

```
<ManagementPack ContentReadable="true" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
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<Manifest>
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<Identity>
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```
<ID>Example.Unix.ShellCommand.Monitoring</ID>
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```
<Version>1.0.0.0</Version>
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</Identity>
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```
<Name>Example Unix ShellCommand Monitoring</Name>
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<References>
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```
<Reference Alias="SystemCenter">
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<ID>Microsoft.SystemCenter.Library</ID>
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<Version>6.0.0.0</Version>
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<PublicKeyToken>31bf3856ad364e35</PublicKeyToken>
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  <Version>6.0.0.0</Version>

  <PublicKeyToken>31bf3856ad364e35</PublicKeyToken>

</Reference>

</References>

</Manifest>

<TypeDefinitions>

  <ModuleTypes>

    <DataSourceModuleType ID="Example.Unix.ShellCommand.Monitoring.DataSource"
Accessibility="Internal" Batching="false">

      <Configuration>

        <xsd:element minOccurs="1" name="IntervalSeconds" type="xsd:integer" />

        <xsd:element minOccurs="1" name="SyncTime" type="xsd:string" />

        <xsd:element minOccurs="1" name="TargetSystem" type="xsd:string" />

        <xsd:element minOccurs="1" name="ShellCommand" type="xsd:string" />

        <xsd:element minOccurs="1" name="Timeout" type="xsd:integer" />

      </Configuration>

      <ModuleImplementation Isolation="Any">

        <Composite>

          <MemberModules>

            <DataSource ID="Scheduler" TypeID="SystemLibrary!System.SimpleScheduler">

              <IntervalSeconds>${Config/IntervalSeconds}</IntervalSeconds>

            </DataSource>

          </MemberModules>

        </Composite>

      </ModuleImplementation>

    </DataSourceModuleType>

  </ModuleTypes>

</TypeDefinitions>
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```
<SyncTime>$Config/SyncTime$</SyncTime>

</DataSource>

<ProbeAction ID="WSManProbe" TypeID="Unix!Microsoft.Unix.WSMan.Invoke.ProbeAction">

  <TargetSystem>$Config/TargetSystem$</TargetSystem>

  <Uri>http://schemas.microsoft.com/wbem/wscim/1/cim-
schema/2/SCX_OperatingSystem?__cimnamespace=root/scx</Uri>

  <Selector />

  <InvokeAction>ExecuteShellCommand</InvokeAction>

  <Input><![CDATA[<p:ExecuteShellCommand_INPUT
xmlns:p="http://schemas.microsoft.com/wbem/wscim/1/cim-
schema/2/SCX_OperatingSystem"><p:command>$Config/ShellCommand$</p:command><p:timeout>$
Config/Timeout$</p:timeout></p:ExecuteShellCommand_INPUT>]]></Input>

  </ProbeAction>

</MemberModules>

<Composition>

  <Node ID="WSManProbe">

    <Node ID="Scheduler" />

  </Node>

</Composition>

</Composite>

</ModuleImplementation>

<OutputType>WSMan!Microsoft.SystemCenter.WSManagement.WSManData</OutputType>

</DataSourceModuleType>

</ModuleTypes>

<MonitorTypes>

  <UnitMonitorType ID="Example.Unix.ShellCommand.Monitoring.MonitorType"
Accessibility="Internal">
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<MonitorTypeStates>
  <MonitorTypeState ID="StatusOK" NoDetection="false" />
  <MonitorTypeState ID="StatusError" NoDetection="false" />
</MonitorTypeStates>

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  <xsd:element minOccurs="1" name="ShellCommand" type="xsd:string" />
  <xsd:element minOccurs="1" name="Timeout" type="xsd:integer" />
  <xsd:element minOccurs="1" name="CompareCount" type="xsd:integer" />
  <xsd:element minOccurs="1" name="TimeWindowInSeconds" type="xsd:integer" />
  <xsd:element minOccurs="1" name="ExpectedOutput" type="xsd:string" />
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<OverrideableParameters>
  <OverrideableParameter ID="IntervalSeconds" Selector="$Config/IntervalSeconds$"
ParameterType="int" />
  <OverrideableParameter ID="SyncTime" Selector="$Config/SyncTime$" ParameterType="string" />
  <OverrideableParameter ID="ShellCommand" Selector="$Config/ShellCommand$"
ParameterType="string" />
  <OverrideableParameter ID="TimeOut" Selector="$Config/Timeout$" ParameterType="int" />
  <OverrideableParameter ID="CompareCount" Selector="$Config/CompareCount$"
ParameterType="int" />
  <OverrideableParameter ID="TimeWindowInSeconds"
Selector="$Config/TimeWindowInSeconds$" ParameterType="int" />
  <OverrideableParameter ID="ExpectedOutput" Selector="$Config/ExpectedOutput$"
ParameterType="string" />
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</OverrideableParameters>

<MonitorImplementation>

<MemberModules>

<DataSource ID="DS" TypeID="Example.Unix.ShellCommand.Monitoring.DataSource">

<IntervalSeconds>\$Config/IntervalSeconds\$</IntervalSeconds>

<SyncTime>\$Config/SyncTime\$</SyncTime>

<TargetSystem>\$Config/TargetSystem\$</TargetSystem>

<ShellCommand>\$Config/ShellCommand\$</ShellCommand>

<Timeout>\$Config/Timeout\$</Timeout>

</DataSource>

<ConditionDetection ID="SuccessFilter" TypeID="SystemLibrary!System.ExpressionFilter">

<Expression>

<And>

<Expression>

<RegexExpression>

<ValueExpression>

<XPathQuery Type="String">//*[local-name()='StdOut']</XPathQuery>

</ValueExpression>

<Operator>ContainsSubstring</Operator>

<Pattern>\$Config/ExpectedOutput\$</Pattern>

</RegexExpression>

</Expression>

<Expression>

<SimpleExpression>

<ValueExpression>

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<XPathQuery Type="String">//*[local-name()="ReturnCode"]</XPathQuery>
</ValueExpression>
<Operator>Equal</Operator>
<ValueExpression>
  <Value Type="String">0</Value>
</ValueExpression>
</SimpleExpression>
</Expression>
</And>
</Expression>
</ConditionDetection>
<ConditionDetection ID="ErrorFilter" TypeID="SystemLibrary!System.ExpressionFilter">
  <Expression>
    <Or>
      <Expression>
        <RegExExpression>
          <ValueExpression>
            <XPathQuery Type="String">//*[local-name()="StdOut"]
            </XPathQuery>
          </ValueExpression>
          <Operator>DoesNotContainSubstring</Operator>
          <Pattern>${Config/ExpectedOutput}</Pattern>
        </RegExExpression>
      </Expression>
    </Or>
  </Expression>
</ConditionDetection>
```

```
<SimpleExpression>
  <ValueExpression>
    <XPathQuery Type="Integer">//*[local-name()="ReturnCode"]
      </XPathQuery>
    </ValueExpression>
  <Operator>NotEqual</Operator>
  <ValueExpression>
    <Value Type="Integer">0
      </Value>
    </ValueExpression>
  </SimpleExpression>
</Expression>
</Or>
</Expression>
</ConditionDetection>
<ConditionDetection ID="Consolidator" TypeID="SystemLibrary!System.ConsolidatorCondition">
  <Consolidator>
    <ConsolidationProperties />
    <TimeControl>
      <WithinTimeSchedule>
        <Interval>$Config/TimeWindowInSeconds$</Interval>
      </WithinTimeSchedule>
    </TimeControl>
    <CountingCondition>
      <Count>$Config/CompareCount$</Count>
    </CountingCondition>
  </Consolidator>
</ConditionDetection>
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<CountMode>OnNewItemTestOutputRestart_OnTimerSlideByOne</CountMode>
</CountingCondition>
</Consolidator>
</ConditionDetection>
</MemberModules>
<RegularDetections>
  <RegularDetection MonitorTypeStateID="StatusOK">
    <Node ID="SuccessFilter">
      <Node ID="DS" />
    </Node>
  </RegularDetection>
  <RegularDetection MonitorTypeStateID="StatusError">
    <Node ID="Consolidator">
      <Node ID="ErrorFilter">
        <Node ID="DS" />
      </Node>
    </Node>
  </RegularDetection>
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</MonitorImplementation>
</UnitMonitorType>
</MonitorTypes>
</TypeDefinitions>
<Monitoring>
  <Monitors>
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<UnitMonitor ID="Example.Unix.ShellCommand.Monitor" Accessibility="Internal" Enabled="true"
Target="Unix!Microsoft.Unix.Computer" ParentMonitorID="Health!System.Health.AvailabilityState"
Remotable="true" Priority="Normal" TypeID="Example.Unix.ShellCommand.Monitoring.MonitorType"
ConfirmDelivery="true">
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```
<Category>AvailabilityHealth</Category>
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```
<AlertSettings AlertMessage="Example.Unix.ShellCommand.Monitor_AlertMessageResourceID">
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```
<AlertOnState>Error</AlertOnState>
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```
<AutoResolve>true</AutoResolve>
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```
<AlertPriority>Normal</AlertPriority>
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```
<AlertSeverity>Error</AlertSeverity>
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<AlertParameters>
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```
<AlertParameter1>${Data/Context///*[local-name()="ReturnCode"]}${</AlertParameter1>
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```
<AlertParameter2>${Data/Context///*[local-name()="StdOut"]}${</AlertParameter2>
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</AlertParameters>
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</AlertSettings>
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```
<OperationalStates>
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<OperationalState ID="UIGeneratedOpStateId67ba1b3b812a4018b18e870227766d05"
MonitorTypeStateID="StatusOK" HealthState="Success" />
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```
<OperationalState ID="UIGeneratedOpStateIdbe02b269b27d430fa574f52ff572bb91"
MonitorTypeStateID="StatusError" HealthState="Error" />
```

```
</OperationalStates>
```

```
<Configuration>
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```
<IntervalSeconds>300</IntervalSeconds>
```

```
<SyncTime>00:15</SyncTime>
```

```
<TargetSystem><![CDATA[SERVER B --> This is hardcoded Value]]></TargetSystem>
```

```
<ShellCommand>Test_Shell_Command.sh -
Server: ${Target/Property[Type="Unix!Microsoft.Unix.Computer"]/PrincipalName}${</ShellCommand>
```

```
<Timeout>30</Timeout>
```

```
<CompareCount>2</CompareCount>

<TimeWindowInSeconds>600</TimeWindowInSeconds>

<ExpectedOutput>##Expected Output String##</ExpectedOutput>

</Configuration>

</UnitMonitor>

</Monitors>

</Monitoring>

<Presentation>

  <StringResources>

    <StringResource ID="Example.Unix.ShellCommand.Monitor_AlertMessageResourceID" />

  </StringResources>

</Presentation>

<LanguagePacks>

  <LanguagePack ID="ENU" IsDefault="false">

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        <Name>Example Unix Shell Command Monitor</Name>

        <Description />

      </DisplayString>

      <DisplayString ElementID="Example.Unix.ShellCommand.Monitor"
SubElementID="UIGeneratedOpStateId67ba1b3b812a4018b18e870227766d05">

        <Name>StatusOK</Name>

      </DisplayString>

      <DisplayString ElementID="Example.Unix.ShellCommand.Monitor"
SubElementID="UIGeneratedOpStateIdbe02b269b27d430fa574f52ff572bb91">

        <Name>StatusError</Name>
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</DisplayString>

<DisplayString ElementID="Example.Unix.ShellCommand.Monitor_AlertMessageResourceID">

<Name>Example Unix Shell Command Alert</Name>

<Description>Return Code: {0}

CommandOutput: {1}

</Description>

</DisplayString>

<DisplayString ElementID="Example.Unix.ShellCommand.Monitoring">

<Name>Example Unix ShellCommand Monitoring</Name>

</DisplayString>

<DisplayString ElementID="Example.Unix.ShellCommand.Monitoring.DataSource">

<Name>Example Unix ShellCommand Monitoring DS</Name>

</DisplayString>

<DisplayString ElementID="Example.Unix.ShellCommand.Monitoring.MonitorType">

<Name>Example Unix ShellCommand Monitoring MonitorType</Name>

</DisplayString>

</DisplayStrings>

</LanguagePack>

</LanguagePacks>

</ManagementPack>