**Nagios Installation Steps**

1. **Update your Ubuntu system and install the following packages which are necessary to download and compile the Nagios main application and Nagios plugins:**

sudo su -  
apt update  
apt-get install build-essential apache2 php openssl perl make php-gd libgd-dev libapache2-mod-php libperl-dev libssl-dev daemon wget apache2-utils unzip

1. **Downloading Nagios**

cd /tmp   
wget <https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.3.tar.gz>  
tar -zxvf /tmp/nagios-4.4.3.tar.gz  
cd /tmp/nagios-4.4.3/

1. **Compiling Nagios : To start the build process run the configure script which will perform a number of checks to make sure all of the dependencies on your system are present:**

./configure --with-nagios-group=nagios --with-command-group=nagcmd --with-httpd\_conf=/etc/apache2/sites-enabled/

make all  
make install  
make install-init  
make install-config  
make install-commandmode

1. **Creating Nagios User And Group**

useradd nagios  
groupadd nagcmd  
usermod -a -G nagcmd nagios  
usermod -a -G nagcmd www-data

1. **Install Apache Configuration Files**

make install-webconf  
htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin  
a2enmod cgi  
systemctl restart apache2

1. **Creating Systemd Unit File : The following command installs a systemd unit file and also configure the nagios service to start on boot.**

sudo make install-daemoninit

1. **Creating User Account : To be able to access the Nagios web interface you’ll need to create an admin user called nagiosadmin**

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

sudo systemctl restart apache2

sudo ufw allow Apache

**INSTALLING NAGIOS PLUGINS**

cd /tmp

wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz

tar -zxvf /tmp/nagios-plugins-2.2.1.tar.gz

cd /tmp/nagios-plugins-2.2.1/

./configure --with-nagios-user=nagios --with-nagios-group=nagios

make

make install

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

systemctl enable nagios

systemctl start nagios

**Access Nagios DashBoard:**  
<http://your_domain_or_ip_address/nagios>

**Adding A Remote Host to Nagios Server:**

**Spin up a new VM And then:  
sudo apt update  
sudo apt install -y nagios-nrpe-server nagios-plugins  
sudo nano /etc/nagios/nrpe.cfg**

**In allowed Hosts section in the file ,add Ip of master after comma.**

**Test Nagios Checks :**/usr/lib/nagios/plugins/check\_procs -w 150 -c 200

**systemctl restart nagios-nrpe-server  
systemctl enable nagios-nrpe-server  
systemctl status nagios-nrpe-server**

**Now Go to Master server and:**

**Install Plugins:**sudo apt install -y nagios-nrpe-plugin

**Edit a file (uncomment cfg\_dir=/usr/local/nagios/etc/servers)**sudo nano /usr/local/nagios/etc/nagios.cfg

**Now copy the localhost.cfg from /usr/local/nagios/etc/objects to /usr/local/nagios/etc/servers**cp /usr/local/nagios/etc/objects/localhost.cfg /usr/local/nagios/etc/servers/remote.cfg

**First Check the config:**/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

**Now Restart Nagios**sudo systemctl restart nagios

**Create the mentioned path and there create a file called host1.cfg, better copy file from localhost.cfg and edit the contents where localhost is mentioned with Ip of client host machine.**