

# WCS integration to Prometheus

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[Prometheus](#) is the open source monitoring system and time series database. WCS supports [Prometheus metric format](#) since build [5.2.416](#), no WCS setup is needed to integrate with Prometheus monitoring.

## WCS metrics collection

To set up Prometheus to collect WCS metrics, the following scrape configuration should be described in `prometheus.yml`

```
scrape_configs:
- job_name: 'flashphoner'
  metrics_path: '/'
  params:
    action: [stat]
    format: [prometheus]
  static_configs:
    - targets: ['WCS_address:8081']
```

Where

- `WCS_address` - WCS server address
- `8081` - WCS server port to request metrics

As a result, Prometheus should form the following query

```
http://WCS_address:8081/?action=stat&format=prometheus
```

and receive WCS statistics metrics in its format.

Since build [5.2.518](#), [metrics](#) of published streams can be requested by the following query

```
http://WCS_address:8081/?action=stat&format=prometheus&groups=publish_streams
```

## Server instance metrics collection

Server instance on which WCS is installed operating system metrics can be collected to Prometheus using [Prometheus Node Exporter](#) module. To install the module, use the following script

## Prometheus Node Exporter install script

```
#!/bin/bash
wget https://github.com/prometheus/node_exporter/releases/download/v1.0.1/node_exporter-1.0.1.linux-amd64.tar.gz
tar zxvf node_exporter-*.linux-amd64.tar.gz
cd node_exporter-*.linux-amd64
sudo cp node_exporter /usr/local/bin/
sudo useradd --no-create-home --shell /bin/false nodeusr
sudo chown -R nodeusr:nodeusr /usr/local/bin/node_exporter

sudo cat > /etc/systemd/system/node_exporter.service << EOF
[Unit]
Description=Node Exporter Service
Wants=network-online.target
After=network.target

[Service]
User=nodeusr
Group=nodeusr
Type=simple
ExecStart=/usr/local/bin/node_exporter
ExecReload=/bin/kill -HUP $MAINPID
Restart=on-failure

[Install]
WantedBy=multi-user.target
EOF
sudo systemctl daemon-reload
sudo systemctl enable node_exporter
sudo systemctl start node_exporter
```