



Usage instructions:

1. Launch the product via 1-click. **Please wait until** the instance passes **all** status checks and is running. You can connect using your Amazon private key and '**ubuntu**' login via your SSH client.

- To update software, use: **sudo apt-get update**

Prometheus:

- Prometheus has been provisioned for automatic startup. To check that the application is running use:

sudo systemctl status prometheus

```
Last login: Wed Apr 26 20:48:03 2023 from 68.14.104.156
ubuntu@ip-10-0-0-188:~$ sudo systemctl status prometheus
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2023-04-27 18:36:24 UTC; 3min 9s ago
     Main PID: 459 (prometheus)
        Tasks: 7 (limit: 1141)
       Memory: 84.3M
          CPU: 347ms
      CGroup: /system.slice/prometheus.service
             └─459 /opt/prometheus/prometheus --config.file /opt/prometheus/prometheus.yml --st
```

Note: If you need to reload or start prometheus again use the following commands:

sudo systemctl daemon-reload

sudo systemctl start prometheus

- In a browser, open the Prometheus web interface by navigating to:

http://To Your Instance Public IPv4 address:**9090**

For ex: **http://34.192.36.07:9090**

Info: The prometheus directory is found at:

cd /opt/prometheus

Grafana:

- Grafana has also been provisioned for automatic startup. To check that the application is running use:

sudo systemctl status grafana-server

- Create a unique password for the Grafana Interface login: Run the following:

sudo grafana-cli admin reset-admin-password <new password>

- *Replace <new password> with your unique new password*

For ex: sudo grafana-cli admin reset-admin-password mynewpassword

You should see the following confirmation:

```
INFO [04-27|18:59:29] Config overridden from command line   logger=settings arg="default.paths.data=/var/lib/grafana"
INFO [04-27|18:59:29] Config overridden from command line   logger=settings arg="default.paths.logs=/var/log/grafana"
INFO [04-27|18:59:29] Config overridden from command line   logger=settings arg="default.paths.plugins=/var/lib/grafana/
INFO [04-27|18:59:29] Config overridden from command line   logger=settings arg="default.paths.provisioning=/etc/grafana/
INFO [04-27|18:59:29] Target                                logger=settings target=[all]
INFO [04-27|18:59:29] Path Home                             logger=settings path=/usr/share/grafana
INFO [04-27|18:59:29] Path Data                             logger=settings path=/var/lib/grafana
INFO [04-27|18:59:29] Path Logs                             logger=settings path=/var/log/grafana
INFO [04-27|18:59:29] Path Plugins                          logger=settings path=/var/lib/grafana/plugins
INFO [04-27|18:59:29] Path Provisioning                    logger=settings path=/etc/grafana/provisioning
INFO [04-27|18:59:29] App mode production                  logger=settings
INFO [04-27|18:59:29] Connecting to DB                     logger=sqlstore dbtype=sqlite3
INFO [04-27|18:59:29] Starting DB migrations                logger=migrator
INFO [04-27|18:59:29] migrations completed                 logger=migrator performed=0 skipped=484 duration=1.370533ms
INFO [04-27|18:59:29] Envelope encryption state            logger=secrets enabled=true current provider=secretKey.v1

Admin password changed successfully
```

- Next, in a browser, open the Grafana web interface by navigating to:

http://To Your Instance Public IPv4 address:3000

For ex: **http://34.192.36.07:3000**

- Login username: **admin** & use your newly created password

Getting started

- To add Prometheus as a data source, click on the icon on the **left sidebar** and select "Administration" then "Data Sources"
- Click on the "**Add data source**" button, select "Prometheus" as the data source type, and enter the URL of your Prometheus server (<http://Your Public IPv4 address:9090>)
- Click on the "Save & Test" button to save the data source and test the connection.
- You can now create new dashboards in Grafana and add Prometheus data to them by using the query editor

Note: If you need to reload or start Grafana again use the following commands:

```
sudo systemctl start grafana-server
```

```
sudo systemctl status grafana-server
```

AWS Data

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized_keys & /home/ubuntu/.ssh/authorized_keys
- Monitor the health:
 - Navigate to your Amazon EC2 console and verify that you're in the correct region.
 - Choose Instance and select your launched instance.
 - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.
5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html>