The Jalasoft Smart Management Pack for Cisco ASA delivers enterprise ready monitoring of your network environment. You can monitor your network proactively and be aware of any potential problems that might occur, verify the status of your interfaces and ports, CPU load, traffic and much more. All information is forwarded efficiently to Microsoft System Center Operations Manager 2007 or 2012 which creates a one stop interface to see the status of your servers and network infrastructure.

Alerts and performance data are visible in **OpsMgr 2007 or 2012** and will help you take action and prevent any downtime.

A large number of **predefined** rules are provided with the Jalasoft Smart Management Pack for Cisco ASA. Installation is quick and simple and starting to monitor your network is just a matter of dragging and dropping the rules on the specific devices.

This is made possible through the use of Xian Network Manager 2012, the platform that runs the Smart Management Pack; no complicated programming or scripting is needed. You can also configure Syslog filters to forward Syslog alerts to OpsMgr and monitor single interfaces as an object, simplifying the monitoring of devices with distributed applications.

In order to analyze the behavior of the network device for a longer time, the Cisco ASA Smart Management Pack has a set of reports that can be executed from the OpsMgr Reporting Console.

Rule Parameters

An easy wizard lets you configure the rule parameters. All rules have by default three steps: rule parameters, active rule options and schedule.

Parameters

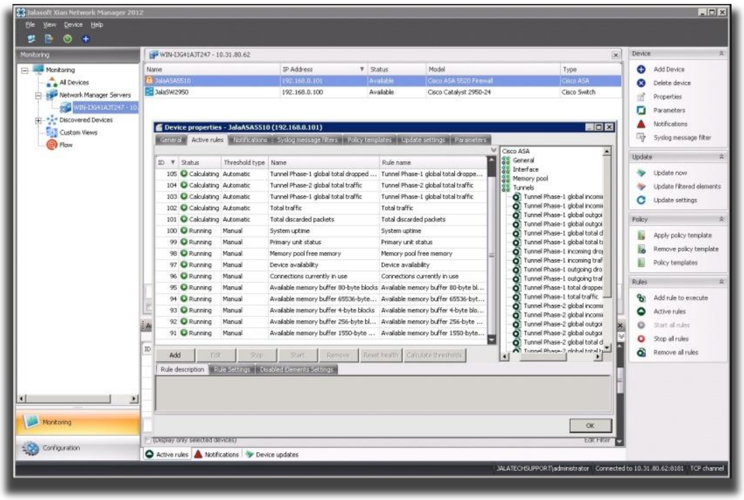
You can configure when an alert will be sent to OpsMgr 2. In many cases, this will be when the value is over or under a certain threshold.

However, for status based rules you can choose to generate an alert when the status changes or when it becomes a certain value (e.g. interface operational status: up, down, testing, unknown, or dormant).

For those rules related to interfaces, it is possible to select the interfaces where you want to apply the rule and define their individual thresholds. This way you can fine-tune the Xian NM environment.

Active rule options

The severity level is sent to OpsMgr when a rule meets the selected criteria. OpsMgr organizes the alerts by severity. With this option you can predefine each alert with a different level of severity (debug, informational, warning, error or critical), define the collection of performance counters to be used in performance data views or Xian NM Reports, rename the rule, and enable debug mode for the active rule.



Jalasoft Xian Network Manager 2012

WIN-IJG41AJT247 - 10.31.80.62

Name	IP Address	Status	Model	Type
JalaASA5510	192.168.0.101	Available	Cisco ASA 5520 Firewall	Cisco ASA
JalaSW2950	192.168.0.100	Available	Cisco Catalyst 2950-24	Cisco Switch

Device properties - JalaASA5510 (192.168.0.101)

ID	Status	Threshold type	Name	Rule name
105	Calculating	Automatic	Tunnel Phase-1 global total dropped ...	Tunnel Phase-1 global total droppe...
104	Calculating	Automatic	Tunnel Phase-2 global total traffic	Tunnel Phase-2 global total traffic
103	Calculating	Automatic	Tunnel Phase-1 global total traffic	Tunnel Phase-1 global total traffic
102	Calculating	Automatic	Total traffic	Total traffic
101	Calculating	Automatic	Total discarded packets	Total discarded packets
100	Running	Manual	System uptime	System uptime
99	Running	Manual	Primary unit status	Primary unit status
98	Running	Manual	Memory pool free memory	Memory pool free memory
97	Running	Manual	Device availability	Device availability
96	Running	Manual	Connections currently in use	Connections currently in use
95	Running	Manual	Available memory buffer 80-byte blocks	Available memory buffer 80-byte bl...
94	Running	Manual	Available memory buffer 65536-byte...	Available memory buffer 65536-byt...
93	Running	Manual	Available memory buffer 4-byte blocks	Available memory buffer 4-byte blo...
92	Running	Manual	Available memory buffer 256-byte bl...	Available memory buffer 256-byte ...
91	Running	Manual	Available memory buffer 1550-byte ...	Available memory buffer 1550-byte...

Cisco ASA
General
Interface
Memory pool
Tunnels
Tunnel Phase-1 global incomi
Tunnel Phase-1 global incomi
Tunnel Phase-1 global outgoi
Tunnel Phase-1 global outgoi
Tunnel Phase-1 global total d
Tunnel Phase-1 global total tr
Tunnel Phase-1 incoming dro
Tunnel Phase-1 incoming traf
Tunnel Phase-1 outgoing dro
Tunnel Phase-1 outgoing traf
Tunnel Phase-1 total droppe
Tunnel Phase-1 total traffic
Tunnel Phase-2 global incomi
Tunnel Phase-2 global incomi
Tunnel Phase-2 global outgoi
Tunnel Phase-2 global outgoi
Tunnel Phase-2 global total d

JALATECHSUPPORT\administrator | Connected to 10.31.80.62:8181 | TCP channel

Schedule

You can set the interval between each execution of the rule. This can vary within a range of seconds, minutes or days. When setting this step take into account that a short interval will consume more system resources.

Rules

Cisco ASA performance and status rules[1]

General

Attempt failed TCP connections
Available memory buffer 1550-byte
Available memory buffer 256-byte
Available memory buffer 4-byte
Available memory buffer 65536-byte

Available memory buffer 80-byte
Connections currently in use
CPU load
Device availability
Established TCP connections
Failover status
Highest number of connections
Open active TCP connections
Open TCP connections
Primary unit status
Secondary unit status
System uptime
UDP open ports

Interface

Bandwidth percentage
Failed reassembly requests
Fragmentation failed
Fragments created
Incoming discarded packets
Incoming error packets
Incoming segments
Incoming traffic
Interface operational status
Outgoing discarded packets
Outgoing error packets
Outgoing segments
Outgoing traffic
Reassembly requests
Total discarded packets
Total error packets
Total segments
Total traffic

Memory Pool

Memory pool free memory

Sessions

Active email proxy sessions
Active IPSec sessions
Active LAN to LAN sessions
Active Load balancing sessions
Active SVC sessions
Active webVPN sessions
Email proxy sessions incoming dropped packets
Email proxy sessions incoming traffic
Email proxy sessions outgoing dropped packets
Email proxy sessions outgoing traffic
Email proxy sessions total dropped packets
Email proxy sessions total traffic
IPSec sessions incoming dropped packets
IPSec sessions incoming traffic
IPSec sessions outgoing dropped packets
IPSec sessions outgoing traffic
IPSec sessions total dropped packets
IPSec sessions total traffic
LAN to LAN sessions incoming dropped packets
LAN to LAN sessions incoming traffic
LAN to LAN sessions outgoing dropped packets
LAN to LAN sessions outgoing traffic
LAN to LAN sessions total dropped packets
LAN to LAN sessions total traffic
Load Balancing sessions incoming dropped packets
Load Balancing sessions incoming traffic
Load Balancing sessions outgoing dropped packets
Load Balancing sessions outgoing traffic
Load Balancing sessions total dropped packets
Load Balancing sessions total traffic
Sessions global incoming dropped packets
Sessions global incoming traffic
Sessions global outgoing dropped packets
Sessions global outgoing traffic
Sessions global total dropped packets
Sessions global total traffic
SVC sessions incoming dropped packets
SVC sessions incoming traffic
SVC sessions outgoing dropped packets
SVC sessions outgoing traffic
SVC sessions total dropped packets
SVC sessions total traffic
WebVPN sessions incoming dropped packets
WebVPN sessions incoming traffic
WebVPN sessions outgoing dropped packets
WebVPN sessions outgoing traffic
WebVPN sessions total dropped packets
WebVPN sessions total traffic

Tunnels

Tunnels phase-1 global incoming dropped packets
Tunnels phase-1 global incoming traffic
Tunnels phase-1 global outgoing dropped packets
Tunnels phase-1 global outgoing traffic
Tunnels phase-1 global total dropped packets
Tunnels phase-1 global total traffic
Tunnels phase-1 incoming dropped packets
Tunnels phase-1 incoming traffic

Tunnels phase-1 outgoing dropped packets
Tunnels phase-1 outgoing traffic
Tunnels phase-1 total dropped packets
Tunnels phase-1 total traffic
Tunnels phase-2 global incoming dropped packets
Tunnels phase-2 global incoming traffic
Tunnels phase-2 global outgoing dropped packets
Tunnels phase-2 global outgoing traffic
Tunnels phase-2 global total dropped packets
Tunnels phase-2 global total traffic
Tunnels phase-2 incoming dropped packets
Tunnels phase-2 incoming traffic
Tunnels phase-2 outgoing dropped packets
Tunnels phase-2 outgoing traffic
Tunnels phase-2 total dropped packets
Tunnels phase-2 total traffic

1 Some rules may not be applicable to specific device models.

Supported Models

The Xian NM 2012 Smart Management Pack for Cisco ASA supports almost all types of the Cisco ASA Series. If you want to obtain the updated list of supported devices or if you are interested in adding support for new models, please contact us

System Requirements

Minimum requirements to install Xian NM Smart Management Pack for Cisco ASA for Microsoft System Center Operations Manager are:
- Windows server 2008 SP1 or higher
- SQL Server 2005 SP1 or higher
- .NET Frameworks 4.0 or higher
- Message queuing 2.0 or higher
- System Center Operations Manager 2007 R2 or 2012
- SNMP connectivity to the devices that need to be monitored