**Nagios Server and Host Setup on Ubuntu 14.04**

**Setup Instructions**

**1. Server**

* Install Linux, Apache, MySQL, PHP (LAMP) stack
* Install *nagios core*
* Install Nagios Plugins
* Install NRPE - Nagios Remote Plugin Executor

**2. Remote Host**

* Install linux-nrpe-agent
* Allow the nagios-Server to access the remote host

**3. Setting up email notification**

* Install POSTFIX
* Install Heirloom-MailX

**4. Make changes in configuration files**

* Replace /usr/local/nagios/etc/objects/command.cfg with commands.cfg
* Add [NagiosRemoteHost2.cfg](https://github.com/amittal91/DevOps-TechTalk-Nagios/tree/master/Config-Server) to /usr/local/nagios/etc/objects/
* Change the IP address in the file to your remote host's IP

**Nagios Server Setup on Ubuntu 14.04**

**Prerequisites:**

* **you will be using a non-root user with superuser privileges (Vagrant User)**
* **Install Apache, MySQL, PHP**

**$ sudo apt-get update**

**$ sudo apt-get install apache2**

**$ sudo apt-get install mysql-server php5-mysql**

**$ sudo mysql\_install\_db**

**$ sudo mysql\_secure\_installation**

**$ sudo apt-get install php5 libapache2-mod-php5 php5-mcrypt**

**$ vi /etc/apache2/mods-enabled/dir.conf**

**We want to move the PHP index file highlighted above to the first position after the DirectoryIndexspecification, like this:**

**<IfModule mod\_dir.c>**

**DirectoryIndex index.php index.html index.cgi index.pl index.xhtml index.htm**

**</IfModule>**

**$ sudo service apache2 restart**

**Create Nagios User and Group**

**$ sudo useradd nagios**

**$ sudo groupadd nagcmd**

**$ sudo usermod -a -G nagcmd nagios**

**$ sudo apt-get update**

**$ sudo apt-get install build-essential libgd2-xpm-dev openssl libssl-dev xinetd apache2-utils unzip**

**Install Nagios Core**

Download the source code for the latest stable release of Nagios Core.

Go to the [Nagios downloads page](http://www.nagios.org/download/core-stay-informed)   
**$ cd ~**

**$ curl -L -O** <https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.1.1.tar.gz>

**$ tar xvf nagios-\*.tar.gz**

**$ cd nagios-\***

**$ ./configure --with-nagios-group=nagios --with-command-group=nagcmd**

**Now compile Nagios with this command:**

**$** **make all**

**$ sudo make install**

**$ sudo make install-commandmode**

**$ sudo make install-init**

**$ sudo make install-config**

**$ sudo /usr/bin/install -c -m 644 sample-config/httpd.conf /etc/apache2/sites-available/nagios.conf**

**$ sudo usermod -G nagcmd www-data**

**Install Nagios Plugins**

Find the latest release of Nagios Plugins

here: [Nagios Plugins Download](http://nagios-plugins.org/download/?C=M;O=D).

**$ cd ~**

**$ curl -L -O** [**http://nagios-plugins.org/download/nagios-plugins-2.1.1.tar.gz**](http://nagios-plugins.org/download/nagios-plugins-2.1.1.tar.gz)

**$ tar xvf nagios-plugins-\*.tar.gz**

**$cd nagios-plugins-\***

**$./configure --with-nagios-user=nagios --with-nagios-group=nagios --with-openssl**

**$ make**

**$ sudo make install**

**Install NRPE**

Find the source code for the latest stable release of NRPE at the [NRPE downloads page](http://sourceforge.net/projects/nagios/files/nrpe-2.x/).

**$ cd ~**

**$ curl -L -O http://downloads.sourceforge.net/project/nagios/nrpe-2.x/nrpe-2.15/nrpe-2.15.tar.gz**

**$ tar xvf nrpe-\*.tar.gz**

**$ cd nrpe-\***

**$ ./configure --enable-command-args --with-nagios-user=nagios --with-nagios-group=nagios --with-ssl=/usr/bin/openssl --with-ssl-lib=/usr/lib/x86\_64-linux-gnu**

**Now build and install NRPE and its xinetd startup script with these commands:**

**$ make all**

**$ sudo make install**

**$ sudo make install-xinetd**

**$ sudo make install-daemon-config**

**$ sudo vi /etc/xinetd.d/nrpe**

**(substitute in the actual IP address of your server)**

**only\_from = 127.0.0.1 <ip address>**

**$ sudo service xinetd restart**

**Configure Nagios**

**$ sudo vi /usr/local/nagios/etc/nagios.cfg**

**Now find an uncomment this line by deleting the #**

**$ cfg\_dir=/usr/local/nagios/etc/servers**

**$ sudo mkdir /usr/local/nagios/etc/servers**

**Configure Nagios Contacts**

**$ sudo vi /usr/local/nagios/etc/objects/contacts.cfg**

**Find the email directive, and replace its value with your own email address:**

**email nagios@localhost 🡨 mymail2sateesh@gmail.com**

**Configure check\_nrpe Command**

**$ sudo vi /usr/local/nagios/etc/objects/commands.cfg**

**Add the following to the end of the file:**

**define command{**

**command\_name check\_nrpe**

**command\_line $USER1$/check\_nrpe -H $HOSTADDRESS$ -c $ARG1$**

**}**

**Configure Apache**

**$ sudo a2enmod rewrite**

**$ sudo a2enmod cgi**

**Use htpasswd to create an admin user, called "nagiosadmin“**

**$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin**

**$ sudo ln -s /etc/apache2/sites-available/nagios.conf /etc/apache2/sites-enabled/**

**$ sudo service nagios start**

**$ sudo service apache2 restart**

**$ sudo ln -s /etc/init.d/nagios /etc/rcS.d/S99nagios**

**Accessing the Nagios Web Interface**

**http://<nagios\_serverip/nagios**

**Nagios Host Setup on Ubuntu 14.04**

**Monitor a Host with NRPE**

**$ sudo apt-get update**

**$ sudo apt-get install nagios-plugins nagios-nrpe-server**

**$ sudo vi /etc/nagios/nrpe.cfg**

**(Find the allowed\_hosts directive, and add the private IP address of your Nagios server)**

**allowed\_hosts=127.0.0.1, <server ip>**

**$ sudo service nagios-nrpe-server restart**

**Add Host to Nagios Configuration (SERVER)**

**$ sudo vi /usr/local/nagios/etc/servers/nagihost.cfg**

**define host {**

**use linux-server**

**host\_name nagihost.satish.com**

**alias My first Apache server**

**address 192.168.33.46**

**max\_check\_attempts 5**

**check\_period 24x7**

**notification\_interval 30**

**notification\_period 24x7**

**}**

**$ sudo service nagios reload**

**(browse Nagio Web Interphase and check out services)**