

# How to add basic auth

- 1 Introduction
- 2 Prepare username and hashed password
- 3 Set up basic auth for Onpremise
- 4 Set up basic auth for Relay Exporter
- 5 Set up basic auth for Frontend Exporter
- 6 Set up basic auth for Postgre Exporter
- 7 Set up basic auth for Windows Exporter
- 8 Set up basic auth for Prometheus
- 9 Restart the services

## 1 Introduction

Prometheus supports basic authentication (aka "basic auth") for connections to the Prometheus expression browser and HTTP API. For security reasons, you can follow the SOP to set up basic auth for each exporter and Prometheus.

## 2 Prepare username and hashed password

- Go to <https://prometheus.io/docs/guides/basic-auth> and follow the guide to hash the password.
- Create `web.yml`.
- Copy the basic auth parameters to `web.yml` and replace `user: bcrypt(pass)` with the actual username and hashed password.

```
1 basic_auth_users:  
2   user: bcrypt(pass)
```

- Save the file `web.yml`.

## 3 Set up basic auth for Onpremise

- Go to `{InstallDir}` and edit `config.yaml`.
- Add the basic auth parameters in the `Metrics:` section

```
1 Metrics:  
2   Enable: true  
3   Addr: 0.0.0.0:9980  
4   Period: 15  
5   basic_auth_users:  
6     user: bcrypt(pass)
```

- Save the file `config.yaml`.
- Run Command Prompt as administrator, then run the below script to restart Onpremise service.

```
1 net stop OnpremiseSvr  
2 net start OnpremiseSvr
```

## 4 Set up basic auth for Relay Exporter

- Copy `relay_exporter.yaml` to `C:\Program Files\RelayExporter`.
- Edit `relay_exporter.yaml`
  - Replace `user: bcrypt(pass)` with the actual username and hashed password on line 10.
  - Remove `"#"` on line 9/10.
  - Ensure `%InstallPath%` has been replaced with your actual `{InstallDir}` on line 23.

```
1 log_path: "log/relay_exporter.log"  
2 log_size: 20 # Mega in unit  
3 log_age: 15 # max log age  
4 log_backup: 15 # max log files  
5 servers:  
6   relay:  
7     enable: true  
8     listen: ":5681"  
9     basic_auth:  
10      user: bcrypt(pass)  
11   instances:  
12     relay:  
13       interval: 10  
14       mode: last  
15       formatter:  
16         name: prometheus  
17         prefix: relay  
18         includes:  
19           - TotalConnections
```

```

20     - BusyConnections
21     input:
22       name: poll
23       filename: '%InstallPATH%\log\relay_statistics.last.log'
24       parser:
25         name: kv
26         sep: " "
27         kvsep: "="

```

- Save the file `relay_exporter.yaml`.

## 5 Set up basic auth for Frontend Exporter

- Copy `frontend_exporter.yaml` to `C:\Program Files\FrontendExporter`.
- Edit `frontend_exporter.yaml`
  - Replace `user: bcrypt(pass)` with the actual username and hashed password on line 10.
  - Remove `##` on line 9/10.
  - Ensure `%InstallPATH%` has been replaced with your actual `{InstallDir}` on line 23.

```

1 log_path: "log/relay_exporter.log"
2 log_size: 20 # Mega in unit
3 log_age: 15 # max log age
4 log_backup: 15 # max log files
5 servers:
6   frontend:
7     enable: true
8     listen: ":5682"
9     basic_auth:
10      user: bcrypt(pass)
11   instances:
12     frontend:
13       interval: 10
14       mode: last
15       formatter:
16         name: prometheus
17         prefix: relay
18         includes:
19           - RunningRelays
20           - DeadRelays
21     input:
22       name: poll
23       filename: '%InstallPATH%\log\frontend_statistics.last.log'
24       parser:
25         name: kv
26         sep: " "
27         kvsep: "="

```

- Save the file `frontend_exporter.yaml`.

## 6 Set up basic auth for Postgre Exporter

- Edit `PostgresExporterService.xml` at `C:\Program Files\PostgresExporter`.
- Add `<arguments>--web.config.file=web.yaml</arguments>` to `PostgresExporterService.xml` and make sure the `password` on line 6 has been replaced with your actual password.

```

1 <service>
2   <id>PostgresExporter</id>
3   <name>PostgresExporter</name>
4   <description>PostgresExporter</description>
5   <workingdirectory>C:\Program Files\PostgresExporter</workingdirectory>
6   <env name="DATA_SOURCE_NAME" value="postgresql://postgres_exporter:password@localhost:5432/postgres?sslmode=disable" />
7   <executable>postgres_exporter.exe</executable>
8   <arguments>--web.config.file=web.yaml</arguments>
9   <log mode="roll" />
10  <onfailure action="restart" />
11 </service>

```

- Save the file `PostgresExporterService.xml`.
- Copy `web.yaml` to `C:\Program Files\PostgresExporter`.

## 7 Set up basic auth for Windows Exporter

- Edit `WindowsExporterService.xml` at `C:\Program Files\WindowsExporter`.
- Add `<arguments>--web.config.file=web.yaml</arguments>` to `WindowsExporterService.xml`.

```

1 <service>
2   <id>WindowsExporter</id>
3   <name>WindowsExporter</name>
4   <description>WindowsExporter</description>
5   <workingdirectory>C:\Program Files\WindowsExporter</workingdirectory>

```

```

6 <executable>windows_exporter.exe</executable>
7 <arguments>--web.config.file=web.yml</arguments>
8 <log mode="roll" />
9 <onfailure action="restart" />
10 </service>

```

- Save the file `WindowsExporterService.xml`.
- Copy `web.yml` to `C:\Program Files\WindowsExporter`.

## 8 Set up basic auth for Prometheus

- Add basic auth to each job in `prometheus.yml`, replace the `user`, and `pass` with the actual username and plaintext password.

```

1 global:
2   scrape_interval: 15s # By default, scrape targets every 15 seconds.
3
4   # Attach these labels to any time series or alerts when communicating with
5   # external systems (federation, remote storage, Alertmanager).
6   external_labels:
7     monitor: 'codelab-monitor'
8
9   # data will keep 3days
10 alerting:
11   alertmanagers:
12     - static_configs:
13       - targets: ['127.0.0.1:9093']
14 rule_files:
15   - rules.yml
16 # A scrape configuration containing exactly one endpoint to scrape:
17 # Here it's Prometheus itself.
18 scrape_configs:
19   # The job name is added as a label `job=<job_name>` to any timeseries scraped from this config.
20   - job_name: 'prometheus'
21     # Override the global default and scrape targets from this job every 5 seconds.
22     scrape_interval: 15s
23     static_configs:
24       - targets: ['127.0.0.1:9090']
25   - job_name: 'windows_exporter'
26     scrape_interval: 15s
27     static_configs:
28       - targets: ['gateway_ip:9182']
29     basic_auth:
30       username: user
31       password: pass
32   - job_name: 'postgres-exporter'
33     scrape_interval: 15s
34     static_configs:
35       - targets: ['gateway_ip:9187']
36     basic_auth:
37       username: user
38       password: pass
39   - job_name: 'onpremise'
40     scrape_interval: 15s
41     static_configs:
42       - targets: ['gateway_ip:9980']
43     basic_auth:
44       username: user
45       password: pass
46   - job_name: 'relay'
47     scrape_interval: 10s
48     static_configs:
49       - targets: ['gateway_ip:5681']
50     basic_auth:
51       username: user
52       password: pass
53   - job_name: 'relay_frontend'
54     scrape_interval: 10s
55     static_configs:
56       - targets: ['gateway_ip:5682']
57     basic_auth:
58       username: user
59       password: pass

```

- Save the file `prometheus.yml`.

## 9 Restart the services

- Restart the Splashtop® Gateway Service.
- Restart the Prometheus service.
- Done !