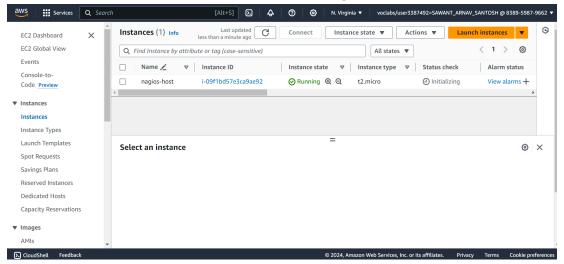
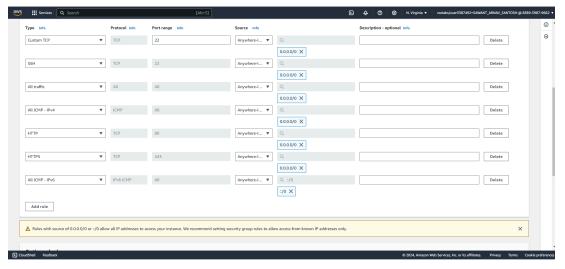
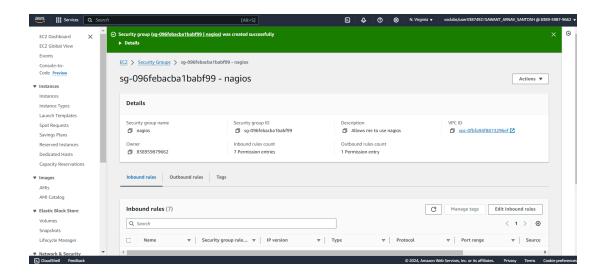
Create an Amazon-Linux EC2 instance, name it nagios-host



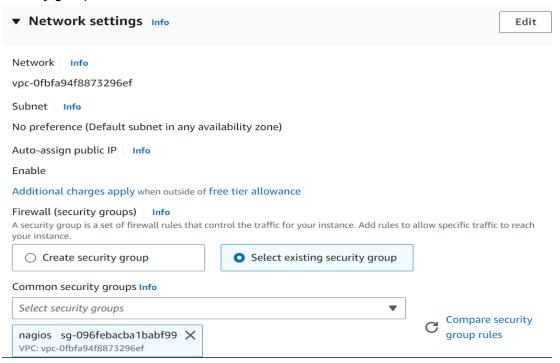
 Configure security group (ensure HTTP, HTTPS, SSH, ICMP are open from everywhere) you can navigate to **security groups** for it which is present on the left side or you can search from the search bar



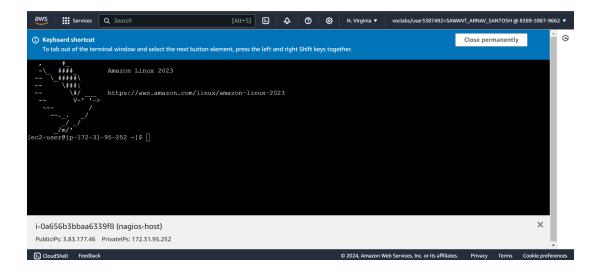
2. Then it should appear something like this



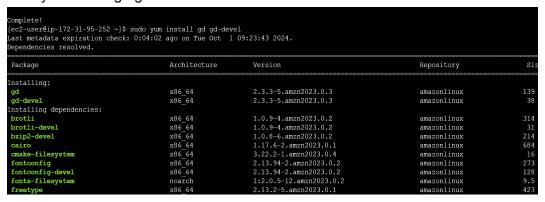
3. Look once you created the security group what you need to do is "add your existing security group like this"



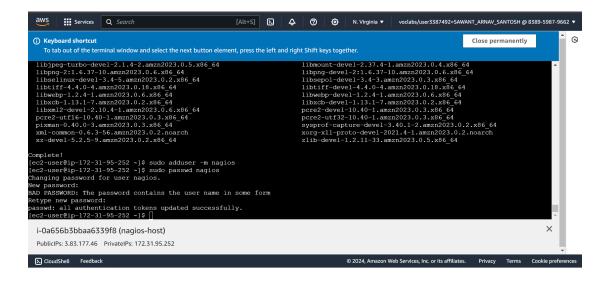
4. Your dashboard then should look like this



 Run these following commands sudo yum update sudo yum install httpd php sudo yum install gcc glibc glibc-common sudo yum install gd gd-devel



 Create a new nagios user sudo adduser -m nagios sudo passwd nagios



Create a new user group sudo groupadd nagcmd

```
[ec2-user@ip-172-31-95-252 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-95-252 ~]$ [
```

8. Add users to the group sudo usermod -a -G nagcmd nagios sudo usermod -a -G nagcmd apache

```
[ec2-user@ip-172-31-95-252 ~]$ sudo usermod -a -G nagcmd nagios [ec2-user@ip-172-31-95-252 ~]$ sudo usermod -a -G nagcmd apache [ec2-user@ip-172-31-95-252 ~]$ [
```

 Create a directory for Nagios downloads mkdir ~/downloads cd ~/downloads

```
[ec2-user@ip-172-31-95-252 ~]$ mkdir ~/downloads
[ec2-user@ip-172-31-95-252 ~]$ cd ~/downloads
[ec2-user@ip-172-31-95-252 downloads]$ [
```

10. Download nagios and plugin source files

The above is the command - these are the 2 separate commands

Extract the source nagios file tar zxvf nagios-4.4.6.tar.gz cd nagios-4.4.6

```
[ec2-user@ip-172-31-95-252 downloads] tar zxvf nagios-4.4.6.tar.gz
cd nagios-4.4.6
nagios-4.4.6/
nagios-4.4.6/.gitignore
nagios-4.4.6/.travis.yml
nagios-4.4.6/CONTRIBUTING.md
nagios-4.4.6/Changelog
nagios-4.4.6/INSTALLING
nagios-4.4.6/LEGAL
nagios-4.4.6/LICENSE
nagios-4.4.6/Makefile.in
nagios-4.4.6/README.md
nagios-4.4.6/THANKS
nagios-4.4.6/UPGRADING
nagios-4.4.6/aclocal.m4
nagios-4.4.6/autoconf-macros/
nagios-4.4.6/autoconf-macros/.gitignore
 agios-4.4.6/autoconf-macros/CHANGELOG.mo
```

12. Run the configuration script

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

```
[ec2-user@ip-172-31-95-252 nagios-4.4.6]$ ./configure --with-command-group=nagcmd checking for a BSD-compatible install... /usr/bin/install -c checking build system type... x86_64-pc-linux-gnu checking host system type... x86_64-pc-linux-gnu checking for gcc... gcc checking whether the C compiler works... yes checking for C compiler default output file name... a.out checking for suffix of executables... checking whether we are cross compiling... no checking whether we are using the GNU C compiler... yes checking whether we are using the GNU C compiler... yes checking whether gcc accepts -g... yes checking for gcc option to accept ISO C89... none needed checking whether make sets $(MAKE)... yes checking whether ln -s works... yes checking for strip... /usr/bin/strip
```

13. Compile the source code make all

```
[ec2-user@ip-172-31-95-252 nagios-4.4.6]$ make all cd ./base && make make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.4.6/base' make -C ../lib make[2]: Entering directory '/home/ec2-user/downloads/nagios-4.4.6/lib' gcc -Wall -g -O2 -DHAVE_CONFIG_H -c squeue.c -o squeue.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c kvvec.c -o kvvec.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c iocache.c -o iocache.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c iobroker.c -o iobroker.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c bitmap.c -o bitmap.o gcc -Wall -g -O2 -DHAVE_CONFIG_H -c dkhash.c -o dkhash.o
```

```
*** Support Notes **********************
If you have questions about configuring or running Nagios,
please make sure that you:
    - Look at the sample config files
    - Read the documentation on the Nagios Library at:
         https://library.nagios.com
before you post a question to one of the mailing lists.
Also make sure to include pertinent information that could
help others help you. This might include:
    - What version of Nagios you are using
    - What version of the plugins you are using
    - Relevant snippets from your config files
    - Relevant error messages from the Nagios log file
For more information on obtaining support for Nagios, visit:
      https://support.nagios.com
*********
Enjoy.
```

14. Install binaries, init scripts, and sample configuration files sudo make install sudo make install-init sudo make install-config sudo make install-commandmode cd ./base && make install

```
[ec2-user@ip-172-31-95-252 nagios-4.4.6]$ sudo make install
sudo make install-init
sudo make install-config
sudo make install-commandmode
cd ./base && make install
cd ./base && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.4.6/base'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/bin
/usr/bin/install -c -s -m 774 -o nagios -g nagios nagios /usr/local/nagios/bin
/usr/bin/install -c -s -m 774 -o nagios -g nagios nagiostats /usr/local/nagios/bin
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.4.6/base'
cd ./cgi && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.4.6/cgi'
make install-basic
make[2]: Entering directory '/home/ec2-user/downloads/nagios-4.4.6/cgi'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/sbin
for file in *.cgi; do \
         /usr/bin/install -c -s -m 775 -o nagios -g nagios $file /usr/local/nagios/sbin; \
done
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-4.4.6/cgi'
```

- 15. Edit the config file to change the email address sudo nano /usr/local/nagios/etc/objects/contacts.cfg*Remember to edit the email only in the contacts.cfg file to the email you want
- Create a nagios admin account sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

```
[ec2-user@ip-172-31-95-252 base]$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
```

17. Restart apache

sudo systemctl restart httpd

```
[ec2-user@ip-172-31-95-252 nagios-4.4.6]$ sudo systemctl restart httpd [ec2-user@ip-172-31-95-252 nagios-4.4.6]$ [
```

18. Extract the plugin source file, using following command

```
[ec2-user@ip-172-31-95-252 nagios-4.4.6]$ cd ~/downloads
tar zxvf nagios-plugins-2.3.3.tar.gz
cd nagios-plugins-2.3.3
nagios-plugins-2.3.3/
nagios-plugins-2.3.3/perlmods/
nagios-plugins-2.3.3/perlmods/Config-Tiny-2.14.tar.gz
nagios-plugins-2.3.3/perlmods/parent-0.226.tar.gz
nagios-plugins-2.3.3/perlmods/Test-Simple-0.98.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.in
nagios-plugins-2.3.3/perlmods/version-0.9903.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.am
nagios-plugins-2.3.3/perlmods/Module-Runtime-0.013.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.3.3/perlmods/Params-Validate-1.08.tar.gz
nagios-plugins-2.3.3/perlmods/Class-Accessor-0.34.tar.gz
nagios-plugins-2.3.3/perlmods/Try-Tiny-0.18.tar.gz
```

19. Compile and install plugins

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

sudo make install

```
nagios-plugins-2.3.3/gl/m4/glibc21.m4
nagios-plugins-2.3.3/gl/m4/largefile.m4
nagios-plugins-2.3.3/gl/m4/mbrtowc.m4
nagios-plugins-2.3.3/gl/m4/locale-zh.m4
nagios-plugins-2.3.3/gl/m4/gethostname.m4
nagios-plugins-2.3.3/gl/m4/wctype h.m4
nagios-plugins-2.3.3/gl/m4/getopt.m4
nagios-plugins-2.3.3/gl/m4/time r.m4
nagios-plugins-2.3.3/gl/m4/strtoull.m4
nagios-plugins-2.3.3/gl/m4/dirname.m4
nagios-plugins-2.3.3/gl/m4/xsize.m4
nagios-plugins-2.3.3/gl/m4/gnulib-common.m4
nagios-plugins-2.3.3/gl/m4/base64.m4
nagios-plugins-2.3.3/gl/m4/arpa inet h.m4
nagios-plugins-2.3.3/gl/m4/xalloc.m4
nagios-plugins-2.3.3/gl/m4/localeconv.m4
nagios-plugins-2.3.3/gl/m4/stdio h.m4
nagios-plugins-2.3.3/gl/m4/alloca.m4
nagios-plugins-2.3.3/gl/m4/intmax t.m4
nagios-plugins-2.3.3/gl/m4/wchar t.m4
nagios-plugins-2.3.3/gl/m4/sys types h.m4
```

20. Start nagios

sudo chkconfig --add nagios sudo chkconfig nagios on sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg sudo systemctl start nagios

```
Checked 0 servic
        Checked 1 contacts.
        Checked 1 contact groups.
        Checked 24 commands.
       Checked 5 time periods. Checked 0 host escalations.
        Checked 0 service escalations.
Checking for circular paths...
        Checked 1 hosts
        Checked 0 service dependencies
       Checked 0 host dependencies
       Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...
Total Warnings: 0
Total Errors:
Things look okay - No serious problems were detected during the pre-flight check
```

Check the status of nagios sudo systemctl status nagios

22. Access the nagios web interface

- Copy the Public IP address of your EC2 instance.
- Open your browser and navigate to http://<your_public_ip_address>/nagios.
- Enter the username nagiosadmin and the password you set in Step 16.



