

Installing Nagios

Installing the /etc/hosts file

```
host0.wkshp3.apricot.net      10.1.0.1
host1.wkshp3.apricot.net      10.1.1.1
...                           ...
```

do this for all hosts in the lab

Login as a root user

Add the User 'nagios' and assign the password for it.

```
#useradd nagios
#passwd nagios (enter password "nagios")
#mkdir /usr/local/nagios
#chown nagios: /usr/local/nagios
#cd /home/nagios
```

Do all other stuff as user 'nagios' so that there are no permission issues later on.

```
# su nagios
$scp -r nagios@<server_ip>:/home/nagios/ .
$ll /home/nagios (you should see all tars other
directories copied on there)
$cd /home/nagios
$gunzip nagios-1.1.tar.gz
$tar -xvf nagios-1.1.tar
$cd nagios-1.1
$./configure
$make all
$make install
$make install-commandmode
$make install-config
$exit
```

Be Root to install Nagios.

```
#cd nagios-1.2
#make install-init
#chmod 755 /etc/rc.d/init.d/nagios
#exit
```

Installing Plug-ins

```
$cd /home/nagios
$gunzip nagios-plugins-1.3.1.tar.gz
$tar -xvf nagios-plugins-1.3.1.tar
$cd nagios-plugins-1.3.1
$./configure
$make all
```

```
$make install
```

```
$exit (Login as root user)
```

Configuring Web Access

```
#vi /etc/httpd/conf.d/nagios.conf
```

```
ScriptAlias /nagios/cgi-bin/ /usr/local/nagios/sbin/
```

```
<Directory "/usr/local/nagios/sbin/">
```

```
    AllowOverride AuthConfig
```

```
    Options ExecCGI
```

```
    Order allow,deny
```

```
    Allow from all
```

```
</Directory>
```

```
Alias /nagios/ /usr/local/nagios/share/
```

```
<Directory "/usr/local/nagios/share">
```

```
    AllowOverride AuthConfig
```

```
    Order allow,deny
```

```
    Allow from all
```

```
</Directory>
```

Note: Be sure you have a include paramenter in your main httpd.conf file.

```
#su nagios
```

```
$ cd /usr/local/nagios/sbin
```

```
$ vi .htaccess
```

```
AuthName "Nagios Access"
```

```
AuthType Basic
```

```
AuthUserFile /usr/local/nagios/etc/htpasswd.users
```

```
require valid-user
```

Save & exit

```
$htpasswd -c /usr/local/nagios/etc/htpasswd.users nagios
```

```
Exclude -c to add other user
```

```
Enter password nagios
```

```
$chmod 644 /usr/local/nagios/etc/htpasswd.users
```

```
$ cp /usr/local/nagios/sbin/.htaccess /
```

```
usr/local/nagios/share/.
```

Run Web Server

```
#service httpd start
```

Make Web server and Nagios run by default at cdesired runlevel.

```
$exit (Login as Root)
#chkconfig -add nagios
#chkconfig --level 35 httpd on
#chkconfig --level 35 nagios on
```

Open Web Browser <http://localhost/nagios/>
Log On as nagios or user created by htpasswd

Logos and images make user to easily identify the devices on network
Make look of nagios more professional
Status map looks pretty
Logos are to be copied at /usr/local/nagios/share/images/logos

```
$ cp /home/nagios/logos/* /usr/local/nagios/share/images/logos/.
```

Nagios.cfg

```
cfg_file=/usr/local/nagios/etc/contactgroups.cfg
cfg_file=/usr/local/nagios/etc/contacts.cfg
```

```
#Need to hash folloing two files
#cfg_file=/usr/local/nagios/etc/dependencies.cfg
#cfg_file=/usr/local/nagios/etc/escalations.cfg
cfg_file=/usr/local/nagios/etc/hostgroups.cfg
cfg_file=/usr/local/nagios/etc/hosts.cfg
cfg_file=/usr/local/nagios/etc/services.cfg
cfg_file=/usr/local/nagios/etc/timeperiods.cfg
```

cgi.cfg

```
#Enable Nagios Check Command
nagios_check_command=/usr/local/nagios/libexec/check_nagios
```

```
#Add following 2 lines to proper place
#At bottom of EXTENDED HOST INFORMATION Section
xedtemplate_config_file=/usr/local/nagios/etc/hostextinfo.cfg
```

```
#At bottom of EXTENDED SERVICE INFORMATION Section
xedtemplate_config_file=/usr/local/nagios/etc/serviceextinfo.cfg
```

```
default_user_name=guest
authorized_for_system_information=*
authorized_for_configuration_information=*
authorized_for_system_commands=nagios
authorized_for_all_services=*
authorized_for_all_hosts=*
```

```
authorized_for_all_service_commands=nagios
authorized_for_all_host_commands=nagios
```

contacts.cfg

(This is where you define your contact address)

```
# 'dhruba' contact definition
```

```
define contact{
    contact_name        dhruba
    alias               Sys Admin
    service_notification_period 24x7
    host_notification_period 24x7
    service_notification_options c,u,r
    host_notification_options d,u,r
    service_notification_commands notify-by-email
    host_notification_commands host-notify-by-email
    email               nagios@localhost
}
```

```
# 'Sys-Adms' contact group definition
```

```
define contactgroup{
    contactgroup_name    Sys-Adms
    alias                System Administrator
    members              dhruba
}
```

hosts.cfg

```
# 'Server' host definition
```

```
define host{
    use                generic-host    ; Name of host template
to use
    host_name          host0
    alias              Host @Workshops
    address            10.1.0.1
    check_command       check-host-alive
    max_check_attempts 1
    notification_interval 0
    notification_period workhours
    notification_options d,r
}
```

hostgroup.cfg

```
# 'Hosts at workshops' host group definition
```

```

define hostgroup{
    hostgroup_name    Hosts@wkshop3
    alias             All hosts at Net Mgmt Workshop
    contact_groups    Sys-Adms
    members           host0, host1,host2,host3    }

```

service.cfg

```

# Service definition
define service{
    use                generic-service    ; Name of service template to use
    hostgroup_name     Hosts@wkshop3
    service_description Ping
    is_volatile        0
    check_period       24x7
    max_check_attempts 3
    normal_check_interval 5
    retry_check_interval 1
    contact_groups     Sys-Adms
    notification_interval 0
    notification_period 24x7
    notification_options u,c,r
    check_command       check_ping!100.0,20%!500.0,60%
}

```

Time saving Tricks

```

# 'hosts' Service definition
define service{
    use                generic-host    ; Name of host template
to use
    host_name          host1,host2,..
    host_name          *
    hostgroup_name     hostgroup1,....
    service_description someservice

```

Same thing apply to Services,Service escalation,dependencies, escalations,hostgroups etc check documentation.

Points to remember

After making any changes on cfg file always run following command

```
$ /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

To run nagios on daemon mode

```
$ /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
```

To run nagios as foreground

```
$ /usr/local/nagios/bin/nagios /usr/local/nagios/etc/nagios.cfg
```

To run nagios as background process

```
$ /usr/local/nagios/bin/nagios /usr/local/nagios/etc/nagios.cfg &
```

To reload configuration file after making some changes

```
$ kill -HUP <nagios process id> or
```

```
$/etc/rc.d/init.d/nagios reload
```