercentAvailableSwap.Collection | 300 |
| Used MBytes (AIX 7) | Microsoft.AIX.7.OperatingSystem. UsedMBytesSwap.Collection | 300 |
| % Used Swap Space (AIX 7) | Microsoft.AIX.7.OperatingSystem. PercentUsedSwapSpace.Collection | 300 |

AIX 7 Processor Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Processor % Time (AIX 7) | Microsoft.AIX.7.Processor. PercentProcessorTime.Collection | 300 |
| Processor % Idle Time (AIX 7) | Microsoft.AIX.7.Processor. PercentIdleTime.Collection | 300 |
| Processor % User Time (AIX 7) | Microsoft.AIX.7.Processor. PercentUserTime.Collection | 300 |
| Processor % Privileged Time (AIX 7) | Microsoft.AIX.7.Processor. PercentPrivilegedTime.Collection | 300 |
| Processor % IO Time (AIX 7) | Microsoft.AIX.7.Processor. TotalPercentIOWaitTime.Collection | 300 |

AIX 7 Logical Disk Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Free Megabytes (AIX 7) | Microsoft.AIX.7.LogicalDisk. FreeMegabytes.Collection | 300 |
| Used Megabytes (AIX 7) | Microsoft.AIX.7.LogicalDisk. UsedMegabytes.Collection | 300 |
| % Free Space (AIX 7) | Microsoft.AIX.7.LogicalDisk. PercentFreeSpace.Collection | 300 |
| % Used Space (AIX 7) | Microsoft.AIX.7.LogicalDisk. PercentUsedSpace.Collection | 300 |

AIX 7 Physical Disk Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Disk Bytes/sec (AIX 7) | Microsoft.AIX.7.PhysicalDisk. DiskBytesPerSecond.Collection | 300 |
| Avg. Disk sec/Transfer (AIX 7) | Microsoft.AIX.7.PhysicalDisk. AverageDiskTransferTime.Collection | 300 |

AIX 7 Network Adapter Data Collection Rules

|  |  |  |
| --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) |
| Byte Received/Sec (AIX 7) | Microsoft.AIX.7.NetworkAdapter. BytesReceivedPerSec.Collection | 300 |
| Byte Sent/Sec (AIX 7) | Microsoft.AIX.7.NetworkAdapter. BytesSentPerSec.Collection | 300 |
| Bytes Total/Sec (AIX 7) | Microsoft.AIX.7.NetworkAdapter. BytesTotalSec.Collection | 300 |

AIX 7 Log File Data Collection Rules

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Name | Rule ID | Interval  (Seconds) | Status |
| SU Command Success Alert Rule | Microsoft.AIX.7.LogFile. Syslog.SU.Command.Root.Success.Alert | N/A | Disabled |
| SU Command Failure Alert Rule | Microsoft.AIX.7.LogFile. Syslog.SU.Command.Root.Failure.Alert | N/A | Disabled |
| SSH Success Alert Rule | Microsoft.AIX.7.LogFile. Syslog.SSHAuth.Root.Success.Alert | N/A | Disabled |
| SSH Failure Alert Rule | Microsoft.AIX.7.LogFile. Syslog.SSHAuth.Root.Failure.Alert | N/A | Disabled |
| Syslog Kernel Critical Alert Rule | Microsoft.AIX.7.LogFile.Syslog.Kernel.Critical.Alert | N/A | Disabled |
| Syslog Auth Critical Alert Rule | Microsoft.AIX.7.LogFile.Syslog.Auth.Critical.Alert | N/A | Disabled |
| Syslog Critical Alert Rule | Microsoft.AIX.7.LogFile.Syslog.Critical.Alert | N/A | Disabled |

Monitors

Details for AIX 7 monitors are described below. All listed monitors are public, enabled, and set to auto resolve.

AIX 7 Operating System Monitors

|  |  |  |  |
| --- | --- | --- | --- |
| Monitor Name | ID Name | Interval  (Seconds) | Threshold |
| Operating System Total Percent Processor Time | Microsoft.AIX.7.OperatingSystem.TotalPercentProcessorTime.Monitor | 300 | 95 |
| Operating System Available MBytes | Microsoft.AIX.7.OperatingSystem.AvailableMBytes.Monitor | 300 | 2.5 |
| OperatingSystem Available MBytes Swap | Microsoft.AIX.7.OperatingSystem.AvailableMBytesSwap.Monitor | 300 | 2.5 |
| Processor Percent Processor Time | Microsoft.AIX.7.Processor.PercentProcessorTime.Monitor | 300 | 95 |
| Logical Disk Health | Microsoft.AIX.7.LogicalDisk.DiskHealth.Monitor | 300 | Expected Status = True |
| Logical Disk % Free Space | Microsoft.AIX.7.LogicalDisk.PercentFreeSpace.Monitor | 300 | 5 |
| Physical Disk Health | Microsoft.AIX.7.PhysicalDisk.DiskHealth.Monitor | 300 | Expected Status = True |
| Physical Disk Avg. Disk sec/Transfer | Microsoft.AIX.7.PhysicalDisk.AverageDiskTransferTime.Monitor | 300 | 0.5 |
| Network Adapter Health | Microsoft.AIX.7.NetworkAdapter.Health.Monitor | 300 | Expected Status = 2 |
| Process Cron Service Health | Microsoft.AIX.7.Process.Cron.Monitor | 300 | N/A |
| Process Syslog Service Health | Microsoft.AIX.7.Process.Syslog.Monitor | 300 | N/A |
| Process SSH Service Health | Microsoft.AIX.7.Process.Ssh.Monitor | 300 | N/A |
| Process Rpcstat Service Health | Microsoft.AIX.7.Process.Rpcstat.Monitor | 300 | N/A |
| Process Portmap Service Health | Microsoft.AIX.7.Process.Portmap.Monitor | 300 | N/A |

Diagnostics

AIX 7 diagnostics are described in detail below. All diagnostics are public and enabled by default.

AIX 7 Operating System Diagnostics

|  |  |  |  |
| --- | --- | --- | --- |
| Diagnostic Name | Diagnostic ID | Comment | Timeout  (Seconds) |
| Total Percent Processor Time Top Processes Diagnostic | Microsoft.AIX.7.OperatingSystem.TotalPercentProcessorTime.TopProcesses.Diagnostic | In response to High CPU Utilization, Return top Consumers | 300 |
| Percent Processor Time Top Processes Diagnostic | Microsoft.AIX.7.Processor.PercentProcessorTime.TopProcesses.Diagnostic | In response to High CPU Utilization, Return top Consumers | 300 |
| Available MBytes Top Processes Diagnostic | Microsoft.AIX.7.OperatingSystem.AvailableMBytes.TopProcesses.Diagnostic | In response to High Memory Utilization, Return top Consumers | 300 |
| Available MBytes Swap Top Processes Diagnostic | Microsoft.AIX.7.OperatingSystem.AvailableMBytesSwap.TopProcesses.Diagnostic | In response to High Memory Utilization, Return top Consumers | 300 |
| Logical Disk Health Diagnostic | Microsoft.AIX.7.LogicalDisk.DiskHealth.Diagnostic | -- | 300 |
| Cron status diagnostic | Microsoft.AIX.7.Process.Cron.Diagnostic | -- | 300 |
| Syslog status diagnostic | Microsoft.AIX.7.Process.Syslog.Diagnostic | -- | 300 |
| Ssh status diagnostic | Microsoft.AIX.7.Process.Ssh.Diagnostic | -- | 300 |
| Rpcstat status diagnostic | Microsoft.AIX.7.Process.Rpcstat.Diagnostic | -- | 300 |
| Portmap status diagnostic | Microsoft.AIX.7.Process.Portmap.Diagnostic | -- | 300 |

Recoveries

AIX 7 recoveries are described in detail below.

AIX 7 Operating System Recoveries

|  |  |  |  |
| --- | --- | --- | --- |
| Recovery Name | Recovery ID | Enabled | Requires  Privileged  Account |
| Disk Health Mount | Microsoft.AIX.7.LogicalDisk.DiskHealth.Mount | No | Yes |
| Cron status restart | Microsoft.AIX.7.Process.Cron.Restart | No | Yes |
| Syslog status restart | Microsoft.AIX.7.Process.Syslog.Restart | No | Yes |
| Ssh status restart | Microsoft.AIX.7.Process.Ssh.Restart | No | Yes |
| Rpcstat status restart | Microsoft.AIX.7.Process.Rpcstat.Restart | No | Yes |
| Portmap status restart | Microsoft.AIX.7.Process.Portmap.Restart | No | Yes |

Reports

The following reports are included in this management pack. Allow up to 30 minutes for reports from a new management pack to appear in the Reporting console.

AIX 7 Operating System Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Report Name | Report  Contents | Related Rules | Class Selection Criteria |
| AIX 7 Operating System Performance | Total Percent Processor Time  Total Processor % IO Wait Time  Available MBytes  Pages per Second  Free Megabytes | Total Processor % Processor Time (AIX 7)  Available MBytes (AIX 7)  Pages/sec (AIX 7)  Free Megabytes (AIX 7) | AIX 7 Computer (Select using the “Add Group” dialog) |
| Operating System Configuration | OS Version  OS Display Name | Discover AIX 7 Operating System | AIX 7 Operating System |
| Operating System Storage Configuration | Device Name  Files System  Size (Bytes) | Discover AIX 7 Logical Disks | AIX 7 Logical Disk |
| Performance History | Total Percent Processor Time | Total Processor % Processor Time (AIX 7) | AIX 7 Operating System |
| Memory Performance History (Available MB) | Available MBytes | Available MBytes (AIX 7) | AIX 7 Operating System |
| Memory Performance History (Page Reads per Sec) | Page Reads per Second | Page Reads/sec (AIX 7) | AIX 7 Operating System |
| Memory Performance History (Pages per Sec) | Pages Per Second | Pages/sec (AIX 7) | AIX 7 Operating System |
| Memory Performance History (Page Writes per Sec) | Page Writes per Second | Page Writes/sec (AIX 7) | AIX 7 Operating System |
| Total Percent IO Wait Time (Percentage Usage) | Percent IO Wait Time | Total Processor % IO Wait Time (AIX 7) | AIX 7 Operating System |
| Performance History (Percent Processor Time) | Total Percent Processor Time | Total Processor % Processor Time (AIX 7) | AIX 7 Operating System |