

Installing and configuring NFS

1.

(server)

- sudo apt-get update
- sudo apt-get install nfs-kernel-server

(client)

- sudo apt-get update
- sudo apt-get install nfs-common

2.

(server)

- Configure exports file (In GIT)
- Sudo exportfs -a
- Sudo service nfs-kernel-server start

(client)

- Sudo mkdir -p /mnt/nfs/home
- Sudo mount 18.221.254.83:/home /mnt/nfs/home
- Configure fstab to allow for mount of login (in GIT)

Installing and configuring MySQL

- Sudo apt-get update
- Sudo apt-get install mysql-server
- Create script to backup database (in GIT)

Installing and configuring Nagios

1. Nagios server

- sudo su
- apt-get update
- apt-get upgrade -y
- apt-get dist-upgrade -y
- apt-get autoremove -y
- apt-get install build-essential libgd2-xpm-dev openssl libssl-dev apache2-utils apache2 php5 -y

- `dd if=/dev/zero of=/swap bs=1024 count=2097152`
- `mkswap /swap && sudo chown root. /swap && sudo chmod 0600 /swap && sudo swapon /swap`
- `sh -c "echo /swap swap swap defaults 0 0 >> /etc/fstab"`
- `sh -c "echo vm.swappiness = 0 >> /etc/sysctl.conf && sysctl -p"`
- `useradd nagios`
- `groupadd nagcmd`
- `usermod -a -G nagcmd nagios`
- `cd /root`
- `curl -L -O http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz`
- `tar xvf nagios-*.tar.gz`
- `cd nagios-4.0.8`
- `./configure --with-nagios-group=nagios --with-command-group=nagcmd`
- `make all`
- `make install`
- `make install-commandmode`
- `make install-init`
- `make install-config`
- `/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/apache2/sites-available/nagios.conf`
- `cd ../`
- `curl -L -O http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz`
- `tar xvf nagios-plugins-*.tar.gz`
- `cd nagios-plugins-2.0.3`
- `./configure --with-nagios-user=nagios --with-nagios-group=nagios --with-openssl`
- `make`
- `make install`
- `nano /usr/local/nagios/etc/nagios.cfg`

Remove the hashtag in front of this line.

Before --

`#cfg_dir=/usr/local/nagios/etc/servers`

After --

`cfg_dir=/usr/local/nagios/etc/servers`

`mkdir /usr/local/nagios/etc/servers`

Add Your Email

nano /usr/local/nagios/etc/objects/contacts.cfg

- a2enmod rewrite cgi
- htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
- ln -s /etc/apache2/sites-available/nagios.conf /etc/apache2/sites-enabled/
- service nagios start
- service apache2 restart
- ln -s /etc/init.d/nagios /etc/rcS.d/S99nagios
- nano /usr/local/nagios/etc/servers/monitor1.cfg

```
define host {
    use                linux-server
    host_name          monitor1
    alias              My first monitoring server.
    address            PRIVATE_IP_NAGIOS_SERVER
    max_check_attempts 5
    check_period       24x7
    notification_interval 30
    notification_period 24x7
}
```

```
define service {
    use                generic-service
    host_name          monitor1
    service_description PING
    check_command      check_ping!100.0,20%!500.0,60%
}
```

- service nagios reload

2. Nagios client

- sudo su
- apt-get update
- apt-get upgrade -y
- apt-get dist-upgrade -y
- apt-get autoremove -y
- apt-get install nagios-plugins nagios-nrpe-server -y
- nano /etc/nagios/nrpe.cfg

- Edit

allowed_hosts=127.0.0.1 PRIVATE_IP_NAGIOS_SERVER

- service nagios-nrpe-server restart