**1**. Login to the AWS account.

**2**. Create two instances one is for “**nagios\_server”** and another for “**remote\_monitoring**” client.

**3**. Connect to the nagios\_server and install or configure the nagios.

1. **To install and configure the nagios\_server follow the below steps:**

* **vi nagios.sh**

***yum -y install httpd php gcc glibc glibc-common wget perl gd gd-devel unzip zip***

***useradd nagios***

***groupadd nagcmd***

***usermod -a -G nagcmd nagios***

***usermod -a -G nagcmd apache***

***cd /tmp/***

***wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.3.2.tar.gz***

***tar -zxvf nagios-4.3.2.tar.gz***

***cd /tmp/nagios-4.3.2***

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

***make all***

***make install***

***make install-init***

***make install-config***

***make install-commandmode***

***make install-webconf***

***make install-exfoliation***

***systemctl restart httpd***

***systemctl enable httpd***

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

* **sh nagios.sh**

New password:<Enter the password>

Re-type new password:<Retype the same password>

**4**. Copy the “**Public\_IP”** of the instance and paste it in the chrome along with **/nagios**

* **<Public\_IP>/nagios**

**Note:**

**You can see the nagios GUI but you cannot access other things to access entire nagios please follow below steps**

**6**. Now we have to install the nagios plugin in the nagios\_server to do it follow below steps

* **vi nagios\_plugin.sh**

***cd /tmp***

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

***tar -zxvf 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***

***service nagios start***

***chkconfig nagios on***

* **sh nagios\_plugin.sh**

**Note:**

**Now go and refresh the nagios website you will be seeing that nagios is running and working fine**

**ON REMOTE MONITORING CLIENT SERVER**

**7.** Connect the instance of remote\_monitoring

**8.** Install nagios plugin

**9.** Install NRPE plugin

1. **To install the nagios plugin and NRPE plugin follow the below steps**

* **rpm -ivh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm**
* **yum install -y nrpe nagios-plugins-all**

**10.** Go to the “**nrpe.cfg**” file and add the **Public\_IP** in the sectioned called allowed hosts as shown below, In the same file you can also see there are commands to check several services of the remote server

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

***allowed\_hosts=127.0.0.1,<public\_ip of the nagios\_server>***

***command[check\_users]=/usr/lib64/nagios/plugins/check\_users -w 5 -c 10***

***command[check\_load]=/usr/lib64/nagios/plugins/check\_load -r -w .15,.10,.05 -c .30,.25,.20***

***command[check\_hda1]=/usr/lib64/nagios/plugins/check\_disk -w 20% -c 10% -p /dev/hda1***

***command[check\_zombie\_procs]=/usr/lib64/nagios/plugins/check\_procs -w 5 -c 10 -s Z***

***command[check\_total\_procs]=/usr/lib64/nagios/plugins/check\_procs -w 150 -c 200***

**11.** Start the NRPE service by typing the below command

* **systemctl start nrpe**

**12.** Enable the NRPE service by typing the below command

* **systemctl enable nrpe**

**ON NAGIOS SERVER**

**13.** Install the NRPE plugin

1. To install follow the steps given below

* **rpm -ivh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm**
* **yum -y install nagios-plugins-nrpe**

**14.** Go to the file given below and add the or comment the section mentioned below

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

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

**15.** Create one folder called servers in the below mentioned path

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

**16.** Go to commands.cfg file and add the following Nagios command definition to the file.

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

***# .check\_nrpe. command definition***

***define command {***

***command\_name check\_nrpe***

***command\_line /usr/lib64/nagios/plugins/check\_nrpe -H $HOSTADDRESS$ -t 30 -c $ARG1$***

***}***

**17.** Now go to the servers directory that already created in the 15th step , create one file with .cfg extension and add the content mentioned below

* **cd /usr/local/nagios/etc/servers**
* **vi hosts.cfg**

***define host{***

***use linux-server***

***host\_name SkillRary***

***alias SkillRary***

***address 13.233.64.134***

***}***

***define hostgroup{***

***hostgroup\_name linux-server***

***alias Linux Servers***

***members SkillRary***

***}***

***define service{***

***use local-service***

***host\_name SkillRary***

***service\_description SWAP Uasge***

***check\_command check\_nrpe!check\_swap***

***}***

***define service{***

***use local-service***

***host\_name SkillRary***

***service\_description Root / Partition***

***check\_command check\_nrpe!check\_root***

***}***

***define service{***

***use local-service***

***host\_name SkillRary***

***service\_description Current Users***

***check\_command check\_nrpe!check\_users***

***}***

***define service{***

***use local-service***

***host\_name SkillRary***

***service\_description Total Processes***

***check\_command check\_nrpe!check\_total\_procs***

***}***

***define service{***

***use local-service***

***host\_name SkillRary***

***service\_description Current Load***

***check\_command check\_nrpe!check\_load***

***}***

**18.** Check is there any errors in the nagios server by typing the command given below

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

**19.** Restart the Nagios by using the command given below

* **systemctl restart nagios**

**20.** Now go and check in Nagios website your host will be added but it will be down so we have to add the ping security group in the nagios\_server and remote\_hosting server security groups

* **ALL ICMP - IPV4**