

Network & System Monitoring with Nagios & Cacti

Kevin Mueller

Overview

- Nagios
 - Used for alerting based on thresholds
 - Host status, CPU Utilization, Disk Space, Bandwidth, Load, Interface Status
- Cacti
 - Used for historical graphing
 - CPU Utilization, Disk Space, Bandwidth, Load

Agenda

- Nagios Application Install
- Cacti Application Install
- Cacti Basics
- Nagios Basics
- Summary
- Questions

Prerequisites

- Unix server running your favorite Distro
- LAMP Configuration
 - Linux
 - Apache
 - MySQL
 - PHP

Nagios Install

- Install packages for Ubuntu

```
sudo apt-get install nagios3 nagios-snmp-plugins nagios-  
plugins-extra
```

```
sudo /etc/init.d/apache2 restart
```

```
cd /etc/nagios3/
```

```
sudo htpasswd -c htpasswd.users nagiosadmin
```

- Open a web browser and point to
<http://servername/nagios3/>

Cacti Install

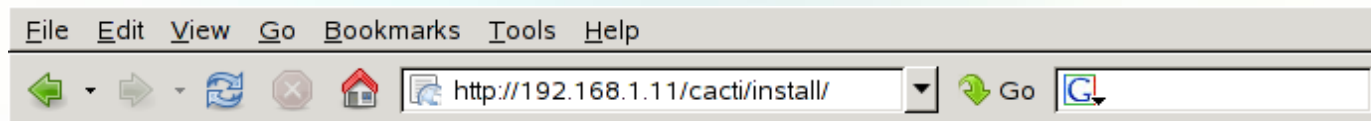
- Install packages for Ubuntu

```
sudo apt-get install cacti cacti-spine  
sudo /etc/init.d/apache2 restart
```

- Open a web browser and point to `http://servername/cacti/`

Cacti Basics

Cacti Configuration



Cacti Installation Guide

Thanks for taking the time to download and install cacti, the complete graphing solution for your network. Before you can start making cool graphs, there are a few pieces of data that cacti needs to know.

Make sure you have read and followed the required steps needed to install cacti before continuing. Install information can be found for [Unix](#) and [Win32](#)-based operating systems.

Also, if this is an upgrade, be sure to reading the [Upgrade](#) information file.

Cacti is licensed under the GNU General Public License, you must agree to its provisions before continuing:

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

[Next >>](#)

Done

Cacti Configuration

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/install/index Go

Cacti Installation Guide

Please select the type of installation

New Install

The following information has been determined from Cacti's configuration file. If it is not correct, please edit 'include/config.php' before continuing.

Database User: cacti
Database Hostname:
Database: cacti
Server Operating System Type: unix

Next >>

Done

Cacti Configuration

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/install/index Go

Cacti Installation Guide

Make sure all of these values are correct before continuing.

[FOUND] **RRDTool Binary Path:** The path to the rrdtool binary.
/usr/bin/rrdtool
[OK: FILE FOUND]

[FOUND] **PHP Binary Path:** The path to your PHP binary file (may require a php recompile to get this file).
/usr/bin/php
[OK: FILE FOUND]

[FOUND] **snmpwalk Binary Path:** The path to your snmpwalk binary.
/usr/bin/snmpwalk
[OK: FILE FOUND]

[FOUND] **snmpget Binary Path:** The path to your snmpget binary.
/usr/bin/snmpget
[OK: FILE FOUND]

[FOUND] **snmpbulkwalk Binary Path:** The path to your snmpbulkwalk binary.
/usr/bin/snmpbulkwalk
[OK: FILE FOUND]

[FOUND] **snmpgetnext Binary Path:** The path to your snmpgetnext binary.
/usr/bin/snmpgetnext
[OK: FILE FOUND]

[FOUND] **Cacti Log File Path:** The path to your Cacti log file.
/var/log/cacti/cacti.log
[OK: FILE FOUND]

SNMP Utility Version: The type of SNMP you have installed. Required if you are using SNMP v2c or don't have embedded SNMP support in PHP.
NET-SNMP 5.x

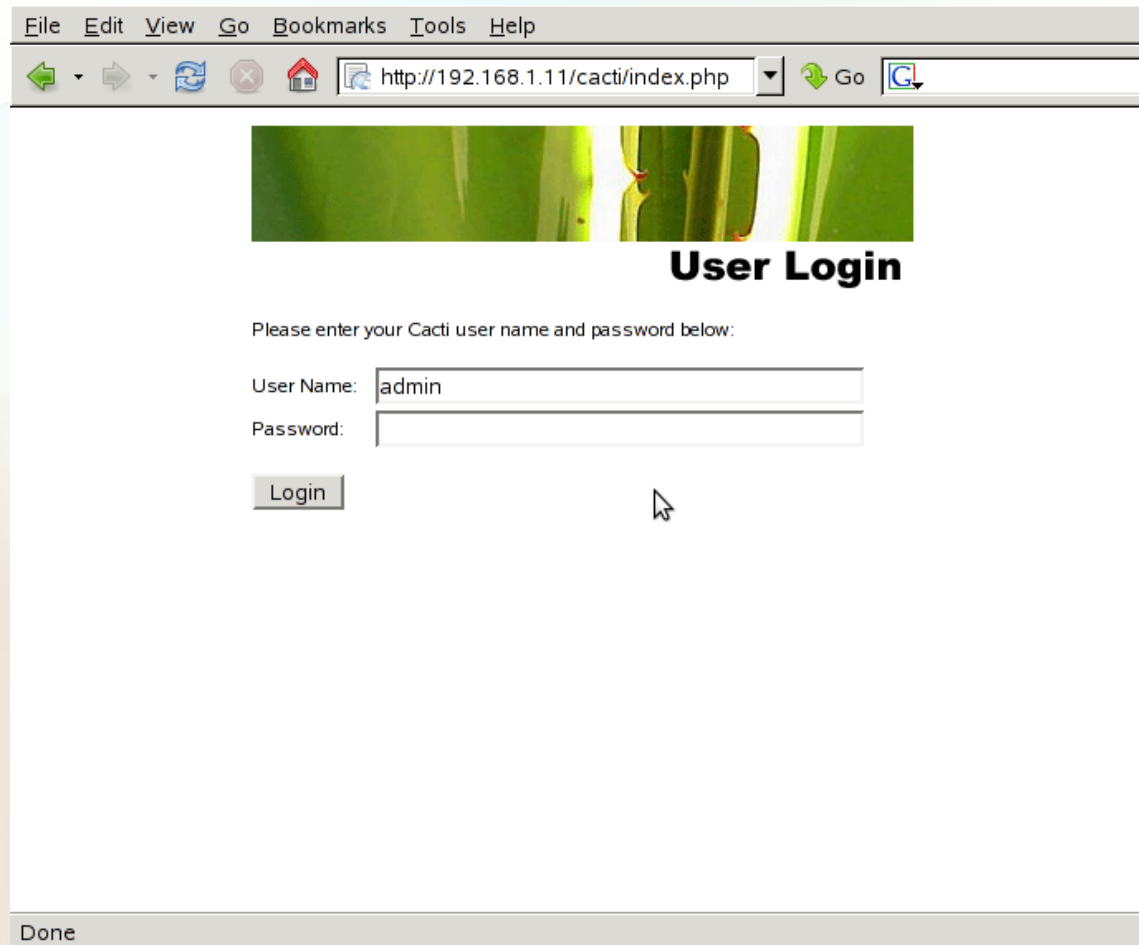
RRDTool Utility Version: The version of RRDTool that you have installed.
RRDTool 1.2.x

NOTE: Once you click "Finish", all of your settings will be saved and your database will be upgraded if this is an upgrade. You can change any of the settings on this screen at a later time by going to "Cacti Settings" from within Cacti.

Finish

Done

Cacti Configuration



The screenshot shows a web browser window with the address bar displaying `http://192.168.1.11/cacti/index.php`. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, and Help. The main content area features a green banner image of cacti, followed by the heading **User Login**. Below the heading, a message reads: "Please enter your Cacti user name and password below:". There are two input fields: "User Name:" containing the text "admin" and "Password:". A "Login" button is positioned below the password field. A mouse cursor is visible near the button. The browser's status bar at the bottom shows the word "Done".

File Edit View Go Bookmarks Tools Help

<http://192.168.1.11/cacti/index.php> Go



User Login

Please enter your Cacti user name and password below:

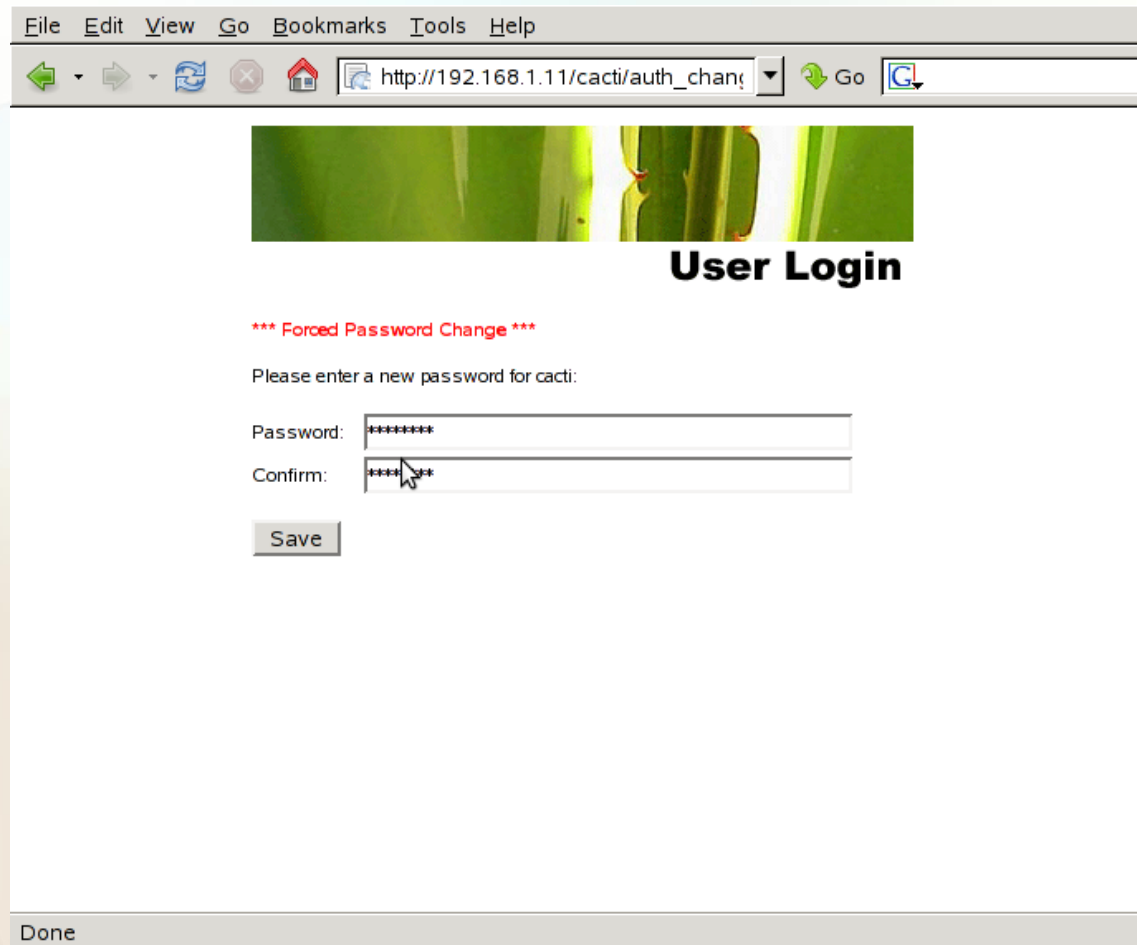
User Name:

Password:

Login

Done

Cacti Configuration



The screenshot shows a web browser window with the address bar displaying `http://192.168.1.11/cacti/auth_chan`. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, and Help. The main content area features a green banner image of cacti, followed by the heading "User Login". Below this, a red message states "*** Forced Password Change ***". A prompt asks the user to "Please enter a new password for cacti:". There are two input fields: "Password:" and "Confirm:", both containing masked text (asterisks). A mouse cursor is positioned over the "Confirm:" field. A "Save" button is located below the input fields. The browser's status bar at the bottom shows the word "Done".

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/auth_chan Go



User Login

*** Forced Password Change ***

Please enter a new password for cacti:

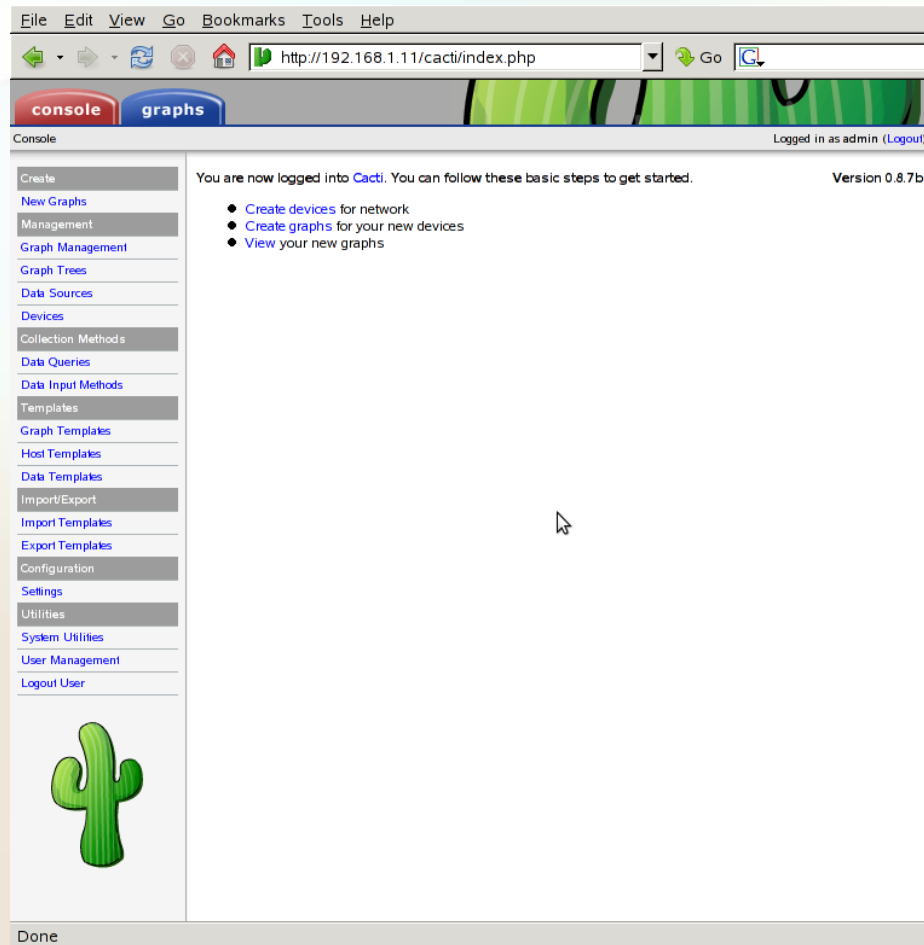
Password:

Confirm:

Save

Done

Cacti Configuration



Cacti Data Templates

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/data_templates.php

console graphs

Console -> Data Templates Logged in as admin (Logout)

Create
New Graphs
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Configuration
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User Management
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Data Templates Add

Search: go clear

<< Previous Showing Rows 1 to 30 of 41 [1,2] Next >>

Template Name**	Data Input Method	Status	
Cisco Router - 5 Minute CPU	Get SNMP Data	Active	☐
Host MIB - CPU Utilization	Get Script Server Data (Indexed)	Active	☐
Host MIB - Hard Drive Space	Get Script Server Data (Indexed)	Active	☐
Host MIB - Logged in Users	Get SNMP Data	Active	☐
Host MIB - Processes	Get SNMP Data	Active	☐
Interface - Errors/Discards	Get SNMP Data (Indexed)	Active	☐
Interface - Non-Unicast Packets	Get SNMP Data (Indexed)	Active	☐
Interface - Traffic	Get SNMP Data (Indexed)	Active	☐
Interface - Unicast Packets	Get SNMP Data (Indexed)	Active	☐
Karlnet - Noise Level	Get SNMP Data (Indexed)	Active	☐
Karlnet - Signal Level	Get SNMP Data (Indexed)	Active	☐
Karlnet - Wireless Re-Transmits	Get SNMP Data (Indexed)	Active	☐
Karlnet - Wireless Transmits	Get SNMP Data (Indexed)	Active	☐
Linux - Memory - Free	Linux - Get Memory Usage	Active	☐
Linux - Memory - Free Swap	Linux - Get Memory Usage	Active	☐
Network - Cache Checks	Get SNMP Data	Active	☐
Network - Cache Hits	Get SNMP Data	Active	☐
Network - CPU Utilization	Get SNMP Data (Indexed)	Active	☐
Network - Directory Entries	Get SNMP Data (Indexed)	Active	☐
Network - File System Reads	Get SNMP Data	Active	☐
Network - File System Writes	Get SNMP Data	Active	☐
Network - Open Files	Get SNMP Data	Active	☐
Network - Total Logins	Get SNMP Data	Active	☐
Network - Total Users	Get SNMP Data	Active	☐
Network - Volumes	Get SNMP Data (Indexed)	Active	☐
SNMP - Generic OID Template	Get SNMP Data	Active	☐
ucd/net - CPU Usage - Nice	Get SNMP Data	Active	☐
ucd/net - CPU Usage - System	Get SNMP Data	Active	☐
ucd/net - CPU Usage - User	Get SNMP Data	Active	☐
ucd/net - Hard Drive Space	Get SNMP Data (Indexed)	Active	☐

<< Previous Showing Rows 1 to 30 of 41 [1,2] Next >>

Choose an action: Delete go

Done

Cacti Devices

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/host.php

console graphs

Console -> Devices Logged in as admin (Logout)

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Utilities
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User Management
Logout User

Devices

Type: Any Status: Any Rows: 30 Rows Search: go clear

<< Previous Showing Rows 1 to 1 of 1 [1] Next >>

Description**	ID	Graphs	Data Sources	Status	Event Count	Hostname	Current (ms)	Average (ms)	Availability
localhost	1	4	5	Up	0	127.0.0.1	0.07	0.14	100

<< Previous Showing Rows 1 to 1 of 1 [1] Next >>

Choose an action: Delete go

Done

Cacti New Device

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/host.php?action=edit&host_template_id=-1&host_status=-1 Go

console graphs

Console -> Devices -> (Edit) Logged in as admin (Logout)

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Devices [new]

Description
Give this host a meaningful description.

Hostname
Fully qualified hostname or IP address for this device.

Host Template
Choose what type of host, host template this is. The host template will govern what kinds of data should be gathered from this type of host.

Notes
Enter notes to this host.

Disable Host
Check this box to disable all checks for this host. ☐ Disable Host

Availability/Reachability Options

Downed Device Detection
The method Cacti will use to determine if a host is available for polling.
NOTE: It is recommended that, at a minimum, SNMP always be selected.

Ping Method
The type of ping packet to sent.
NOTE: ICMP on Linux/UNIX requires root privileges.

Ping Timeout Value
The timeout value to use for host ICMP and UDP pinging. This host SNMP timeout value applies for SNMP pings.

Ping Retry Count
The number of times Cacti will attempt to ping a host before failing.

SNMP Options

SNMP Version
Choose the SNMP version for this device.

SNMP Community
SNMP read community for this device.

SNMP Port
Enter the UDP port number to use for SNMP (default is 161).

SNMP Timeout
The maximum number of milliseconds Cacti will wait for an SNMP response (does not work with php-snmp support).

Maximum OIDs Per Get Request
Specified the number of OIDs that can be obtained in a single SNMP Get request.
NOTE: This feature only works when using Spine

Done

Cacti Host

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/host.php?action=edit&host_template_id=-1&host_status=-1 Go

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- Export Templates
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- Settings
- Utilities
- System Utilities
- User Management
- Logout User



Devices [new]

Description
Give this host a meaningful description.

Hostname
Fully qualified hostname or IP address for this device.

Host Template
Choose what type of host, host template this is. The host template will govern what kinds of data should be gathered from this type of host.

Notes
Enter notes to this host.

Disable Host
Check this box to disable all checks for this host. ☐ Disable Host

Availability/Reachability Options

Downed Device Detection
The method Cacti will use to determine if a host is available for polling.
NOTE: It is recommended that, at a minimum, SNMP always be selected.

Ping Timeout Value
The timeout value to use for host ICMP and UDP ping. This host SNMP timeout value applies for SNMP pings.

Ping Retry Count
The number of times Cacti will attempt to ping a host before failing.

SNMP Options

SNMP Version
Choose the SNMP version for this device.

SNMP Community
SNMP read community for this device.

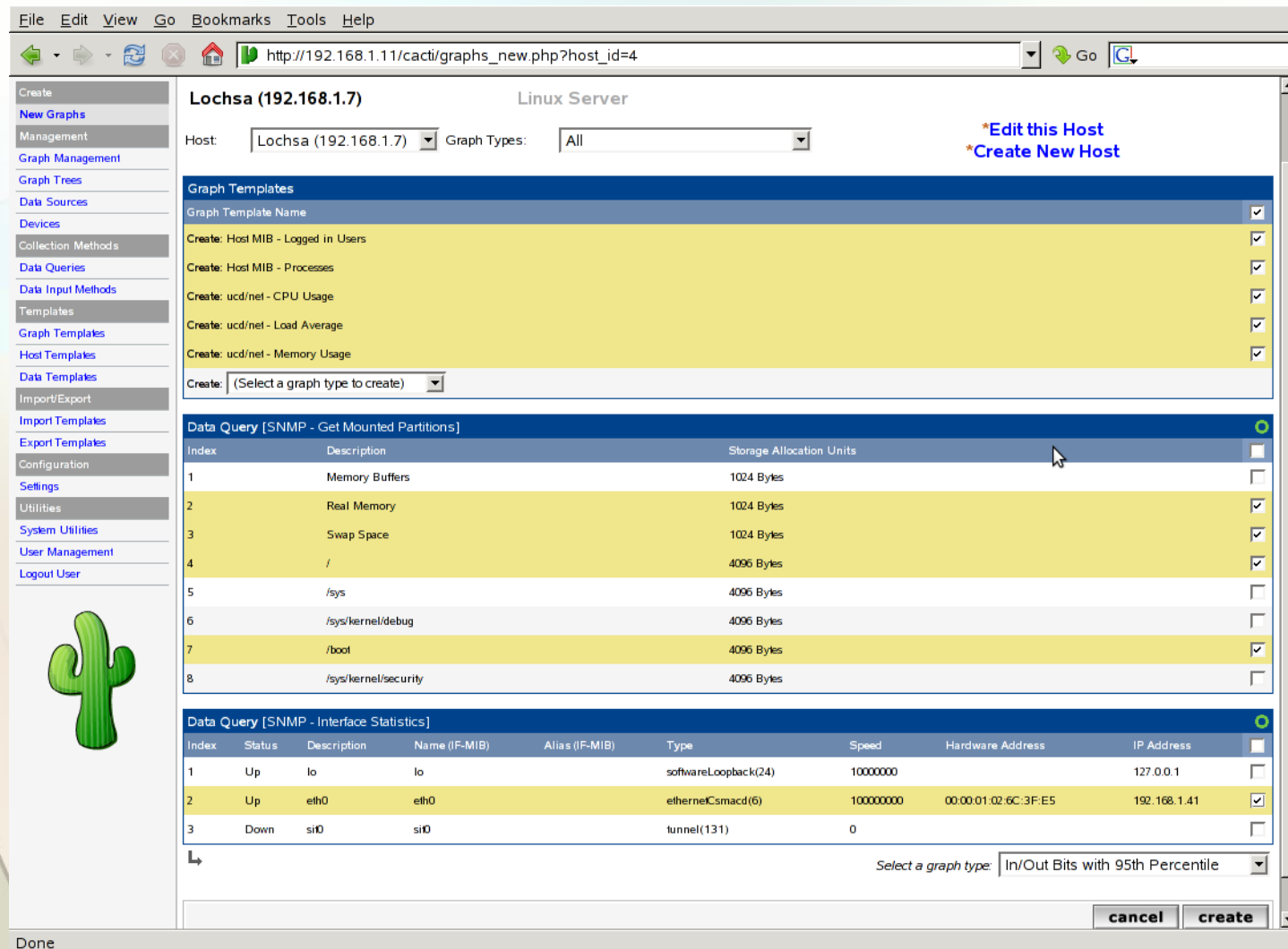
SNMP Port
Enter the UDP port number to use for SNMP (default is 161).

SNMP Timeout
The maximum number of milliseconds Cacti will wait for an SNMP response (does not work with php-snmp support).

Maximum OID's Per Get Request
Specified the number of OID's that can be obtained in a single SNMP Get request.
NOTE: This feature only works when using Spine

Done

Cacti Create Graphs



The screenshot shows the Cacti web interface for creating graphs. The browser address bar shows `http://192.168.1.11/cacti/graphs_new.php?host_id=4`. The page title is "Lochsa (192.168.1.7) Linux Server".

Host: Lochsa (192.168.1.7) **Graph Types:** All

[*Edit this Host](#)
[*Create New Host](#)

Graph Templates

Graph Template Name	
Create: Host MIB - Logged in Users	☒
Create: Host MIB - Processes	☒
Create: ucd/net - CPU Usage	☒
Create: ucd/net - Load Average	☒
Create: ucd/net - Memory Usage	☒
Create: (Select a graph type to create)	☐

Data Query [SNMP - Get Mounted Partitions]

Index	Description	Storage Allocation Units	
1	Memory Buffers	1024 Bytes	☐
2	Real Memory	1024 Bytes	☒
3	Swap Space	1024 Bytes	☒
4	/	4096 Bytes	☒
5	/sys	4096 Bytes	☐
6	/sys/kernel/debug	4096 Bytes	☐
7	/boot	4096 Bytes	☒
8	/sys/kernel/security	4096 Bytes	☐

Data Query [SNMP - Interface Statistics]

Index	Status	Description	Name (IF-MIB)	Alias (IF-MIB)	Type	Speed	Hardware Address	IP Address	
1	Up	lo	lo		softwareLoopback(24)	10000000		127.0.0.1	☐
2	Up	eth0	eth0		etherneCsmacd(6)	100000000	00:00:01:02:6C:3F:E5	192.168.1.41	☒
3	Down	si0	si0		tunnel(131)	0			☐

Select a graph type: In/Out Bits with 95th Percentile

Done

Cacti Graph Tree

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/tree.php?action=edit&id=1

console graphs

Console -> Graph Trees -> (Edit) Logged in as admin (Logout)

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Graph Trees [edit: Default Tree]

Name
A useful name for this graph tree.

Sorting Type
Choose how items in this tree will be sorted.

Tree Items Add

Item	Value
Host: Localhost (127.0.0.1) (Edit host)	Host ↑ ↓ X

Done

Cacti Graph Tree

File Edit View Go Bookmarks Tools Help

http://192.168.1.11/cacti/tree.php?action=item_edit&parent_id=0&tree_id=1&type_select=3 Go

console graphs

Console -> Graph Trees -> (Edit) -> Graph Tree Items Logged in as admin (Logout)

Create

New Graphs

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Tree Items

Parent Item
Choose the parent for this header/graph. [root]

Tree Item Type
Choose what type of tree item this is. Host

Tree Item Value

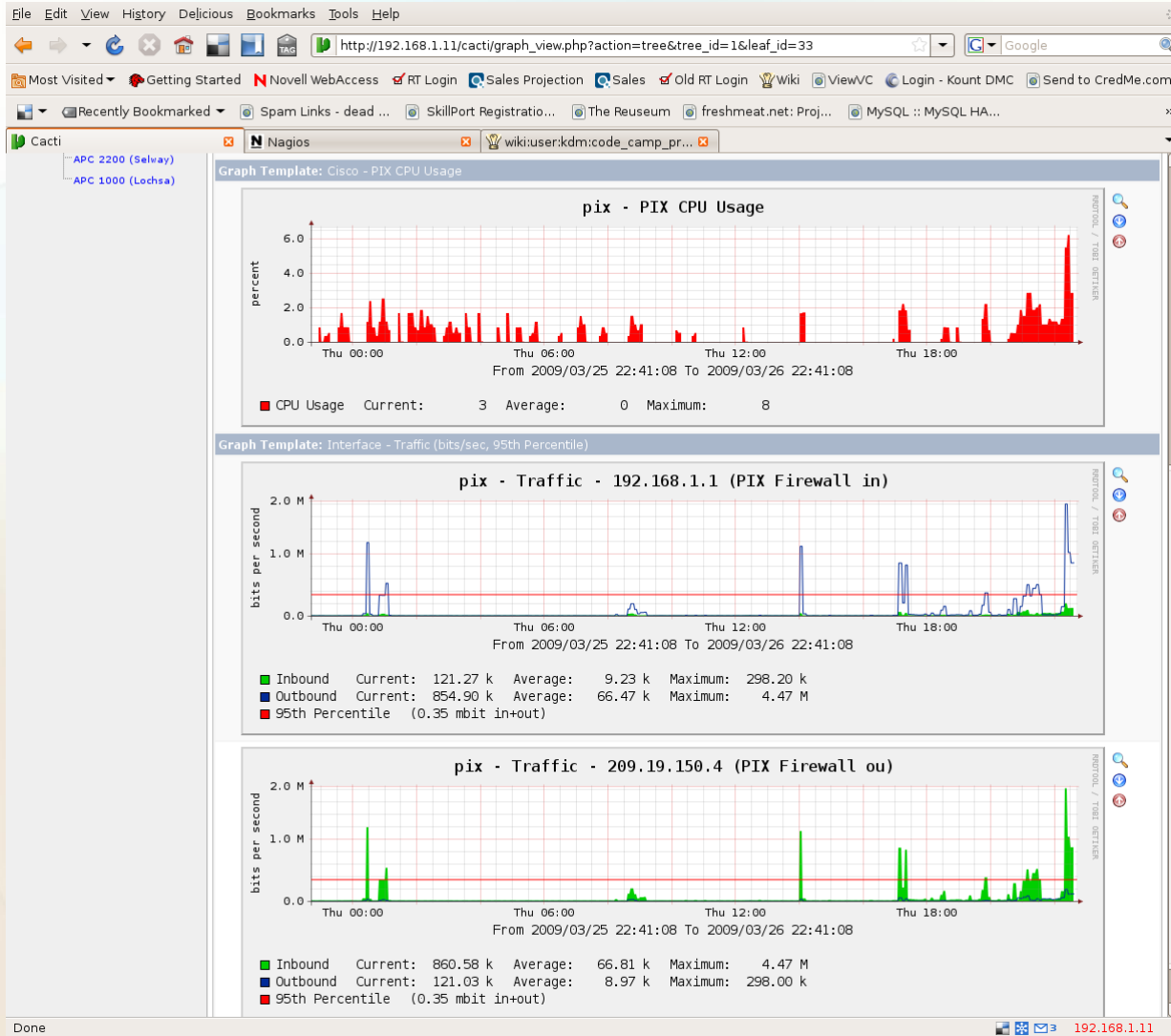
Host
Choose a host here to add it to the tree. c3512-a (192.168.1.2)

Graph Grouping Style
Choose how graphs are grouped when drawn for this particular host on the tree. Graph Template

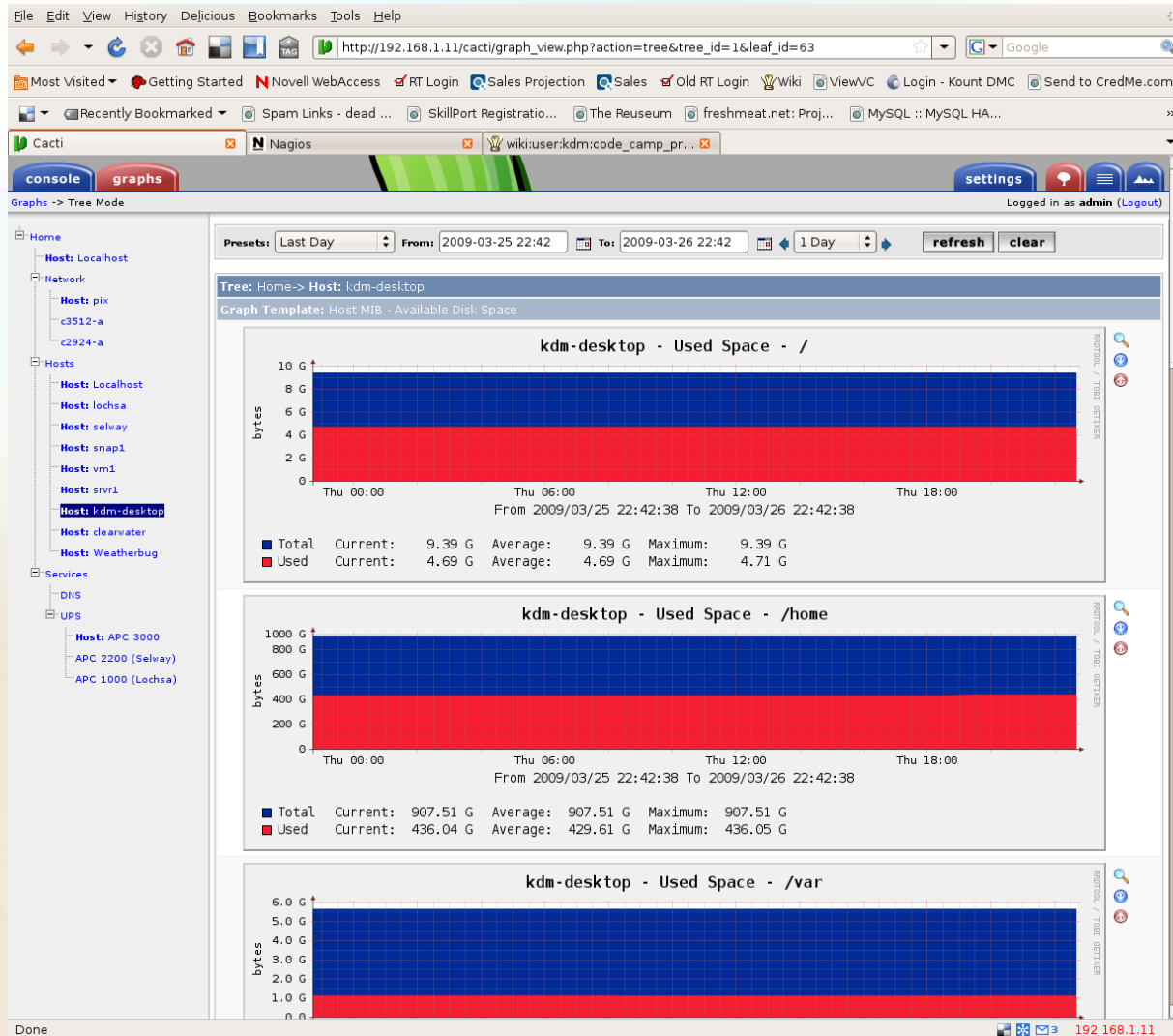
cancel create

Done

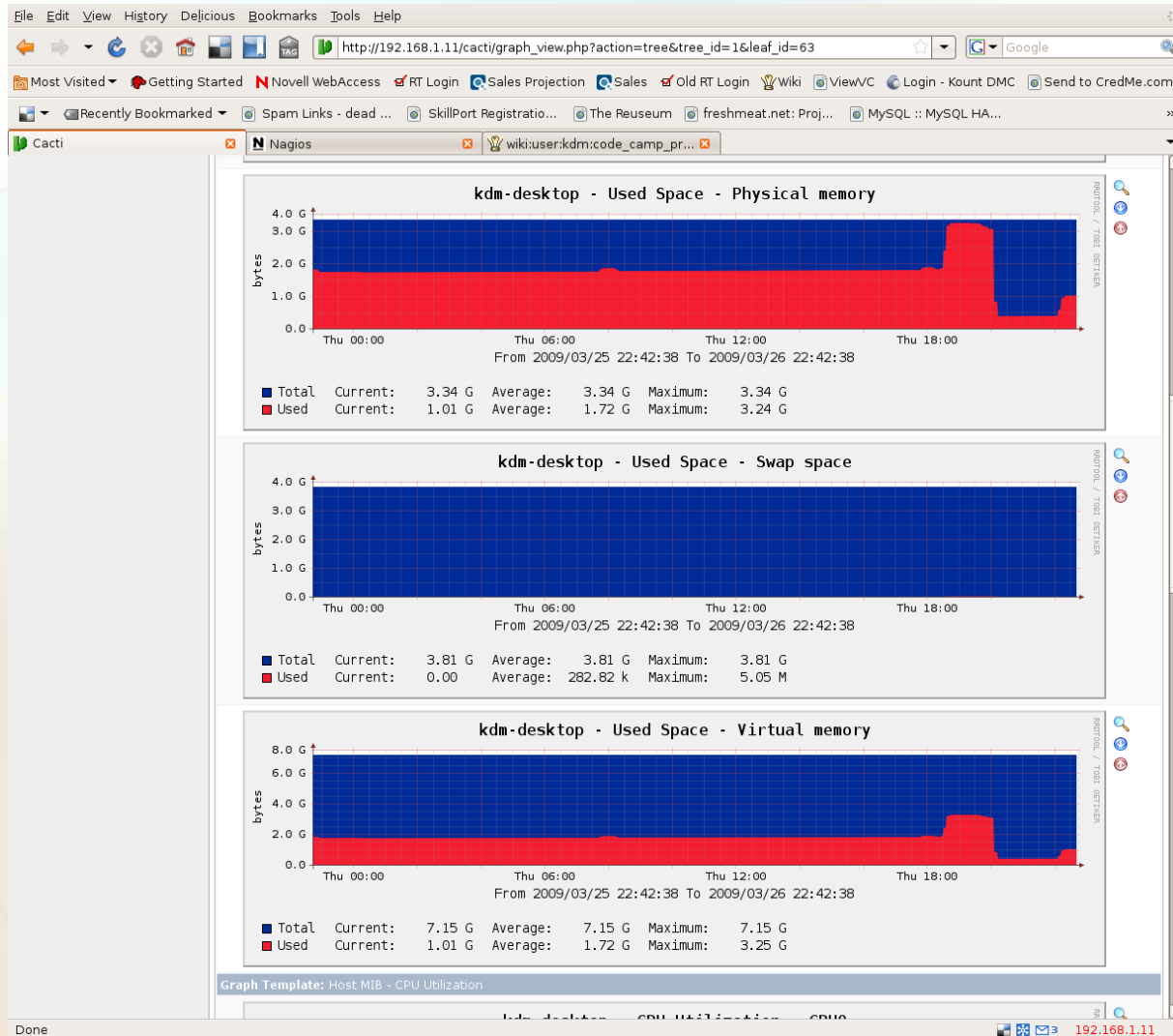
Cacti Graphs



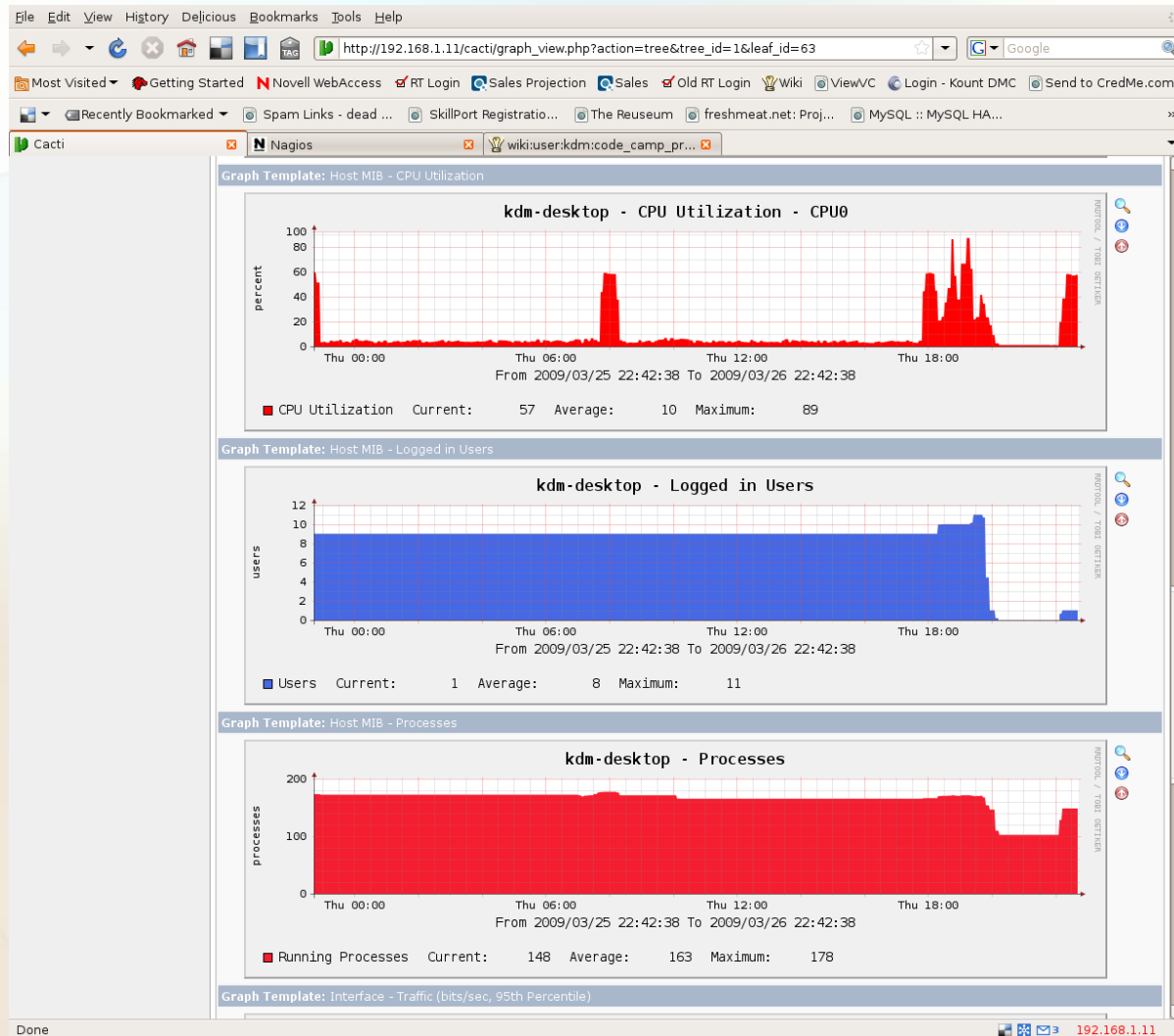
Cacti Graphs



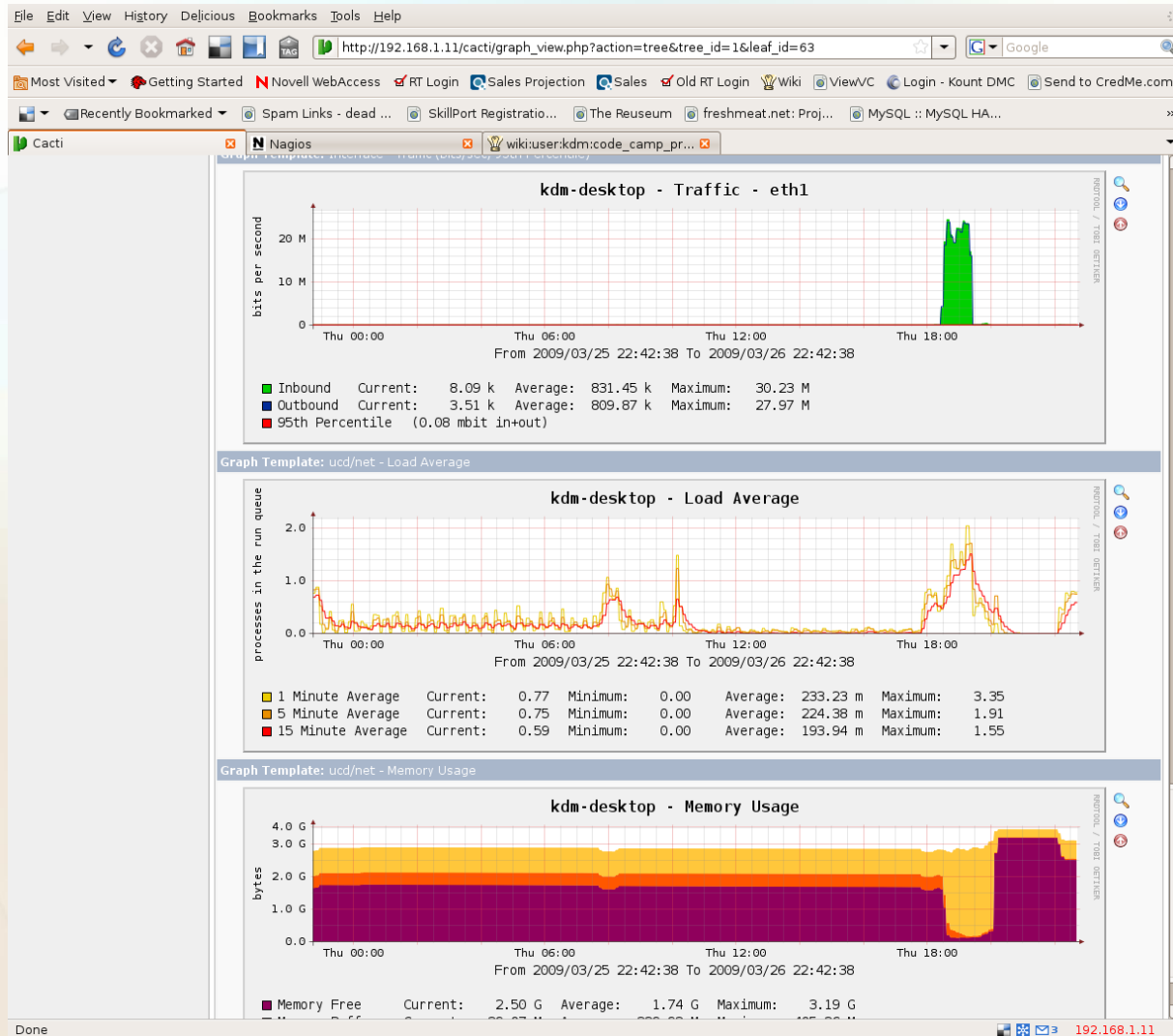
Cacti Graphs



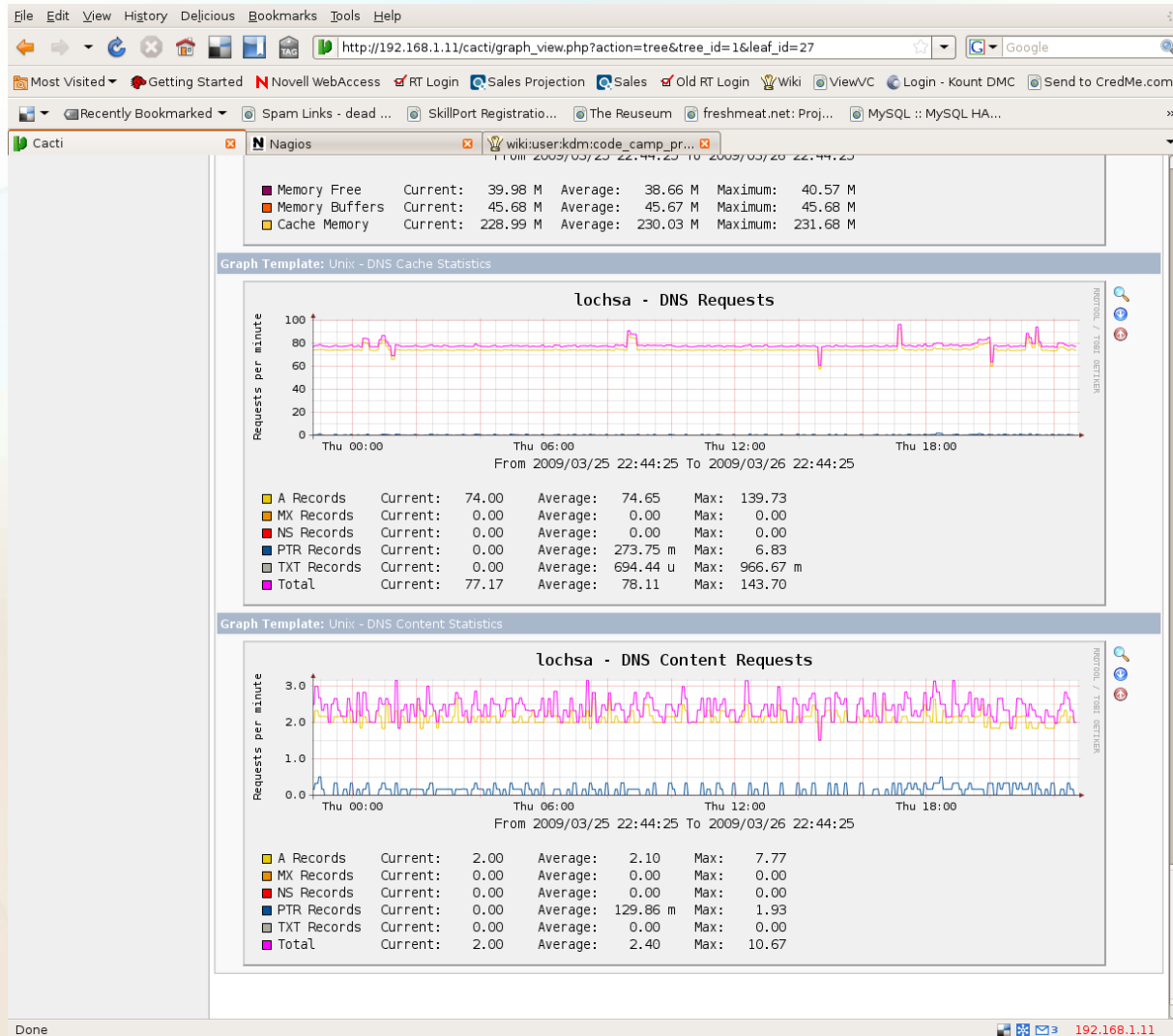
Cacti Graphs



Cacti Graphs



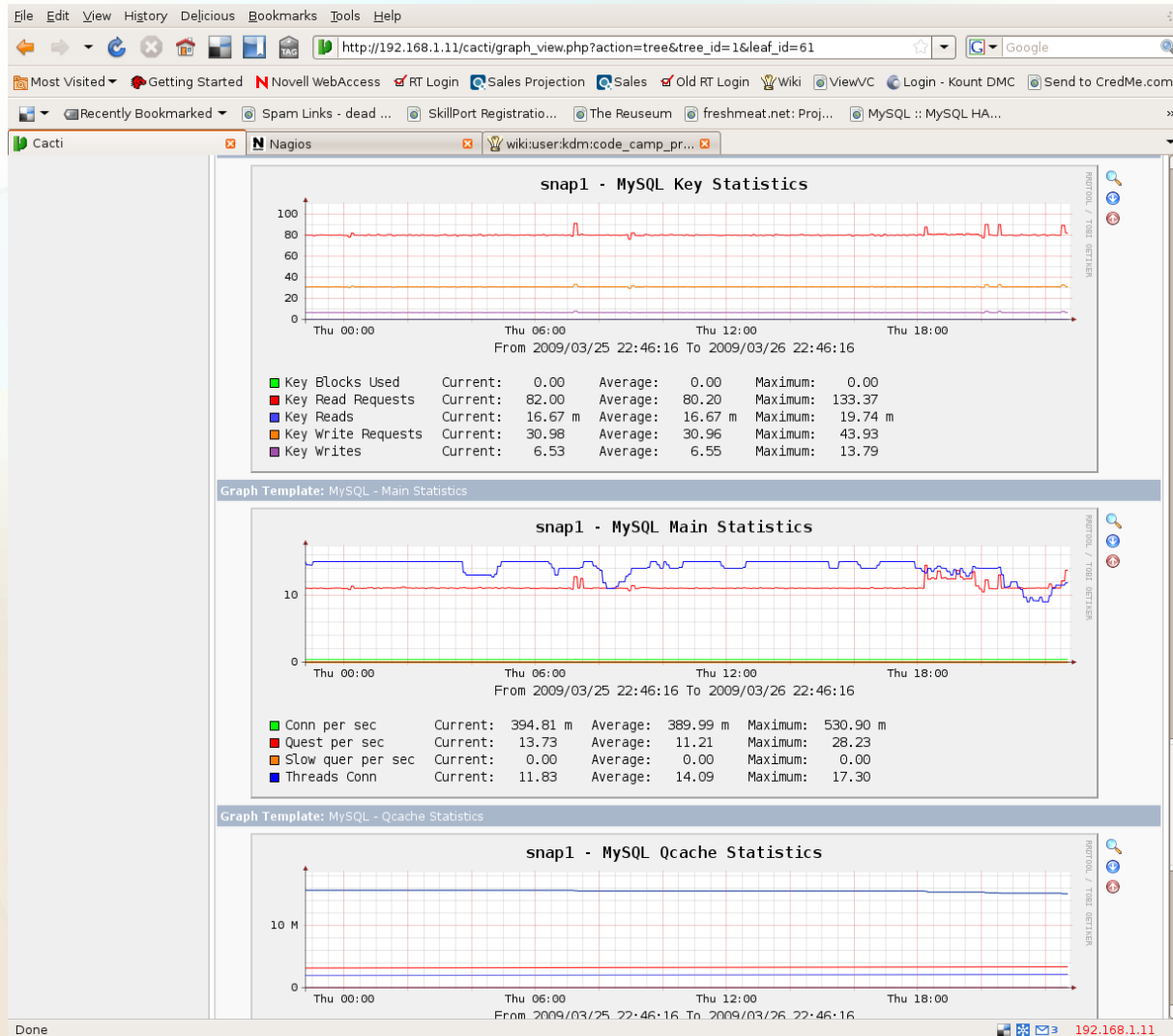
Cacti Graphs



Cacti Graphs



Cacti Graphs



Nagios Basics

Nagios Configuration

- Object based configuration files with inheritance
- Objects
 - Host
 - Host Group
 - Service
 - Service Group
 - Time Periods
 - Contact
 - Contact Group
 - Extended Host Info
 - Extended Service Info
 - Command Definitions

Time Periods

```
define timeperiod {  
    timeperiod_name    24x7  
    alias               24x7  
    sunday              00:00-24:00  
    monday              00:00-24:00  
    tuesday             00:00-24:00  
    wednesday           00:00-24:00  
    ...  
}
```

Contacts

```
define contact {  
    contact_name            kdm  
    alias                   Kevin Mueller  
    service_notification_period 24x7  
    host_notification_period  24x7  
    service_notification_options w,u,c,r  
    host_notification_options  d,r  
    service_notification_commands notify-service-by-email  
    host_notification_commands  notify-host-by-email  
    email                    email@address.com  
}
```

Contact Group

```
define contactgroup {  
    contactgroup_name    admins  
    alias                 Administrators  
    members              kdm, root  
}
```

Commands

```
define command {  
    command_name      check_snmp_storage_v1  
    command_line      $USER1$/check_snmp_storage.pl -H  
$HOSTADDRESS$ -C $ARG4$ -m $ARG1$ -r -w $ARG2$ -c $ARG3$  
}
```

```
define command {  
    command_name      check_ssh_4  
    command_line      /usr/lib/nagios/plugins/check_ssh -4  
$HOSTADDRESS$  
}
```

Host Template

```
define host {  
    name                                generic-host  
    notifications_enabled                1  
    retain_status_information            1  
    retain_nonstatus_Information         1  
        check_command                   check-host-alive  
        max_check_attempts               10  
        notification_interval            10  
        notification_period              24x7  
        notification_options             d,u,r  
        contact_groups                   admins  
    register                             0  
}
```

Service Template

```
define service {  
    name generic-service  
    active_checks_enabled 1  
    passive_checks_enabled 1  
    parallelize_check 1  
    obsess_over_service 1  
    check_freshness 0  
    notifications_enabled 1  
    retain_status_information 1  
    retain_nonstatus_Information 1  
        notification_interval 10  
        is_volatile 1  
        normal_check_interval 3  
        retry_check_interval 1  
        max_check_attempts 4  
        notification_period 24x7  
        notification_options w,u,c,r  
        contact_groups admins  
    register 0  
}
```

Host Extended Info

```
define hostextinfo {  
    hostgroup_name      cisco  
    name                cisco  
    icon_image          cisco.gif  
    icon_image_alt      Cisco IOS  
    vrml_image          cisco.gif  
    gd2_mage            cisco.gd2  
    register            0  
}
```

Host Definition

```
define host {  
    host_name      pix  
    alias          PIX Firewall  
    address        192.168.1.1  
    use            generic-host  
    parents        c3512-a  
}
```

Service Definition

```
define service {  
    use                generic-service  
    host_name          pix  
    service_description SSH  
    check_command       check_ssh_4  
}  
  
define service {  
    use                generic-service  
    host_name          snap1  
    service_description Disk Space  
    check_command       check_snmp_storage_v1!/home!80!90!public
```

HostGroup/ServiceGroup Definition

```
define hostgroup {  
    hostgroup_name    ubuntu-servers  
    alias             Ubuntu Linux Servers  
    members           snap1, srvr1  
}  
  
define servicegroup {  
    servicegroup_name ssh-servers  
    alias             SSH Services  
    members           snap1,SSH,srvr1,SSH  
}
```

Nagios Basics

File Edit View History Delicious Bookmarks Tools Help

http://192.168.1.11/nagios3/

Most Visited Getting Started Novell WebAccess RT Login Sales Projection Sales Old RT Login Wiki

Recently Bookmarked Spam Links - dead ... SkillPort Registratio... The Reuseum

Cacti Nagios

Nagios®

Version 3.0.2
May 19, 2008
[Read what's new in Nagios 3](#)

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Need help with Nagios?

A variety of worldwide support options are available to help you get Nagios up and running quickly. Visit www.nagios.org/support/ for information on:

- Installation
- Configuration
- Performance Tuning
- Integration
- Customization



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Done 192.168.1.11

General

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Monitoring

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- Host Detail
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- Hostgroup Grid
- Servicegroup Overview
- Servicegroup Summary
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- Scheduling Queue

Reporting

- Trends
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- Alert History
- Alert Summary
- Notifications
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Configuration

- View Config

Nagios Tactical Overview

File Edit View History Delicious Bookmarks Tools Help

http://192.168.1.11/nagios3/

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Recently Bookmarked Spam Links - dead ... SkillPort Registratio... The Reuseum freshmeat.net: Proj...

Cacti Nagios

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Show Host:

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Tactical Monitoring Overview

Last Updated: Thu Mar 26 20:37:49 MDT 2009
Updated every 90 seconds
Nagios® 3.0.2 - www.nagios.org
Logged in as: [nagiosadmin](#)

Monitoring Performance

Service Check Execution Time: 0.01 / 4.05 / 0.446 sec
Service Check Latency: 0.01 / 0.39 / 0.156 sec
Host Check Execution Time: 0.01 / 10.01 / 1.128 sec
Host Check Latency: 0.00 / 0.24 / 0.099 sec
Active Host / Service Checks: 9 / 49
Passive Host / Service Checks: 0 / 0

Network Outages

0 Outages

Network Health

Host Health: 
Service Health: 

Hosts

1 Down	0 Unreachable	8 Up	0 Pending
--------	---------------	------	-----------

1 Unhandled Problems

Services

1 Critical	2 Warning	0 Unknown	46 Ok	0 Pending
------------	-----------	-----------	-------	-----------

1 Unhandled Problems 2 Unhandled Problems

Monitoring Features

Flap Detection	Notifications	Event Handlers	Active Checks	Passive Checks
Enabled All Services Enabled No Services Flapping All Hosts Enabled No Hosts Flapping	Enabled 1 Service Disabled 1 Host Disabled	Enabled All Services Enabled All Hosts Enabled	Enabled All Services Enabled All Hosts Enabled	Enabled All Services Enabled All Hosts Enabled

http://192.168.1.11/cgi-bin/nagios3/tac.cgi

192.168.1.11

Nagios Host Detail

File Edit View History Delicious Bookmarks Tools Help

http://192.168.1.11/nagios3/

Most Visited Getting Started Novell WebAccess RT Login Sales Projection Sales Old RT Login Wiki

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- Unhandled
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Current Network Status

Last Updated: Thu Mar 26 20:38:13 MDT 2009
Updated every 90 seconds
Nagios® 3.0.2 - www.nagios.org
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[View Service Status Detail For All Host Groups](#)
[View Status Overview For All Host Groups](#)
[View Status Summary For All Host Groups](#)
[View Status Grid For All Host Groups](#)

Host Status Totals

Up	Down	Unreachable	Pending
46	1	0	0

All Problems: 1, All Types: 9

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
46	2	0	1	0

All Problems: 3, All Types: 49

Host Status Details For All Host Groups

Host	Status	Last Check	Duration	Status Information
2024-a	UP	2009-03-26 20:33:01	9d 6h 33m 22s	PING OK - Packet loss = 0%, RTA = 3.52 ms
3512-a	UP	2009-03-26 20:34:41	23d 6h 41m 31s	PING OK - Packet loss = 0%, RTA = 3.21 ms
clear-water	DOWN	2009-03-26 20:38:01	2d 22h 48m 18s	PING CRITICAL - Packet loss = 100%
cdm-desktop	UP	2009-03-26 20:33:11	0d 0h 30m 42s	PING OK - Packet loss = 0%, RTA = 0.34 ms
cdm10a	UP	2009-03-26 20:34:01	0d 22h 21m 42s	PING OK - Packet loss = 0%, RTA = 0.36 ms
cdm	UP	2009-03-26 20:34:41	9d 6h 51m 47s	PING OK - Packet loss = 0%, RTA = 0.41 ms
cdm10a	UP	2009-03-26 20:34:31	0d 22h 21m 39s	PING OK - Packet loss = 0%, RTA = 3.45 ms
cdm1	UP	2009-03-26 20:35:41	23d 6h 40m 16s	PING OK - Packet loss = 0%, RTA = 0.07 ms
cdm1	UP	2009-03-26 20:34:11	0d 13h 24m 42s	PING OK - Packet loss = 0%, RTA = 5.98 ms

9 Matching Host Entries Displayed

Done 192.168.1.11

Nagios Service Detail

File Edit View History Delicious Bookmarks Tools Help

http://192.168.1.11/nagios3/

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clearwater	Current Load	OK	2009-03-26 20:37:53	1d 5h 15m 43s	1/3	Load: 0.05 0.06 0.06 : OK	
	Disk Space /	OK	2009-03-26 20:37:53	2d 22h 54m 50s	1/3	/: 71%used(678MB/949MB) (<80%) : OK	
	Disk Space /home	OK	2009-03-26 20:35:58	1d 5h 14m 33s	1/3	/home: 0%used(0MB/4767MB) (<80%) : OK	
	Disk Space /usr	OK	2009-03-26 20:37:24	1d 5h 16m 17s	1/3	/usr: 33%used(1564MB/4767MB) (<80%) : OK	
	Disk Space /var	OK	2009-03-26 20:37:24	1d 5h 16m 17s	1/3	/var: 15%used(21501MB/140124MB) (<80%) : OK	
	HTTP	OK	2009-03-26 20:38:17	2d 22h 51m 16s	1/3	HTTP OK HTTP/1.1 200 OK - 824 bytes in 0.119 seconds	
kdm-desktop	SSH	OK	2009-03-26 20:37:30	2d 22h 50m 42s	1/3	SSH OK - OpenSSH_4.3 (protocol 2.0)	
	Current Load	OK	2009-03-26 20:37:24	0d 0h 31m 5s	1/3	Load: 0.00 0.00 0.05 : OK	
	Disk Space /	OK	2009-03-26 20:37:53	0d 0h 30m 36s	1/3	/: 50%used(4803MB/9613MB) (<80%) : OK	
	Disk Space /home	OK	2009-03-26 20:37:24	0d 0h 31m 5s	1/3	/home: 48%used(446510MB/929266MB) (<80%) : OK	
	Disk Space /var	OK	2009-03-26 20:37:24	0d 0h 31m 5s	1/3	/var: 20%used(1134MB/5768MB) (<80%) : OK	
	MD RAID Status	OK	2009-03-26 20:38:17	0d 0h 30m 12s	1/3	MD Raid Status OK - 0	
lochs	SSH	OK	2009-03-26 20:37:47	0d 0h 30m 42s	1/3	SSH OK - OpenSSH_5.1p1 Debian-3ubuntu1 (protocol 2.0)	
	Current Load	OK	2009-03-26 20:37:42	0d 22h 21m 58s	1/3	Load: 0.00 0.00 0.00 : OK	
	Disk Space /	OK	2009-03-26 20:38:14	0d 22h 21m 25s	1/3	/: 66%used(4803MB/7279MB) (<80%) : OK	
	Disk Space /boot	OK	2009-03-26 20:35:37	0d 22h 20m 52s	1/3	/boot: 15%used(39MB/259MB) (<80%) : OK	
	SSH	OK	2009-03-26 20:36:10	0d 22h 20m 19s	1/3	SSH OK - OpenSSH_4.2 (protocol 1.99)	
	pix	Inside Interface status	OK	2009-03-26 20:37:30	9d 6h 40m 3s	1/3	OK: Interface PIX Firewall 'inside' interface (index 2) is up.
Outside Interface status		OK	2009-03-26 20:37:15	9d 6h 42m 25s	1/3	OK: Interface PIX Firewall 'outside' interface (index 1) is up.	
PING		OK	2009-03-26 20:37:24	9d 6h 50m 46s	1/3	PING OK - Packet loss = 0%, RTA = 0.95 ms	
SSH		OK	2009-03-26 20:37:53	9d 6h 38m 8s	1/3	SSH OK - Cisco.1.25 (protocol 1.5)	
selway		Current Load	OK	2009-03-26 20:35:48	0d 11h 35m 46s	1/3	Load: 1.02 1.40 1.23 : OK
		Disk Space /	OK	2009-03-26 20:38:17	0d 11h 36m 12s	1/3	/: 77%used(12593MB/16331MB) (<80%) : OK
	Disk Space /boot	OK	2009-03-26 20:35:38	0d 11h 29m 52s	1/3	/boot: 15%used(39MB/259MB) (<80%) : OK	
	Disk Space /var/video	WARNING	2009-03-26 20:37:07	0d 11h 7m 22s	3/3	/var/video: 96%used(638004MB/667520MB) (>90%) : WARNING	
	Disk Space /var/video500	WARNING	2009-03-26 20:37:40	0d 11h 27m 49s	3/3	/var/video500: 94%used(446004MB/476810MB) (>90%) : WARNING	
	HTTP	OK	2009-03-26 20:36:15	0d 22h 20m 16s	1/3	HTTP OK HTTP/1.1 200 OK - 300 bytes in 0.002 seconds	
snap1	MySQL Server	CRITICAL	2009-03-26 20:35:47	0d 22h 19m 43s	3/3	Access denied for user 'nagios3@snap1.idahomuellers.com' (using password: YES)	
	SSH	OK	2009-03-26 20:35:22	0d 11h 30m 7s	1/3	SSH OK - OpenSSH_4.2 (protocol 1.99)	
	Current Load	OK	2009-03-26 20:37:24	1d 14h 58m 18s	1/3	Load: 0.39 0.50 0.48 : OK	
snap1	Current Users	OK	2009-03-26 20:37:15	23d 3h 33m 0s	1/3	USERS OK - 0 users currently logged in	
	Disk Space /	OK	2009-03-26 20:38:14	1d 15h 0m 18s	1/3	/: 8%used(1580MB/20319MB) (<80%) : OK	
	Disk Space /boot	OK	2009-03-26 20:38:14	1d 15h 0m 18s	1/3	/boot: 10%used(50MB/496MB) (<80%) : OK	

http://192.168.1.11/cgi-bin/nagios3/status.cgi?host=all

192.168.1.11

Nagios Host Information

File Edit View History Delicious Bookmarks Tools Help

http://192.168.1.11/nagios3/

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Last Updated: Thu Mar 26 20:40:47 MDT 2009
Updated every 90 seconds
Nagios 3.0.2 - www.nagios.org
Logged in as: nagiosadmin

[View Status Detail For This Host](#)
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Host
selway.idahomuellers.com
(selway)

Member of
[all](#), [http-servers](#), [ssh-servers](#),
[suse-servers](#)

192.168.1.8


(Suse)

Host State Information

Host Status: **UP** (for 0d 22h 24m 13s)
Status Information: PING OK - Packet loss = 0%, RTA = 0.35 ms
Performance Data:
Current Attempt: 1/10 (HARD state)
Last Check Time: 2009-03-26 20:39:41
Check Type: ACTIVE
Check Latency / Duration: 0.098 / 0.014 seconds
Next Scheduled Active Check: 2009-03-26 20:44:51
Last State Change: 2009-03-25 22:16:34
Last Notification: N/A (notification 0)
Is This Host Flapping? **NO** (0.00% state change)
In Scheduled Downtime? **NO**
Last Update: 2009-03-26 20:40:43 (0d 0h 0m 4s ago)

Active Checks: **ENABLED**
Passive Checks: **ENABLED**
Obsessing: **ENABLED**
Notifications: **ENABLED**
Event Handler: **ENABLED**
Flap Detection: **ENABLED**

Host Commands

-  [Locate host on map](#)
-  [Disable active checks of this host](#)
-  [Re-schedule the next check of this host](#)
-  [Submit passive check result for this host](#)
-  [Stop accepting passive checks for this host](#)
-  [Stop obsessing over this host](#)
-  [Disable notifications for this host](#)
-  [Send custom host notification](#)
-  [Schedule downtime for this host](#)
-  [Disable notifications for all services on this host](#)
-  [Enable notifications for all services on this host](#)
-  [Schedule a check of all services on this host](#)
-  [Disable checks of all services on this host](#)
-  [Enable checks of all services on this host](#)
-  [Disable event handler for this host](#)
-  [Disable flap detection for this host](#)

Host Comments

 [Add a new comment](#)  [Delete all comments](#)

Entry Time	Author	Comment	Comment ID	Persistent	Type	Expires	Actions
This host has no comments associated with it							

Done

192.168.1.11

Nagios Alert History

The screenshot shows a web browser window displaying the Nagios Alert History page. The browser's address bar shows the URL `http://192.168.1.11/nagios3/`. The page has a dark sidebar on the left with the Nagios logo and a navigation menu. The main content area is titled "Alert History" and shows a list of alerts. The alerts are organized by date, with a section for "March 26, 2009 20:00" and another for "March 26, 2009 10:00". The alerts include details such as the service name, host, and the specific error message. The page also includes a "Log File" section and a "Navigation" section.

Nagios

Alert History
Last Updated: Thu Mar 26 20:41:49 MDT 2009
Nagios@3.0.2 - www.nagios.org
Logged in as: [nagiosadmin](#)

[View Status Detail For All Hosts](#)
[View Notifications For All Hosts](#)

All Hosts and Services

Log File
Navigation
Thu Mar 26 00:00:00 MDT 2009 to Present..
File: nagios.log

State type options:
All state types
History detail level for all hosts:
All alerts
☐ Hide Flapping Alerts
☐ Hide Downtime Alerts
☐ Hide Process Messages
☐ Older Entries First

March 26, 2009 20:00

- [2009-03-26 20:08:21] SERVICE ALERT: kdm-desktop;MD RAID Status;OK;HARD;1;MD Raid Status OK - 0
- [2009-03-26 20:08:01] SERVICE ALERT: kdm-desktop;Disk Space /var;OK;HARD;1; 50%used(4803MB/9613MB) (<80%) : OK
- [2009-03-26 20:07:51] SERVICE ALERT: kdm-desktop;SSH;OK;HARD;1;SSH OK - OpenSSH_5.1p1 Debian-3ubuntu1 (protocol 2.0)
- [2009-03-26 20:07:31] SERVICE ALERT: kdm-desktop;Current Load;OK;HARD;1;Load : 1.35 1.35 0.59 : OK
- [2009-03-26 20:07:31] SERVICE ALERT: kdm-desktop;Disk Space /var;OK;HARD;1;var: 20%used(1134MB/5768MB) (<80%) : OK
- [2009-03-26 20:07:31] SERVICE ALERT: kdm-desktop;Disk Space /home;OK;HARD;1;home: 48%used(446510MB/929286MB) (<80%) : OK
- [2009-03-26 20:07:31] HOST ALERT: kdm-desktop;UP;SOFT;6;PING OK - Packet loss = 0%, RTA = 0.34 ms
- [2009-03-26 20:06:21] HOST ALERT: kdm-desktop;DOWN;SOFT;5;CRITICAL - Host Unreachable (192.168.1.20)
- [2009-03-26 20:05:11] HOST ALERT: kdm-desktop;DOWN;SOFT;4;CRITICAL - Host Unreachable (192.168.1.20)
- [2009-03-26 20:04:01] HOST ALERT: kdm-desktop;DOWN;SOFT;3;CRITICAL - Host Unreachable (192.168.1.20)
- [2009-03-26 20:02:51] HOST ALERT: kdm-desktop;DOWN;SOFT;2;CRITICAL - Host Unreachable (192.168.1.20)
- [2009-03-26 20:02:31] SERVICE ALERT: kdm-desktop;MD RAID Status;UNKNOWN;HARD;1;MD Raid Status problem - No data received from host
- [2009-03-26 20:02:11] SERVICE ALERT: kdm-desktop;Disk Space /UNKNOWN;HARD;1;ERROR: Description/Type table : No response from remote host '192.168.1.20'.
- [2009-03-26 20:01:51] SERVICE ALERT: kdm-desktop;SSH;CRITICAL;HARD;1;No route to host
- [2009-03-26 20:01:41] SERVICE ALERT: kdm-desktop;Current Load;UNKNOWN;HARD;1;ERROR: Description table : No response from remote host '192.168.1.20'.
- [2009-03-26 20:01:41] SERVICE ALERT: kdm-desktop;Disk Space /var;UNKNOWN;HARD;1;ERROR: Description/Type table : No response from remote host '192.168.1.20'.
- [2009-03-26 20:01:41] SERVICE ALERT: kdm-desktop;Disk Space /home;UNKNOWN;HARD;1;ERROR: Description/Type table : No response from remote host '192.168.1.20'.
- [2009-03-26 20:01:41] HOST ALERT: kdm-desktop;DOWN;SOFT;1;CRITICAL - Host Unreachable (192.168.1.20)
- [2009-03-26 20:01:31] SERVICE ALERT: kdm-desktop;MD RAID Status;UNKNOWN;SOFT;1;MD Raid Status problem - No data received from host

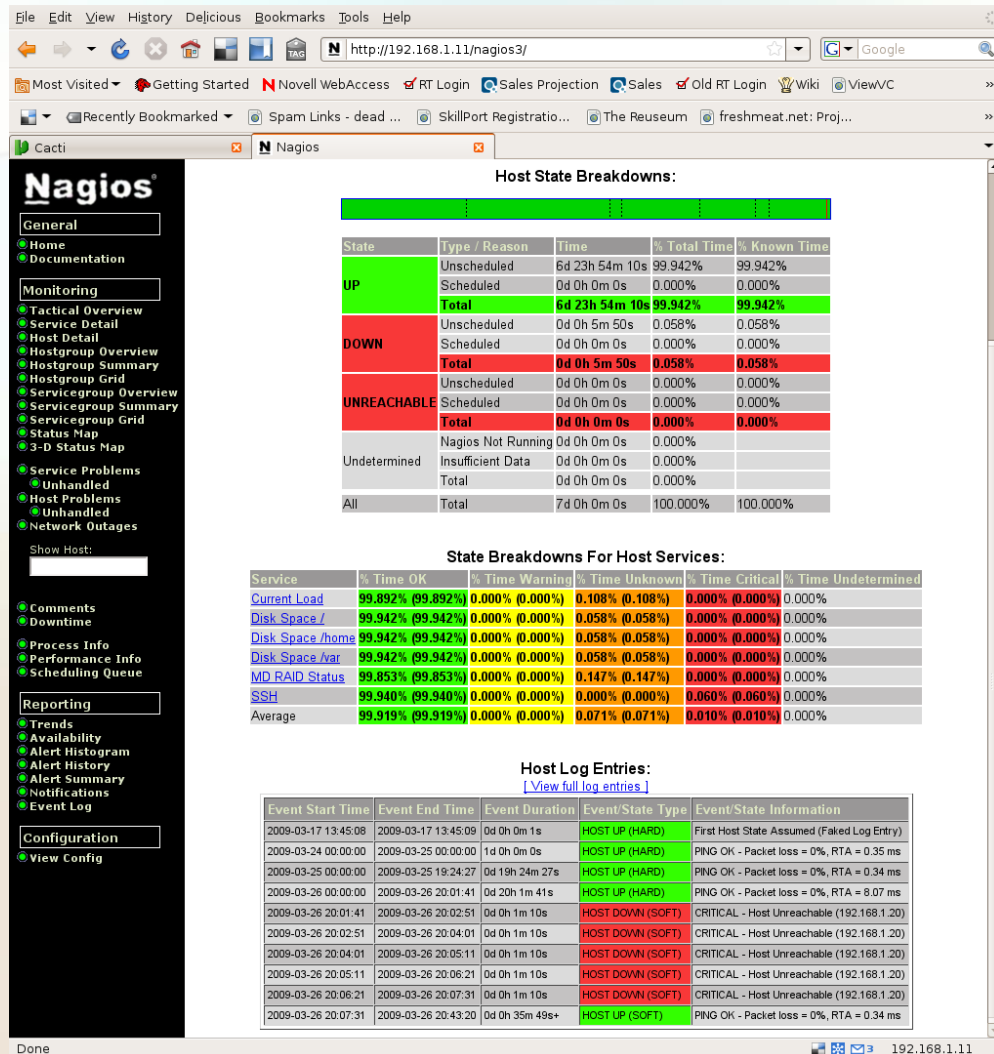
March 26, 2009 10:00

- [2009-03-26 10:28:11] SERVICE FLAPPING ALERT: selway;Disk Space /var/video;STOPPED; Service appears to have stopped flapping (3.8% change < 5.0% threshold)

March 26, 2009 09:00

<http://192.168.1.11/cgi-bin/nagios3/history.cgi?host=all>

Nagios Availability Report



Nagios Configuration

File Edit View History Delicious Bookmarks Tools Help

http://192.168.1.11/nagios3/

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Last Updated: Thu Mar 26 20:50:27 MDT 2009

Nagios 3.0.2 - www.nagios.org

Logged in as nagiosadmin

Object Type:

Services

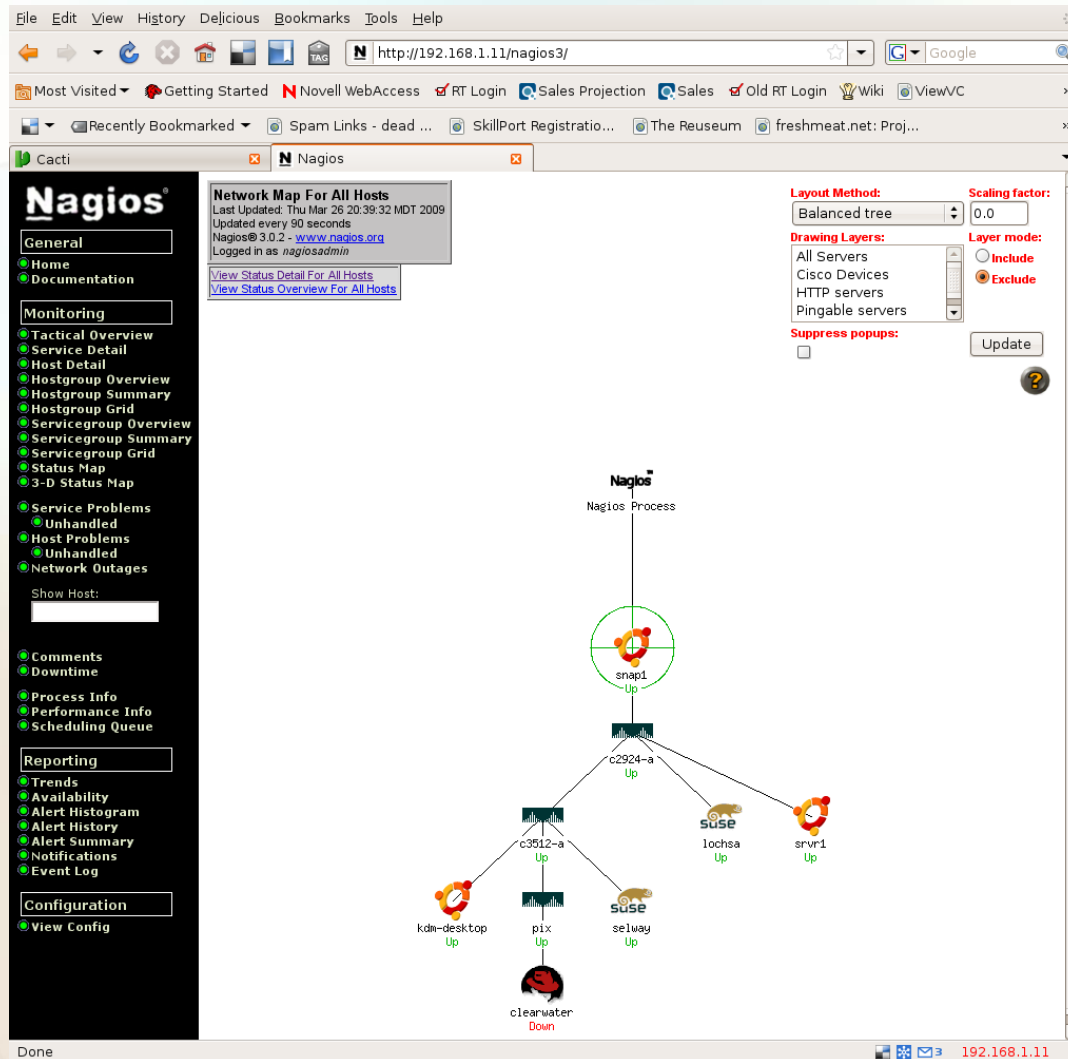
Update

Service	Host	Description	Max. Check Attempts	Normal Check Interval	Retry Check Interval	Check Command	Check Period	Parallelize	Volatile	Obsess Over	Enable Active Checks	Enable Passive Checks	Check Freshness	Freshness Threshold	Default Contacts/Groups	Enable Notifications	Notification Interval	First Notification Delay	Notification Options	Notification Period	Event Handler	Enable Event Handler	Stalking Options	Enable Flap Detection	Low Thres
c2924-a	PING		3	0h 3m 0s	0h 1m 0s	check_ping!100.0.20%/500.0.60%	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	No Re-notification	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
c2924-a	Telnet		3	0h 3m 0s	0h 1m 0s	check_telnet_4	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
c3512-a	PING		3	0h 3m 0s	0h 1m 0s	check_ping!100.0.20%/500.0.60%	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	No Re-notification	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
c3512-a	Telnet		3	0h 3m 0s	0h 1m 0s	check_telnet_4	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
clearwater	Current Load		3	0h 3m 0s	0h 1m 0s	check_snmp_load_v1!nsl!5.0.4.0.3.0!10.0.6.0.4.0!54xmax	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
clearwater	Disk Space /		3	0h 3m 0s	0h 1m 0s	check_snmp_storage_v1!l809054xmax	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
clearwater	Disk Space /home		3	0h 3m 0s	0h 1m 0s	check_snmp_storage_v1!lhome!809054xmax	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
clearwater	Disk Space /usr		3	0h 3m 0s	0h 1m 0s	check_snmp_storage_v1!lusr!809054xmax	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
clearwater	Disk Space /var		3	0h 3m 0s	0h 1m 0s	check_snmp_storage_v1!lvar!809054xmax	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	0h 10m 0s	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value
clearwater	HTTP		3	0h 3m 0s	0h 1m 0s	check_http	24x7	Yes	No	Yes	Yes	Yes	No	Auto-determined value	admins	Yes	No Re-notification	0h 0m 0s	Unknown, Critical, Recovery	24x7		Yes	None	Yes	Progr value

Done

192.168.1.11

Nagios Network Map



More Information

- Nagios Plugins
 - <http://www.nagiosexchange.org/>
- Cacti Forums & Templates
 - <http://forums.cacti.net/>