

# Monitoring Databases

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# Overview



## Database exporters for Prometheus

### MySQL server exporter

- Install and configure



# Database Metrics



**More than just system metrics**

**Database-specific metrics**

- View into database performance

**Prometheus database exporters**

- <https://prometheus.io/docs/instrumenting/exporters/#databases>

# MySQL Server Exporter



## Database-specific Metrics

Monitor database activity and settings



## Download

[https://prometheus.io/download/#mysqld\\_exporter](https://prometheus.io/download/#mysqld_exporter)



```
CREATE USER 'mysqld_exporter'@'localhost' IDENTIFIED BY 'password';  
  
GRANT PROCESS, REPLICATION CLIENT, SELECT ON *.* TO  
'mysqld_exporter'@'localhost';  
  
FLUSH PRIVILEGES;  
  
export DATA_SOURCE_NAME='mysqld_exporter:password@(localhost:3306)/'
```

# MySQL Database Configuration

## Create a database user

- Grant permissions

## Provide credentials to exporter

- Many different options depending on your system



```
wget https://github.com/  
prometheus/mysqld_exporter/releases  
/download/v*/mysqld_exporter-  
*.*.linux-amd64.tar.gz
```

```
tar xvfz mysqld_exporter-*.*-  
amd64.tar.gz
```

```
cd mysqld_exporter-*.*-amd64
```

```
./mysqld_exporter > mysqld.out 2>&1
```

```
curl http://localhost:9104/metrics
```

◀ Get the exporter tar

◀ Unpack the tar

◀ Move into folder

◀ Start the exporter

◀ Check that metrics are publishing



```
prometheus/prometheus.yml
```

```
scrape_configs:
```

```
- job_name: 'mysqld_exporter'
```

```
  static_configs:
```

```
  - targets: ['172.31.18.7:9104']
```

## Prometheus Configuration for Exporter

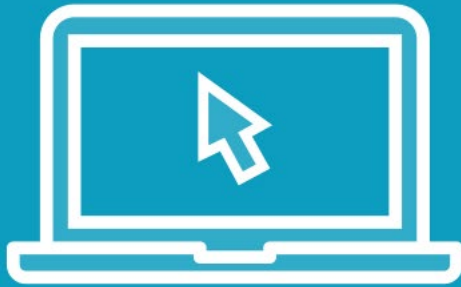
**Create a job to pull metrics from exporter**

**IP will depend on your network setup (internal vs. external IP)**

**Restart Prometheus to pick up the change**



# Demo



## MySQL Exporter

- Install and configure on Linux machine

**View results in Prometheus**





# Summary



**Prometheus database exporters**

**MySQL exporter install and config**

- Metrics exposed to monitor database



Up Next:

Monitoring Network Endpoints

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