

Nagios Configuration with AWS

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Create AWS EC2

- Amazon Linux 2 Kernel 5.10 AMI EC2
- Provide network group for SSH, HTTP, HTTPS, TCP
- Create 2 instances as below
 - Master
 - Slave

Putty Connection

- Download Putty
 - Copy Public IP of master
 - Connect with authentication
-
- Username: ec2-user

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Install Prerequisite Software

Nagios requires the following packages are installed on your server prior to installing Nagios:

- * Apache
- * PHP
- * GCC compiler collection (glibc GNU C library, glibc-common: common libraries)
- * GD development libraries (Graphic libraries)

You can use yum to install these packages by running the following commands (as ec2-user):

```
sudo yum install httpd php
```

```
sudo yum install gcc glibc glibc-common
```

```
sudo yum install gd gd-devel
```

Create Account Information

You need to set up a Nagios user. Run the following commands:

```
sudo adduser -m nagios           //creates the user's home directory -m
```

```
sudo passwd nagios
```

Type the new password twice.

```
sudo groupadd nagcmd
```

```
sudo usermod -a -G nagcmd nagios    //-a append -G group
```

```
sudo usermod -a -G nagcmd apache
```

Download Nagios Core and the Plugins

Create a directory for storing the downloads.

```
mkdir ~/downloads
```

```
cd ~/downloads
```

```
wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
```

```
wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
```

Compile and Install Nagios

Extract the Nagios source code tarball.

```
tar zxvf nagios-4.0.8.tar.gz
```

```
cd nagios-4.0.8
```

Run the configuration script with the name of the group which you have created in the above step.

```
./configure --with-command-group=nagcmd
```


Compile and Install Nagios

Compile the Nagios source code.

```
make all
```

Install binaries, init script, sample config files and set permissions on the external command directory.

```
sudo make install
```

```
sudo make install-init
```

```
sudo make install-config
```

```
sudo make install-commandmode
```

Customize Configuration

Change E-Mail address with nagiosadmin contact definition you'd like to use for receiving Nagios alerts.

```
sudo vim /usr/local/nagios/etc/objects/contacts.cfg
```

Configure the Web Interface

```
sudo make install-webconf
```

Create a nagiosadmin account for logging into the Nagios web interface. Note the password you need it while login to Nagios web console.

```
sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin //Type the  
new password twice.
```

```
sudo service httpd restart //Restart Service
```

Compile and Install the Nagios Plugins

Extract the Nagios plugins source code tarball.

```
cd ~/downloads
```

```
tar zxvf nagios-plugins-2.0.3.tar.gz
```

```
cd nagios-plugins-2.0.3
```

Compile and Install the Nagios Plugins

Compile and install the plugins.

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

```
make
```

```
sudo make install
```

Start Nagios

Add Nagios to the list of system services and have it automatically started when the system boots.

```
sudo chkconfig --add nagios
```

```
sudo chkconfig nagios on
```

Start Nagios

Verify the sample Nagios configuration files.

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

If there are no errors, start Nagios.

```
sudo service nagios start
```

Log in to the Web Interface

Access the Nagios web interface to do this you will need to know the Public DNS or IP for your instance, you can get this from the Instance section of the EC2 Console if you do not already know it. You'll be prompted for the username (nagiosadmin) and password you specified earlier.

e.g., <http://ec2-xx-xxx-xxx-xx.ap-west-1.compute.amazonaws.com/nagios/>

Thank you