

Nagios Server Important files

- **Contact.cfg**
- **Template.cfg**
- **Command.cfg**
- **Linuxbox.cfg**

Contact.cfg

- This File is use to define the contact and contact groups for the mailing perspective.
- Ex: define contact{
 contact_name oracleadmin
 use generic-contact
 alias Ashish Awathi Oracle Admin
 email ashish.awasthi@sandhar.in
}
- Ex: define contactgroup{
 contactgroup_name oracle
 alias Oracle Team to get Information
 members oracleadmin,oracleadmin1,dba-group
}
- We use contact groups for the mailling but for that must have to define contact.

Template.cfg

- This file is use to define the templates to be used for the contacts, host, service and to define hostgroups.
- Ex: define service{
 - name generic-service ; The 'name' of this service template
 - use srv-pnp
 - active_checks_enabled 1 ; Active service checks are enabled
 - passive_checks_enabled 1 ; Passive service checks are enabled/accepted
 - parallelize_check 1 ; Active service checks should be parallelized (disabling this can lead to major performance problems)
 - obsess_over_service 1 ; We should obsess over this service (if necessary)
 - check_freshness 0 ; Default is to NOT check service 'freshness'
 - notifications_enabled 1 ; Service notifications are enabled
 - event_handler_enabled 1 ; Service event handler is enabled
 - flap_detection_enabled 1 ; Flap detection is enabled
 - failure_prediction_enabled 1 ; Failure prediction is enabled
 - process_perf_data 1 ; Process performance data
 - retain_status_information 1 ; Retain status information across program restarts
 - retain_nonstatus_information 1 ; Retain non-status information across program restarts
 - is_volatile 0 ; The service is not volatile
 - check_period 24x7 ; The service can be checked at any time of the day
 - max_check_attempts 3 ; Re-check the service up to 3 times in order to determine its final (hard) state
 - normal_check_interval 10 ; Check the service every 10 minutes under normal conditions
 - retry_check_interval 2 ; Re-check the service every two minutes until a hard state can be determined
 - contact_groups admins ; Notifications get sent out to everyone in the 'admins' group
 - notification_options w,u,c,r ; Send notifications about warning, unknown, critical, and recovery events
 - notification_interval 60 ; Re-notify about service problems every hour
 - notification_period 24x7 ; Notifications can be sent out at any time
 - register 0 ; DONT REGISTER THIS DEFINITION - ITS NOT A REAL SERVICE, JUST A TEMPLATE!

Command.cfg

- This file is used to define the specific commands to be called with nrpe or directly by its name, it can be a command for the remote client as well as for the local also.
- Ex: define command{
 command_name check_oracle_health_modified
 command_line
 /usr/local/nagios/libexec/check_oracle_health_shell
 --mode \$ARG1\$ --connect \$ARG2\$ --user \$ARG3\$
 --password \$ARG4\$ --warning \$ARG5\$ --critical
 \$ARG6\$ }

Linuxbox.cfg

- This is the main configuration file from where all the information from different respective file were called to produce the output on dashboard.
- Ex: define host{
 use linux-server
 host_name stl-BItest
 alias stl-BItest
 address 172.17.16.19
 hostgroups sandhar-oracle-server
}

Service definition dir

- The directory service is the place where all the required service to be visible on dashboard were defined in a single file of the respective host.
- Ex: define service{
 use generic-log-service
 host_name stl-proddb1
 service_description Oracle Database status
 contact_groups oracle
 notification_options w,u,c,r
 check_command check_nrpe!check_databases
}

Client Configuration file

- Nrpe.cfg
- This is the only file responsible to generate the query as a command and give the output from the client server to nagios server via nrpe/nsclient++
- Ex:
`command[check_load]=/usr/local/nagios/libexec/check_load -r -w 10 -c 15`

Monitoring Perspective

- This is the main Overview of Dashboard.

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Check_MK Multisite

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- **Services**
- **Servicegroups**
- **Business Intelligence**
- **Problems**
- **Addons**
- **Event Console**
- **Other**

EDIT

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Main Overview

nagiosadmin (admin) 12:20

Host Statistics

Up	84
Down	2
Unreachable	0
In Downtime	0
Total	86

Service Statistics

OK	755
In Downtime	0
On Down host	3
Warning	10
Unknown	5
Critical	19
Total	792

Host Problems (unhandled)

state	Host	Icons	Age	Status detail
DOWN	CONNECT_UPS		41 hrs	CRITICAL - Host Unreachable (172.17.17.202)
DOWN	load_balancer		2013-12-13 19:05:15	(Host Check Timed Out)

Service Problems (unhandled)

State	Host	Service	Icons	Status detail	Age
CRIT	stl-uat	Check Disks		DISK CRITICAL - free space: /02 10735 MB (7% inode=99%):	2013-11-2
CRIT	Windows1	Windows AD Status		CRITICAL - services: OK. fsmocheck: OK. replication: CRITICAL. SysVolcheck: CRITICAL.	2013-12-0
CRIT	Windows2	Window AD Status		CRITICAL - services: OK. fsmocheck: OK. replication: CRITICAL. SysVolcheck:	2013-12-0

Events of recent 4 hours

	Time	Host	Service	Check
	39 sec	Windows22.253	Windows AD Status	CRITICAL - service OK. replication: C SysVolcheck: CRI
	39 sec	Windows17.10	CPU Load	No data was rece
	68 sec	Windows17.10	Uptime	System Uptime - 5 24 minute(s)
	2 min	Windows17.10	Uptime	No data was rece
	4 min	Windows21.253	Windows AD Status	CHECK_NRPE: E from daemon.
	4 min	Windows141	C:\ Drive Space	c:\ - total: 14.99 Gi (80%) - free 2.99
	4 min	Windows141	C:\ Drive Space	c:\ - total: 14.99 Gi (80%) - free 2.99

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Explanation

- In the Dash Board Everything which is red is the visual symbol of Critical either host or service.
- Yellow is the visual Symbol of Warning level.
- Green is the symbol of OK.
- We must work on warning level so that issue not raised to critical level.

Explanation

- The mail alerts of all the host and respective service will generated on the bases of warning, critical, unknown and recovery.
- If seeing and critical or warning service on the dash board acknowledge it which also generates a mail of acknowledgment which reflects that the issue is being taken care by monitoring team and it will not generate any further critical or warning mail until the issue got recovered, once it recover generate the recovery mail.

Explanation

- Acknowledgment process.

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Status of Host CONNECT_UPS

1 row nagiosadmin (admin) 12:36

Site alias

Hostname

Host alias

Host icons

Host state

Host IP address

Hostgroups the host is member of

Host's parents

Host's childs

Host contact groups

Host contacts

Output of host check plugin

Host performance data

Current host check attempt

Normal/retry check interval

Host check type

The age of the current host state

The time since the last check of the host

The time of the next scheduled host check

The time of the next host notification

CONNECT_UPS

CONNECT_UPS

DOWN

172.17.17.202

Other Devices

admins

nagiosadmin

CRITICAL - Host Unreachable (172.17.17.202)

1/10

300s/60s

ACTIVE

41 hrs

3 min

in 116 sec

in 17 min

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Explanation

- Click on Hammer.

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EDIT

Status of Host CONNECT_UPS

1 row nagiosadmin (admin) 12:40

Execute commands on hosts, services and other objects

Acknowledge

Acknowledge Acknowledge Remove Acknowledge

☒ sticky ☒ send notification ☐ persistent comment

Comment: Not In Network

Downtimes

Schedule downtimes

Downtime Comment:

2 hours Today This week This month This year Remove all

Custom time range 2013-12-16 12:36 to 2013-12-16 14:36

From now for 60 minutes

☐ flexible with max. duration 02:00 (HH:MM)

☐ Also set downtime on child hosts ☐ Do this recursively

Various Commands

Reschedule Reschedule active checks

Notifications Enable Disable

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Explanation

- Write a Comment and save the Acknowledgment

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Status of Host CONNECT_UPS

1 row nagiosadmin (admin) 12:42

Do you really want to **acknowledge the problems** of the following 1 hosts?

Yes No

Site alias	
Hostname	CONNECT_UPS
Host alias	CONNECT_UPS
Host icons	 
Host state	DOWN
Host IP address	172.17.17.202
Hostgroups the host is member of	Other Devices
Host's parents	
Host's childs	
Host contact groups	admins
Host contacts	nagiosadmin
Output of host check plugin	CRITICAL - Host Unreachable (172.17.17.202)
Host performance data	
Current host check attempt	1/10
Normal/retry check interval	300s/60s
Host check type	ACTIVE
The age of the current host state	41 hrs

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Installation & Configuration of npre on client machine

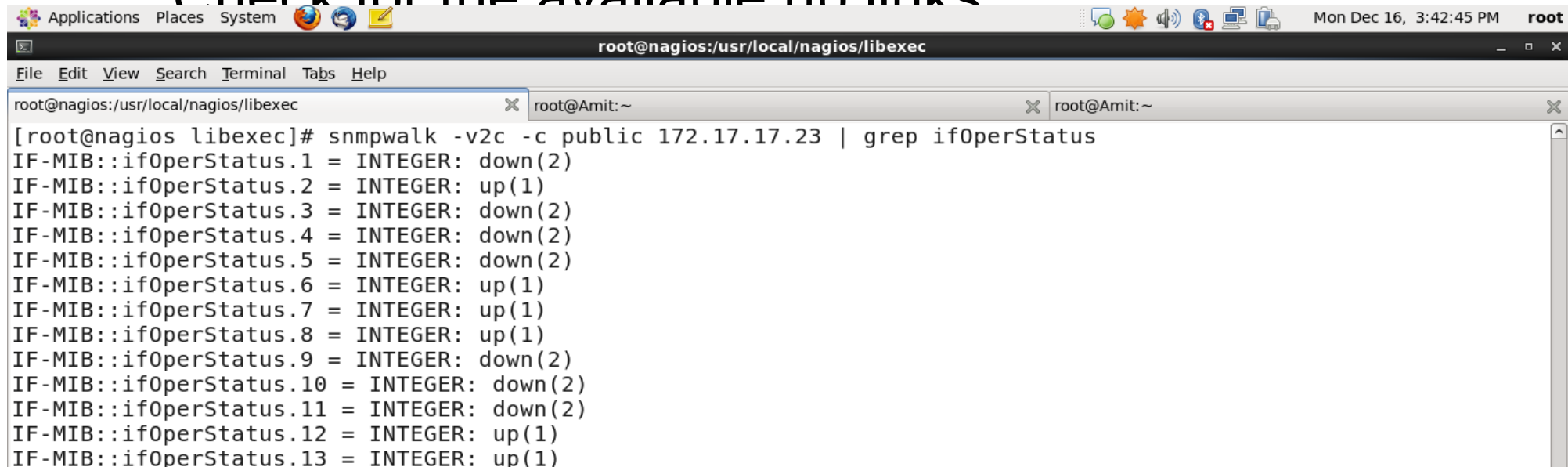
- On solaris server.
 - Install the package SYMCnrpe-sparc-1.4.15b.pkg.gz
 - Copy the /usr/local/nagios to /tmp/
 - Remove the nrpe package.
 - Now copy the /tmp/nagios to /usr/local/
 - Enter the below entries
allowed_hosts=127.0.0.1,172.17.16.3
 - To run nrpe as standalone process
`/usr/local/nagios/bin/nrpe -n -c /usr/local/nagios/etc/nrpe.cfg -d`
 - To restart pkill nrpe;
`/usr/local/nagios/bin/nrpe -n -c /usr/local/nagios/etc/nrpe.cfg -d`

Installation & Configuration of npre on client machine

- On Windows
 - Install nsclient++.exe
 - Look for allowed host put the information of nagios server. 172.17.16.3.
 - Restart the nsclient.

To Add SNMP device

- On nagios side.
 - Run snmpwalk to check whether snmp device is able to listen or not
- snmpwalk -v2c -c public 172.17.17.23
- snmpwalk -vversion -c string host-address.
- Check for the available up links



The screenshot shows a terminal window titled 'root@nagios:/usr/local/nagios/libexec'. The command executed is 'snmpwalk -v2c -c public 172.17.17.23 | grep ifOperStatus'. The output lists 13 interface status entries, each showing the interface name, its operational status, and the value in INTEGER format.

```
root@nagios:/usr/local/nagios/libexec# snmpwalk -v2c -c public 172.17.17.23 | grep ifOperStatus
IF-MIB::ifOperStatus.1 = INTEGER: down(2)
IF-MIB::ifOperStatus.2 = INTEGER: up(1)
IF-MIB::ifOperStatus.3 = INTEGER: down(2)
IF-MIB::ifOperStatus.4 = INTEGER: down(2)
IF-MIB::ifOperStatus.5 = INTEGER: down(2)
IF-MIB::ifOperStatus.6 = INTEGER: up(1)
IF-MIB::ifOperStatus.7 = INTEGER: up(1)
IF-MIB::ifOperStatus.8 = INTEGER: up(1)
IF-MIB::ifOperStatus.9 = INTEGER: down(2)
IF-MIB::ifOperStatus.10 = INTEGER: down(2)
IF-MIB::ifOperStatus.11 = INTEGER: down(2)
IF-MIB::ifOperStatus.12 = INTEGER: up(1)
IF-MIB::ifOperStatus.13 = INTEGER: up(1)
```


To Add SNMP device

- Now map the up link status as already defined command in command.cfg.
- `/usr/local/nagios/libexec/check_ifoperstatus -H $HOSTADDRESS$ -C $ARG1$ -k $ARG2$`
- Use the parameter accordingly in the service file of the required host like.
define service{
 use generic-service
 host_name Switch-172_17_17_23
 service_description Link status Interface 2
 check_command check_ifoperstatus!public!2
 }
• Above is defined to check the status of link 2.

THANKS
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