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Install Prometheus On Ubuntu

1. Download Prometheus

Download the latest version of Prometheus

```
wget https://github.com/prometheus/prometheus/releases/download/v2.45.0/prometheus-2.45.0.linux-amd64.tar.gz
```

2. Extract the Tarball

```
tar xvf prometheus-2.45.0.linux-amd64.tar.gz
```

3. Move the Prometheus Files

Navigate into the directory where you have extracted or downloaded the Prometheus binary files:

```
cd prometheus-2.45.0.linux-amd64
```

Move the configuration file to /etc/prometheus:

```
sudo mkdir -p /etc/prometheus
```

```
sudo mv prometheus.yml /etc/prometheus/
```

Move Prometheus and promtool binaries to /usr/local/bin/ for easier execution:

```
sudo mv prometheus /usr/local/bin/
```

```
sudo mv promtool /usr/local/bin/
```

```
cd /
```

4. Create Necessary Directories

Create the directory where Prometheus will store its data:

```
sudo mkdir -p /var/lib/prometheus
```

Make sure the prometheus user has the right permissions to access the Prometheus files and directories. This is crucial to avoid permission issues:

```
sudo useradd --no-create-home --shell /bin/false prometheus
```

```
sudo chown -R prometheus:prometheus /usr/local/bin/prometheus /usr/local/bin/promtool  
/etc/prometheus/prometheus.yml /var/lib/prometheus
```

5. Create Systemd Service File

Create the systemd service file for Prometheus:

```
sudo nano /etc/systemd/system/prometheus.service
```

Insert the following content:

[Unit]

Description=Prometheus Monitoring

After=network.target

[Service]

User=prometheus

Group=prometheus

**ExecStart=/usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --
storage.tsdb.path=/var/lib/prometheus/**

[Install]

WantedBy=multi-user.target

6. Reload Systemd, Start and Enable Prometheus

Reload systemd to recognize the new service configuration:

```
sudo systemctl daemon-reload
```

Now, start Prometheus:

```
sudo systemctl start prometheus
```

Enable Prometheus to start on boot:

```
sudo systemctl enable prometheus
```

7. Verify Prometheus Status

Check the status of the Prometheus service:

```
sudo systemctl status prometheus
```

If everything is working, Prometheus should now be running without any errors.

8. Access Prometheus Web Interface

You can access the Prometheus web interface by opening your browser and navigating to:

```
http://<your_server_ip>:9090
```

For example, if you are running it locally, it will be:

** <http://localhost:9090> **

Key Changes in This Revised Installation:

1. Directory Creation:

I added the creation of /var/lib/prometheus to ensure Prometheus has a storage location.

2. Permissions:

Ensured that all necessary directories and files have the correct ownership by the prometheus user.

3. Systemd Service File:

Ensured the service file is correctly configured to point to the correct paths for the binaries, configuration, and data storage.