

Lesson Description - Installing Pushgateway

Prometheus Pushgateway acts as a middleman between Prometheus and short-lived processes that require a push-based method for getting metrics into Prometheus. In this lesson, we demonstrate the process of installing Pushgateway. Then, we configure our Prometheus server to scrape metrics from Pushgateway.

Relevant Documentation

- [Pushing Metrics](#)
- [Prometheus Pushgateway](#)

Lesson Reference

Install Pushgateway

Log in to the Prometheus server.

Create a user and group for Pushgateway:

```
sudo useradd -M -r -s /bin/false pushgateway
```

Download and install the Pushgateway binary:

```
wget https://github.com/prometheus/pushgateway/releases/download/v1.2.0/pushgateway-1.2.0.linux-amd64.tar.gz
```

```
tar xvfz pushgateway-1.2.0.linux-amd64.tar.gz
```

```
sudo cp pushgateway-1.2.0.linux-amd64/pushgateway /usr/local/bin/
```

```
sudo chown pushgateway:pushgateway /usr/local/bin/pushgateway
```

Create a `systemd` unit file for Pushgateway:

```
sudo vi /etc/systemd/system/pushgateway.service
```

```
[Unit]
Description=Prometheus Pushgateway
Wants=network-online.target
After=network-online.target

[Service]
User=pushgateway
Group=pushgateway
Type=simple
ExecStart=/usr/local/bin/pushgateway

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

Start and enable the **pushgateway** service:

```
sudo systemctl enable pushgateway
```

```
sudo systemctl start pushgateway
```

Verify the service is running and it is serving metrics:

```
sudo systemctl status pushgateway
```

```
curl localhost:9091/metrics
```

Configure Prometheus to Scrape Metrics from Pushgateway

Edit the Prometheus config:

```
sudo vi /etc/prometheus/prometheus.yml
```

Under the **scrape_configs** section, add a scrape configuration for Pushgateway. Be sure to set **honor_labels: true**:

```
- job_name: 'Pushgateway'
  honor_labels: true
  static_configs:
    - targets: ['localhost:9091']
```

Restart Prometheus to load the new configuration:

```
sudo systemctl restart prometheus
```

Use the expression browser to verify you can see Pushgateway metrics in Prometheus. You can access the expression browser in a web browser at http://<PROMETHEUS_SERVER_PUBLIC_IP>:9090.

Run a query to view some Pushgateway metric data:

```
pushgateway_build_info
```