

Install Prometheus Server

- Configuration basic authentication username/password
- Screenshot of login prompt while trying to access prometheus
- Screenshot of prometheus dashboard

Download and Install Prometheus using,

```
VERSION=$(curl  
https://raw.githubusercontent.com/prometheus/prometheus/master/VERSION  
)
```

wget

```
https://github.com/prometheus/prometheus/releases/download/v\${VERSION}/  
prometheus-\${VERSION}.linux-amd64.tar.gz
```

```
tar xvzf prometheus-${VERSION}.linux-amd64.tar.gz
```

```
lostinserver@lostinserver:~$ VERSION=$(curl https://raw.githubusercontent.com/pr  
ometheus/prometheus/master/VERSION)  
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
             Dload  Upload  Total   Spent    Left     Speed  
100  12  100  12    0    0    10      0  0:00:01  0:00:01 --:--:--   10  
lostinserver@lostinserver:~$ wget https://github.com/prometheus/prometheus/relea  
ses/download/v${VERSION}/prometheus-${VERSION}.linux-amd64.tar.gz  
--2021-12-06 11:16:09-- https://github.com/prometheus/prometheus/releases/downl  
oad/v2.32.0-rc.0/prometheus-2.32.0-rc.0.linux-amd64.tar.gz  
Resolving github.com (github.com)... 20.205.243.166  
Connecting to github.com (github.com)|20.205.243.166|:443... connected.  
HTTP request sent, awaiting response... 302 Found  
Location: https://objects.githubusercontent.com/github-production-release-asset-  
2e65be/6838921/d4b11ccb-c6e4-4401-9d93-1da7f6716c24?X-Amz-Algorithm=AWS4-HMAC-SH  
A256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20211206%2Fus-east-1%2Fs3%2Faws4_re  
quest&X-Amz-Date=20211206T053110Z&X-Amz-Expires=300&X-Amz-Signature=66e0dc227ad4  
90dabb4045189cb325260694eab395c876e647bc3e4408d0cbf7&X-Amz-SignedHeaders=host&ac  
tor_id=0&key_id=0&repo_id=6838921&response-content-disposition=attachment%3B%20f  
ilename%3Dprometheus-2.32.0-rc.0.linux-amd64.tar.gz&response-content-type=applic  
ation%2Foctet-stream [following]  
--2021-12-06 11:16:10-- https://objects.githubusercontent.com/github-production  
-release-asset-2e65be/6838921/d4b11ccb-c6e4-4401-9d93-1da7f6716c24?X-Amz-Algorit
```

```

prometheus-2.32.0-r 100%[=====>] 71.61M 2.95MB/s in 34s
2021-12-06 11:16:47 (2.09 MB/s) - 'prometheus-2.32.0-rc.0.linux-amd64.tar.gz' saved [75092211/75092211]

lostinservice@lostinservice:~$ tar xvzf prometheus-${VERSION}.linux-amd64.tar.gz
prometheus-2.32.0-rc.0.linux-amd64/
prometheus-2.32.0-rc.0.linux-amd64/consales/
prometheus-2.32.0-rc.0.linux-amd64/consales/index.html.example
prometheus-2.32.0-rc.0.linux-amd64/consales/node-cpu.html
prometheus-2.32.0-rc.0.linux-amd64/consales/node-disk.html
prometheus-2.32.0-rc.0.linux-amd64/consales/node-overview.html
prometheus-2.32.0-rc.0.linux-amd64/consales/node.html
prometheus-2.32.0-rc.0.linux-amd64/consales/prometheus-overview.html
prometheus-2.32.0-rc.0.linux-amd64/consales/prometheus.html
prometheus-2.32.0-rc.0.linux-amd64/console_libraries/
prometheus-2.32.0-rc.0.linux-amd64/console_libraries/menu.lib

```

Now to create password using bcrypt module we do as,

python3

import getpass

import bcrypt

hashed_password = bcrypt.hashpw("centos".encode("utf-8"),

bcrypt.gensalt())

hashed_password.decode()

```

lostinservice@lostinservice:~$ python3
Python 3.8.10 (default, Sep 28 2021, 16:10:42)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import getpass
>>> import bcrypt
>>> hashed_password = bcrypt.hashpw("centos".encode("utf-8"), bcrypt.gensalt())
>>> hashed_password.decode()
'$2b$12$okVzrlphQlu6MYHwLdV5Eem2RTFouYpla5Lv.WvUru7lj.XHRlgxe'
>>> █

```

Now we set basic auth,

sudo vi /etc/prometheus/web.yml

```
basic_auth_users:
  admin: $2b$12$0KVzrlphQlu6MYHwLdV5Eem2RTFouYpla5Lv.WvUru7lj.XHRIgxe
```

\$2b\$12\$0KVzrlphQlu6MYHwLdV5Eem2RTFouYpla5Lv.WvUru7lj.XHRIgxe is our hashed password.

```
lostins@lostins:~$ sudo cp prometheus-2.32.0-rc.0.linux-amd64/prometheus
prometheus prometheus.yml
lostins@lostins:~$ sudo cp prometheus-2.32.0-rc.0.linux-amd64/promtool /usr/local/bin
lostins@lostins:~$ sudo cp prometheus-2.32.0-rc.0.linux-amd64/promtool /usr/local/bin
lostins@lostins:~$ sudo cp prometheus-2.32.0-rc.0.linux-amd64/consoles/ /etc/prometheus/
cp: -r not specified; omitting directory 'prometheus-2.32.0-rc.0.linux-amd64/consoles/'
lostins@lostins:~$ sudo cp prometheus-2.32.0-rc.0.linux-amd64/consoles /etc/prometheus/
cp: -r not specified; omitting directory 'prometheus-2.32.0-rc.0.linux-amd64/consoles'
lostins@lostins:~$ sudo cp -r prometheus-2.32.0-rc.0.linux-amd64/consoles /etc/prometheus/
lostins@lostins:~$ sudo cp -r prometheus-2.32.0-rc.0.linux-amd64/console_libraries /etc/prometheus/
lostins@lostins:~$
```

Now we create service file and modify as below:

sudo vi /etc/systemd/system/prometheus.service

```
[Unit]
Description=Prometheus service file
After=network.target

[Service]
Type=simple
ExecStart=/usr/local/bin/prometheus \
  --config.file /etc/prometheus/prometheus.yml \
  --storage.tsdb.path /var/lib/prometheus/ \
  --web.console.templates=/etc/prometheus/consoles \
  --web.console.libraries=/etc/prometheus/console_libraries \
  --web.config.file /etc/prometheus/web.yml

[Install]
WantedBy=multi-user.target
```

Now run the below,

Systemctl daemon-reload

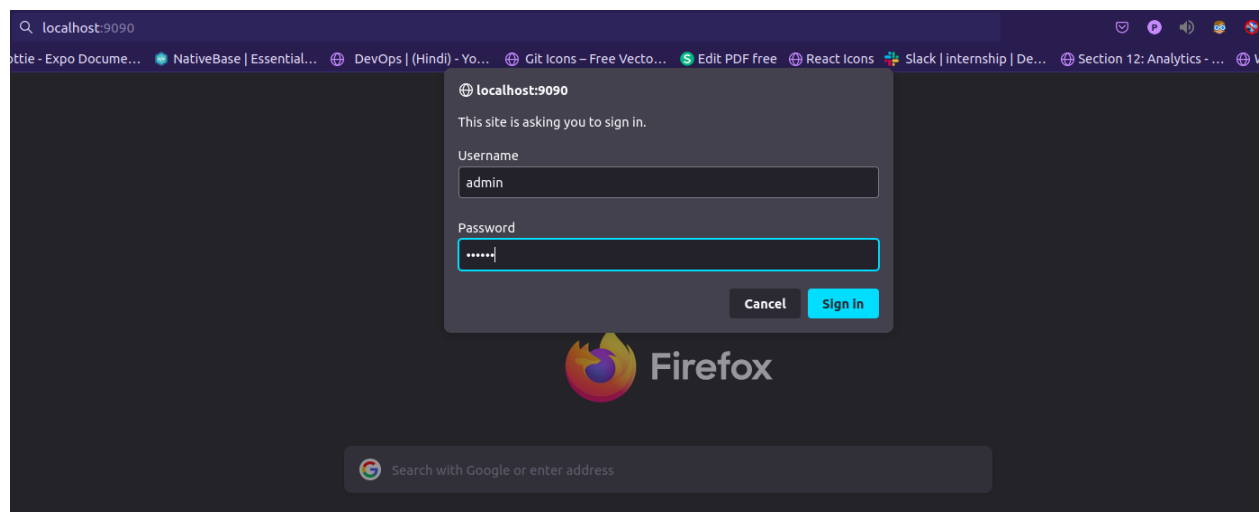
Systemctl restart prometheus.service

Systemctl status prometheus.service

```
lostinsrver@lostinsrver:~$ sudo systemctl daemon-reload
lostinsrver@lostinsrver:~$ sudo systemctl restart prometheus.service
lostinsrver@lostinsrver:~$ sudo systemctl status prometheus.service
● prometheus.service - Prometheus service file
   Loaded: loaded (/etc/systemd/system/prometheus.service; disabled; vendor preset: ena
   Active: active (running) since Mon 2021-12-06 12:09:04 +0545; 1s ago
     Main PID: 76580 (prometheus)
        Tasks: 9 (limit: 9364)
       Memory: 18.7M
      CGroup: /system.slice/prometheus.service
              └─76580 /usr/local/bin/prometheus --config.file /etc/prometheus/prometheus.y

दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.593Z caller=hea
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.593Z caller=hea
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.593Z caller=hea
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.594Z caller=hea
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.594Z caller=hea
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.595Z caller=mai
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.595Z caller=mai
दि सम्बर 06 12:09:04 lostinsrver prometheus[76580]: ts=2021-12-06T06:24:04.595Z caller=mai
```

Login to the port **9090** with user **admin** and password as **centos** as,



We can finally see the **prometheus** homepage as,

