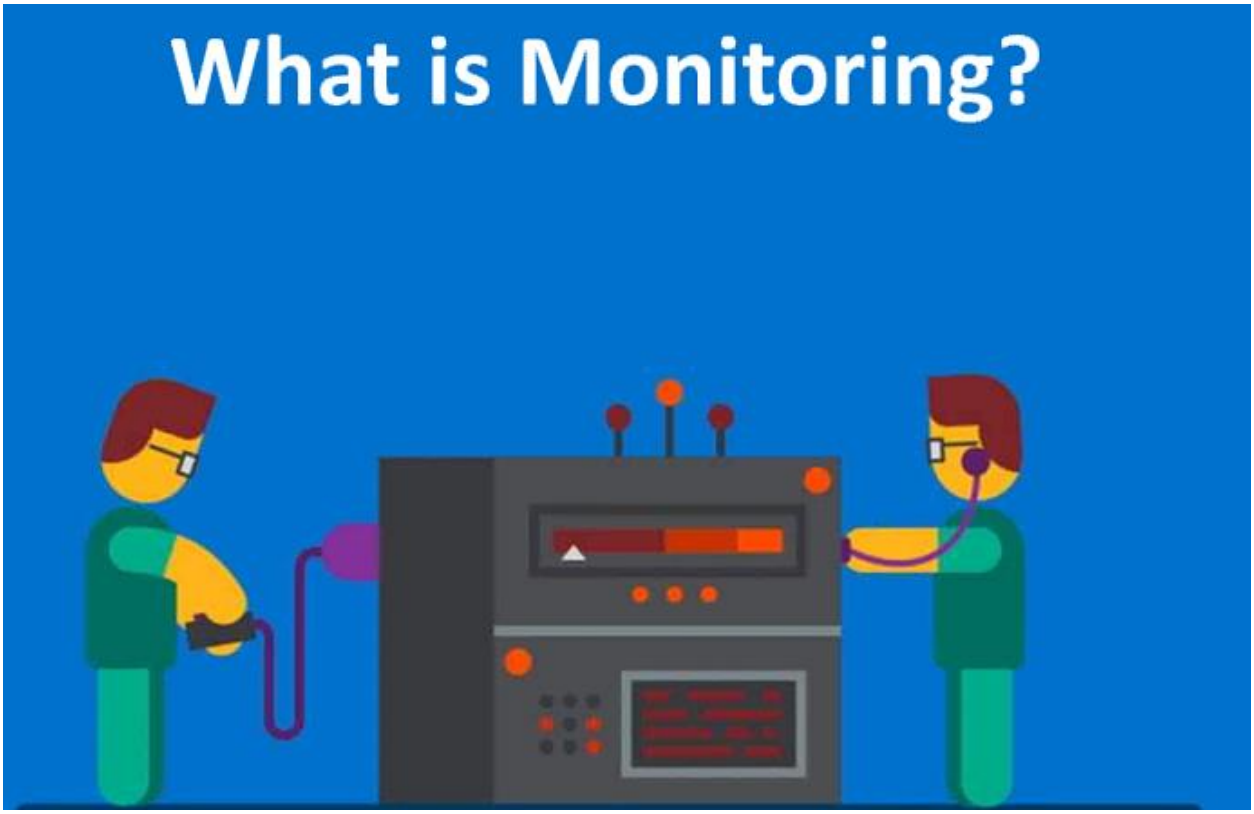
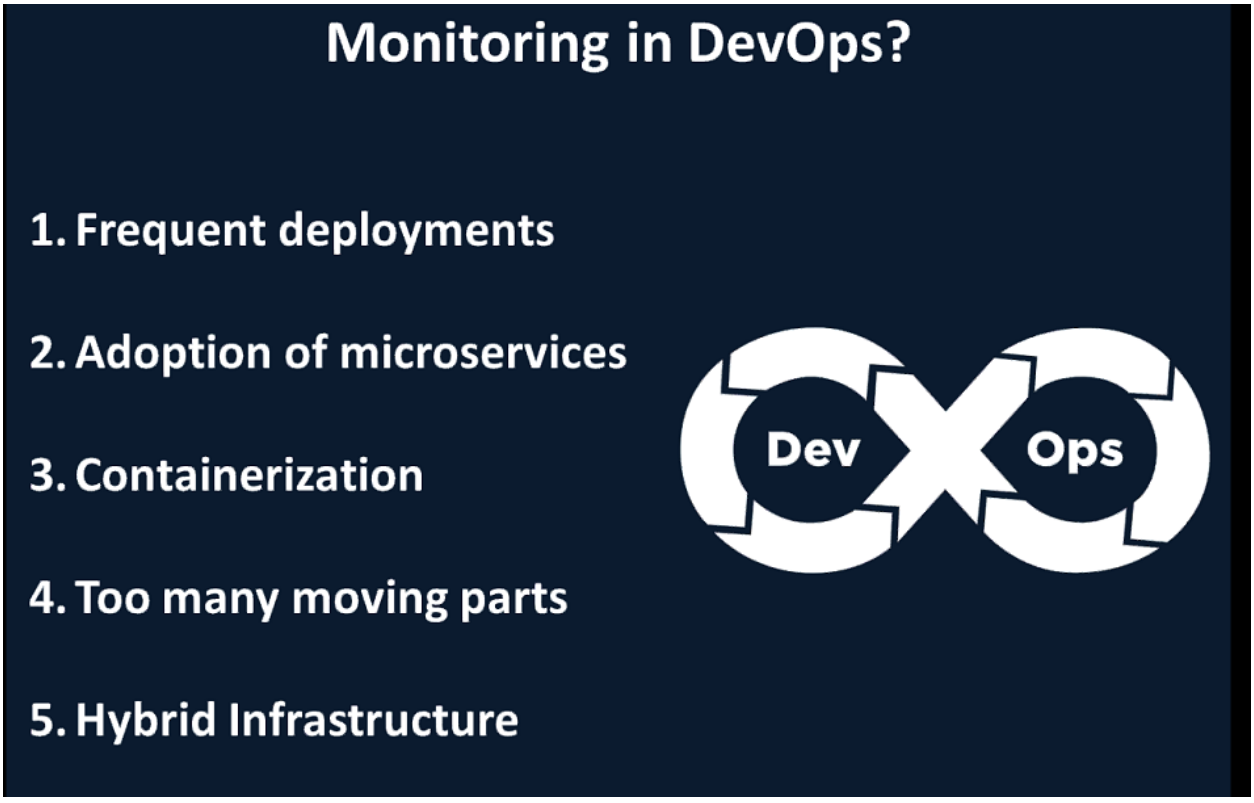
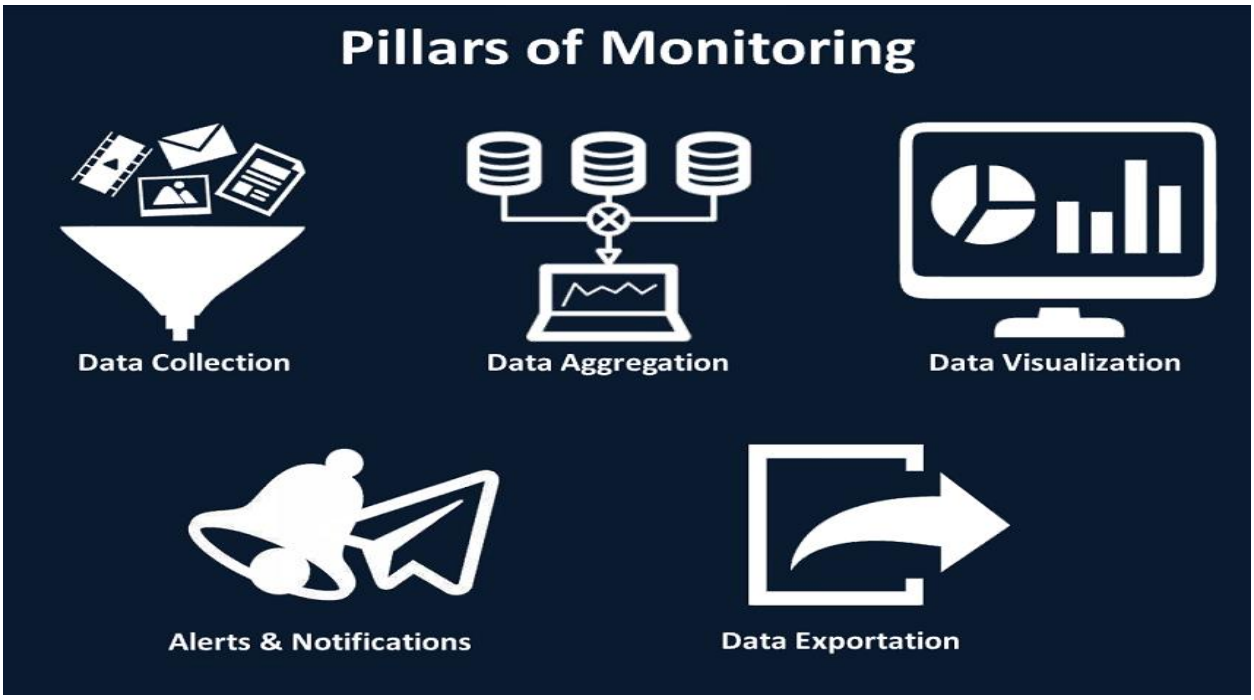
What is Monitoring

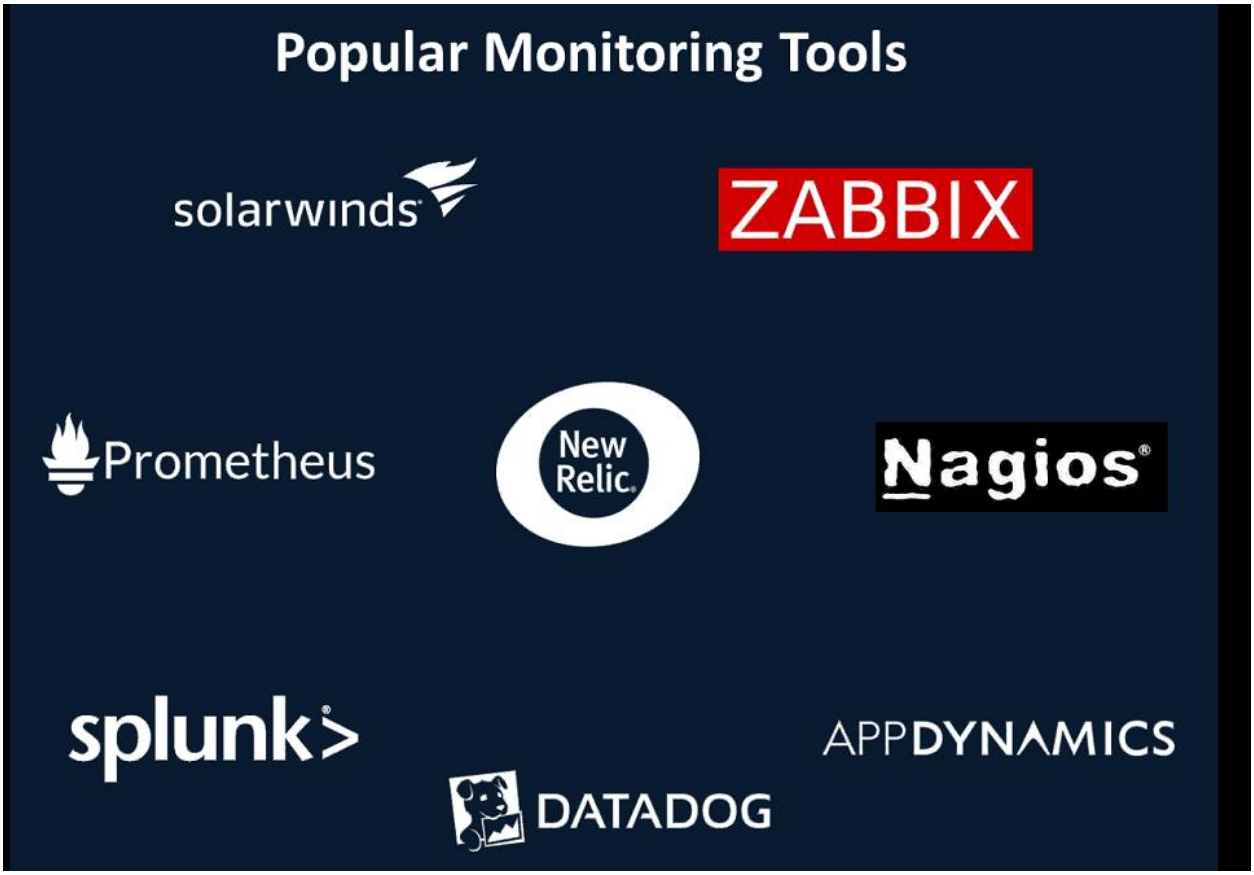




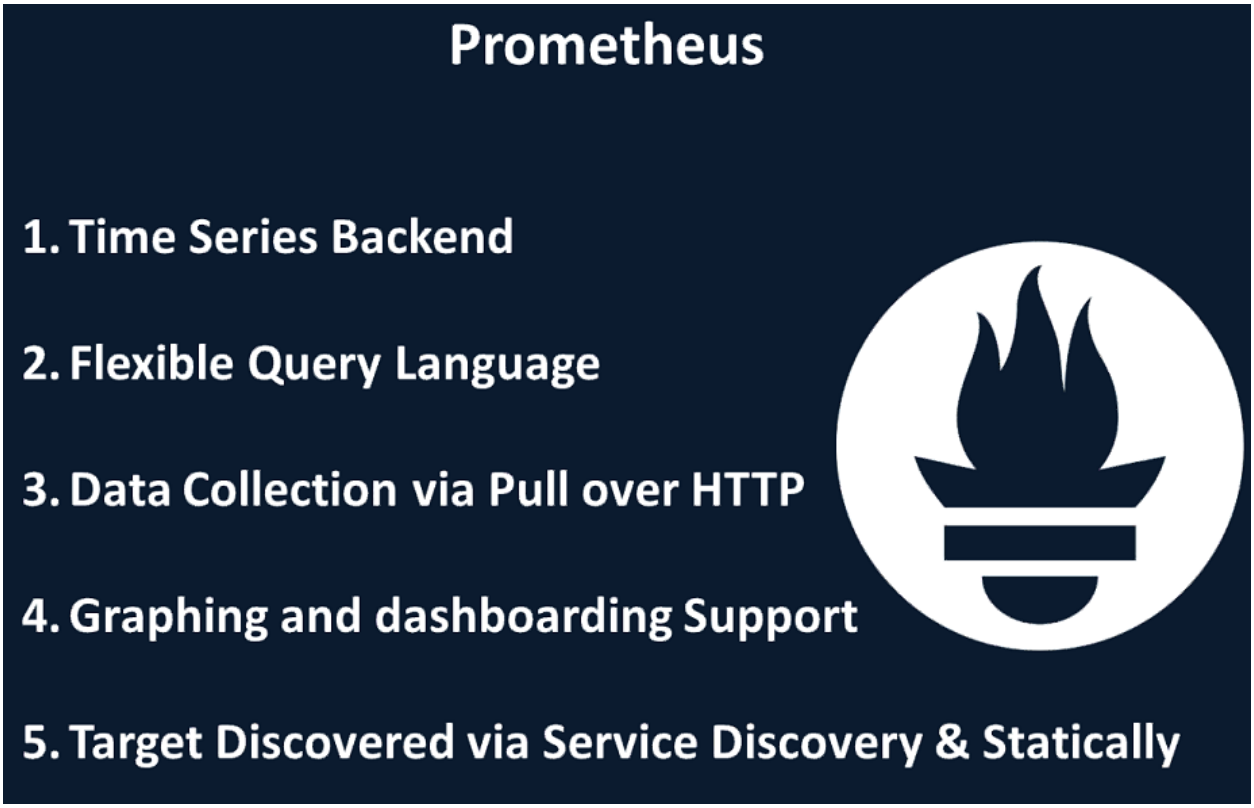


Data Collection→Pull and Push based Monitoring System

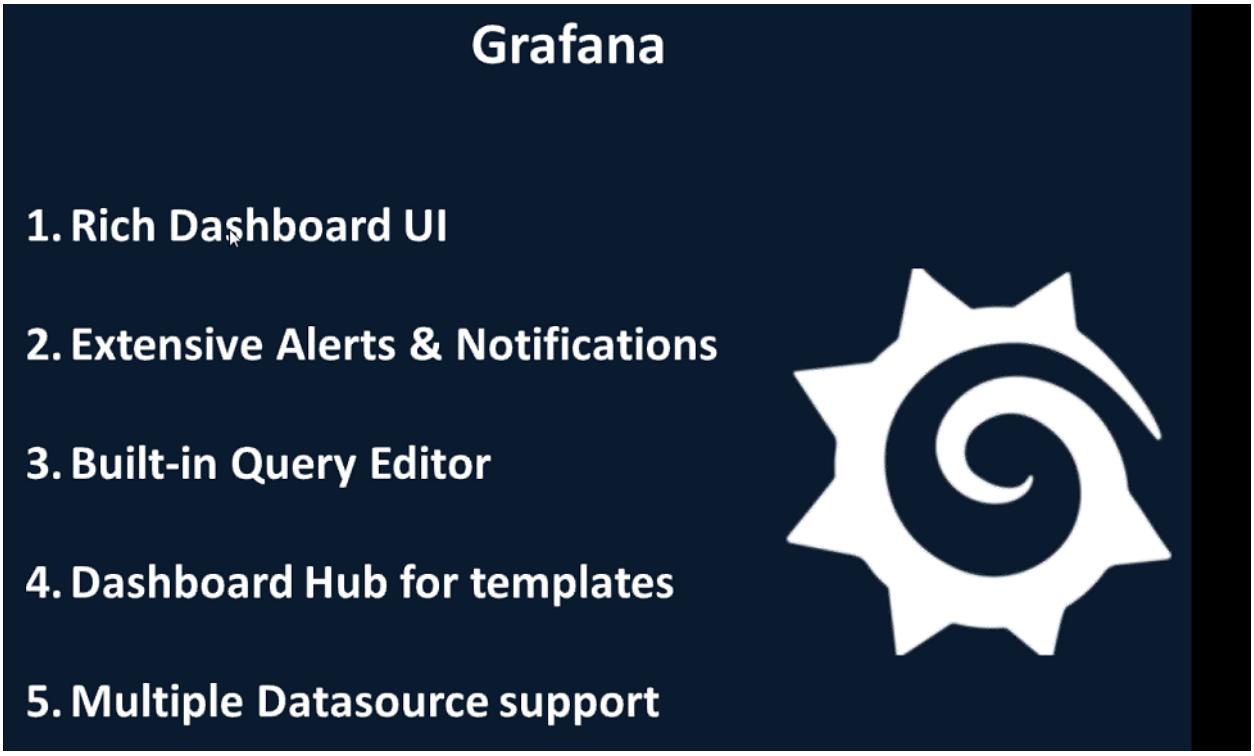
Data Visualization→ Data driven document tool



Typical Monitoring Tools:



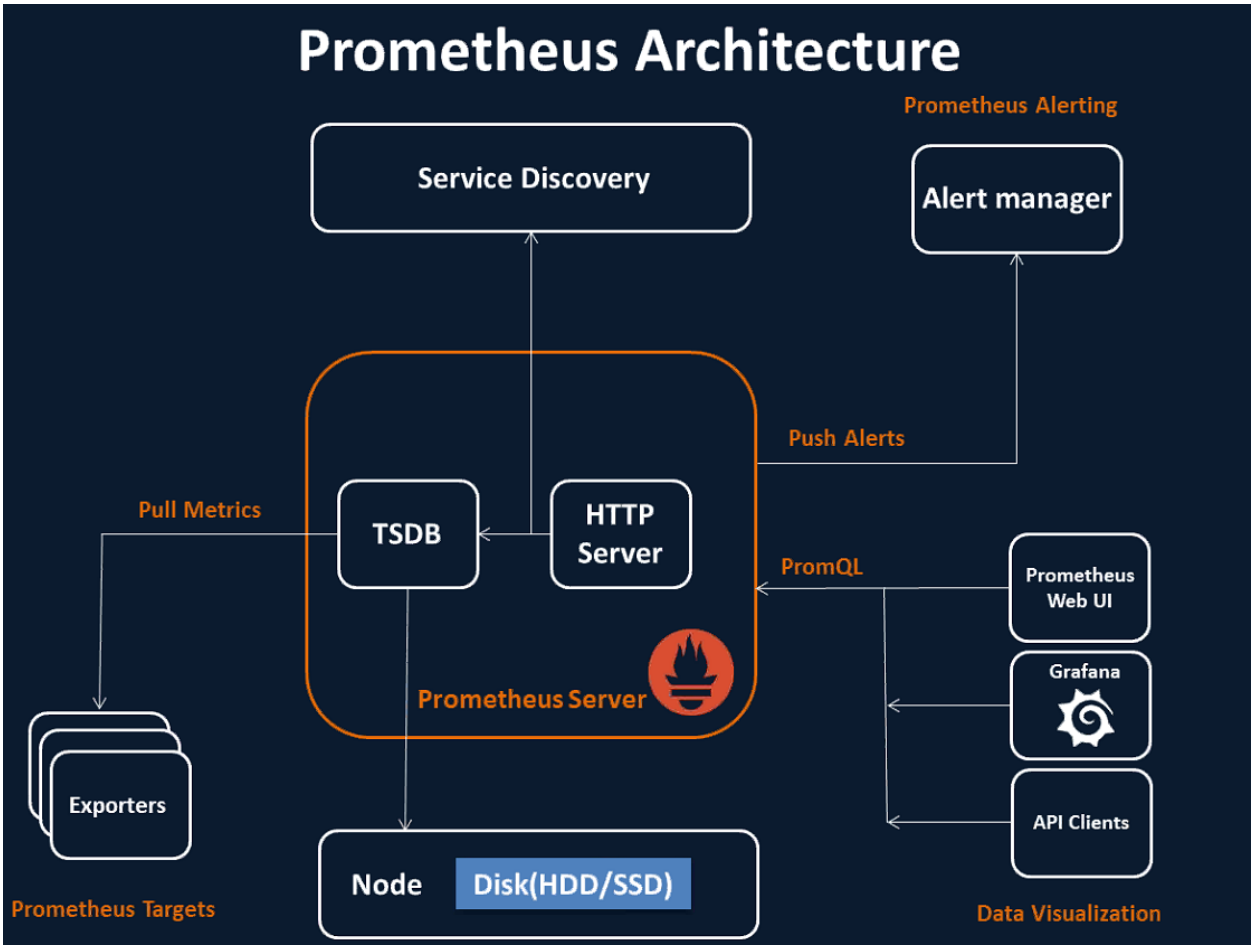
Service Discovery: Eureka acts as a register. Any new servers will be registered.



Prometheus for Windows:
https://github.com/prometheus/prometheus/releases/download/v2.3.2/prometheus-2.3.2.windows-amd64.tar.gz

Grafana for windows: https://s3-us-west-2.amazonaws.com/grafana-releases/release/grafana-5.2.3.windows-amd64.zip

WMI exporter:
https://github.com/martinlindhe/wmi_exporter/releases/download/v0.4.3/wmi_exporter-0.4.3-386.msi

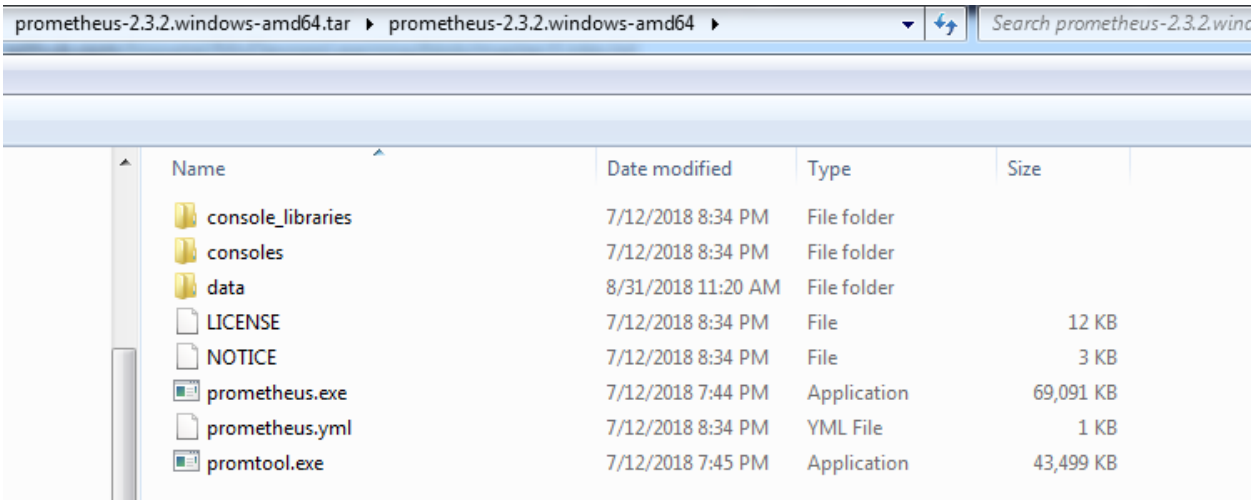


TSDB ： Time Series DataBase

Prometheus Installation

1. Download and extract the Prometheus file
2. Open the extracted folder
3. Hold the shift key and click “File→ Open command window here”
4. Type prometheus.exe in the command window
5. Open your browser and type “localhost:9090” and enter

Link: https://github.com/prometheus/prometheus/releases/download/v2.3.2/prometheus-2.3.2.windows-amd64.tar.gz

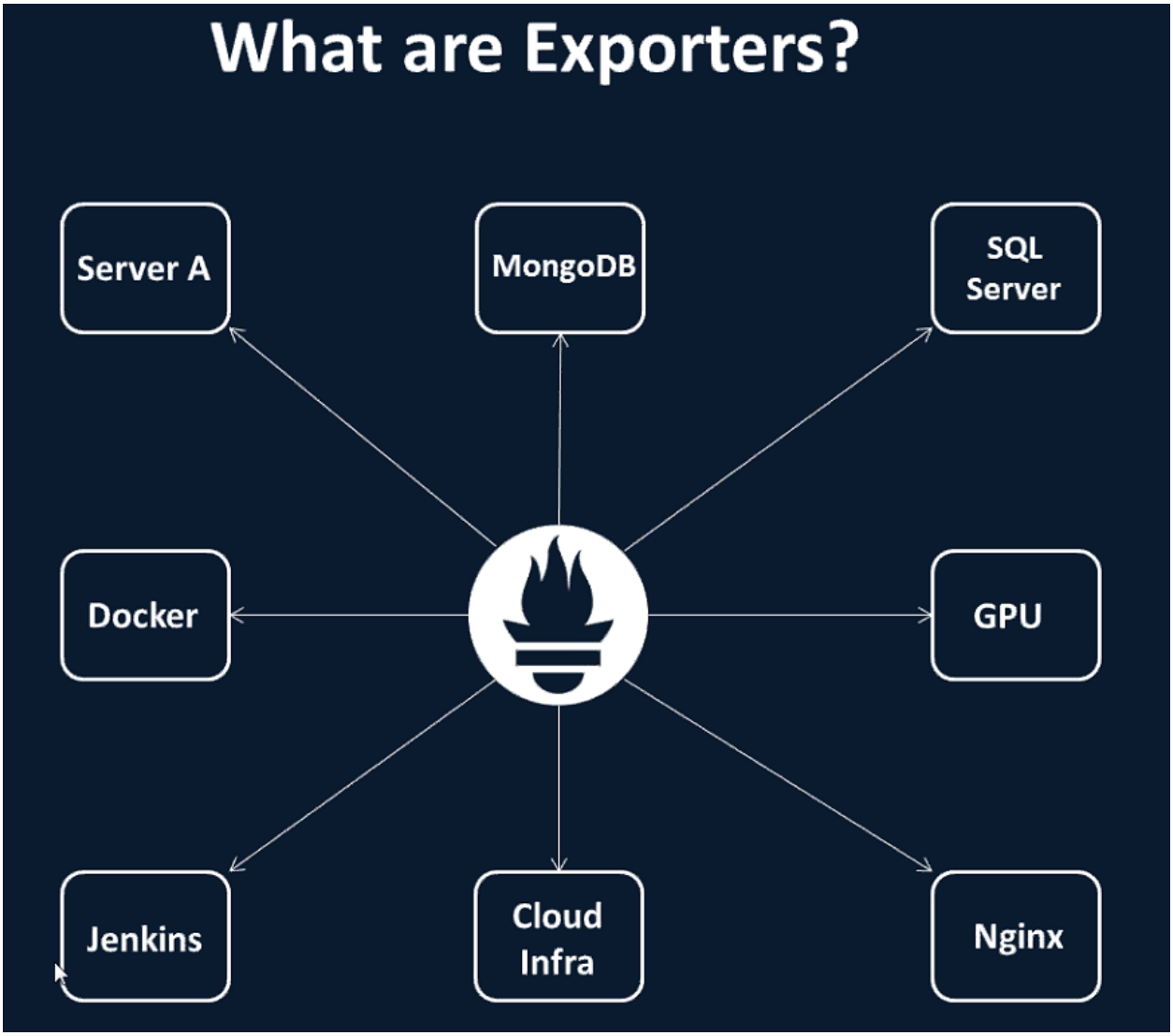


Execute the Prometheus.exe

Default port: 9090

It can be changed from prometheus.yml

Exporter does dedicated job for dedicated server



A application i.e. being monitored or required to be monitored is target

Wmi exporter:

wmi_exporter-0.4.3-386.msi

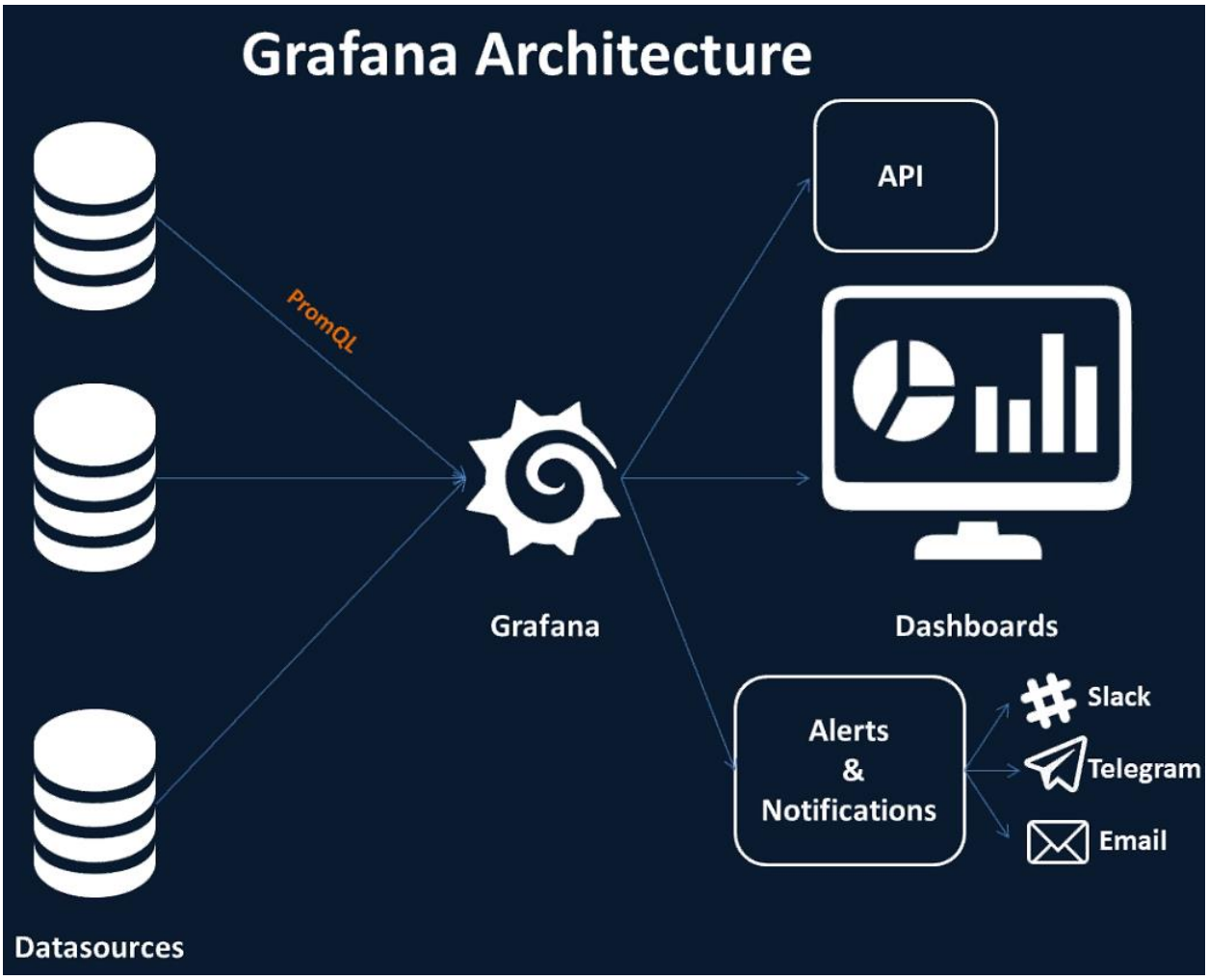
https://github.com/martinlindhe/wmi_exporter/releases/download/v0.4.3/wmi_exporter-0.4.3-386.msi

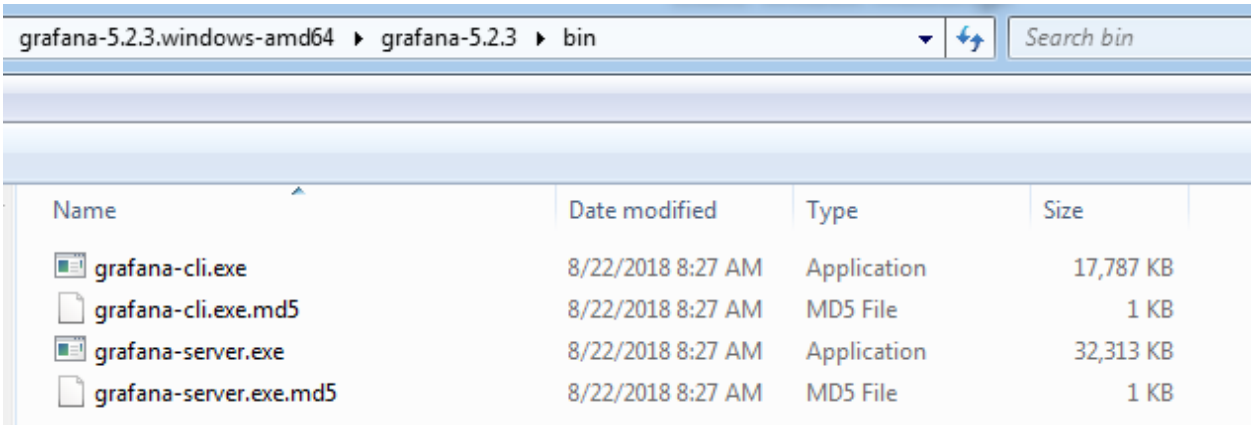
Default Port: 9182

Edit the Prometheus.yml file to configure exporter.

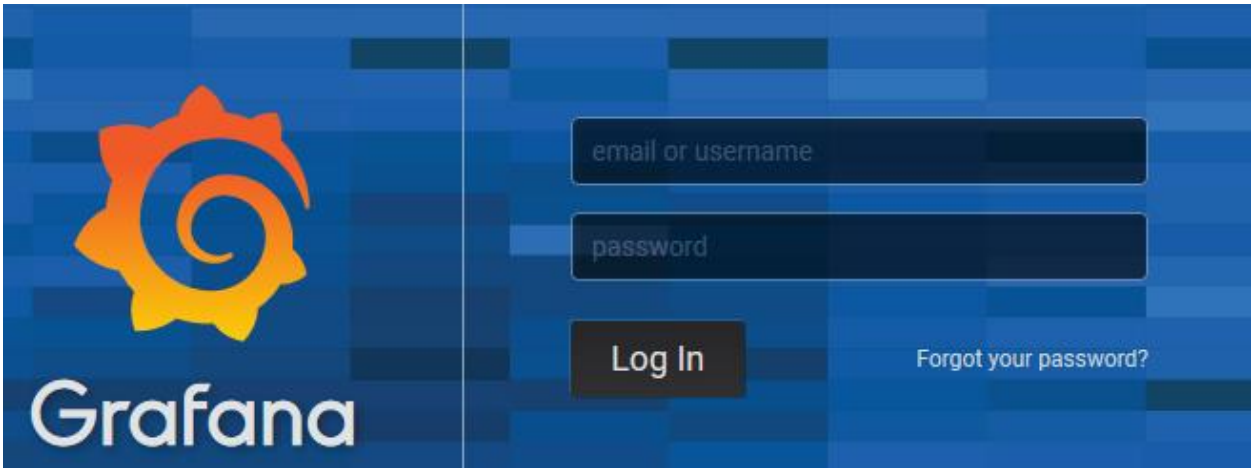
To configure the WMI exporter in prometheus

```
scrape_configs:
  # The job name is added as a label `job=<job_name>` t
  - job_name: 'prometheus'

    # metrics_path defaults to '/metrics'
    # scheme defaults to 'http'.

    static_configs:
    - targets: ['localhost:9090']
  - job_name: 'windowsNode'

    # metrics_path defaults to '/metrics'
    # scheme defaults to 'http'.

    static_configs:
    - targets: ['localhost:9182']
```



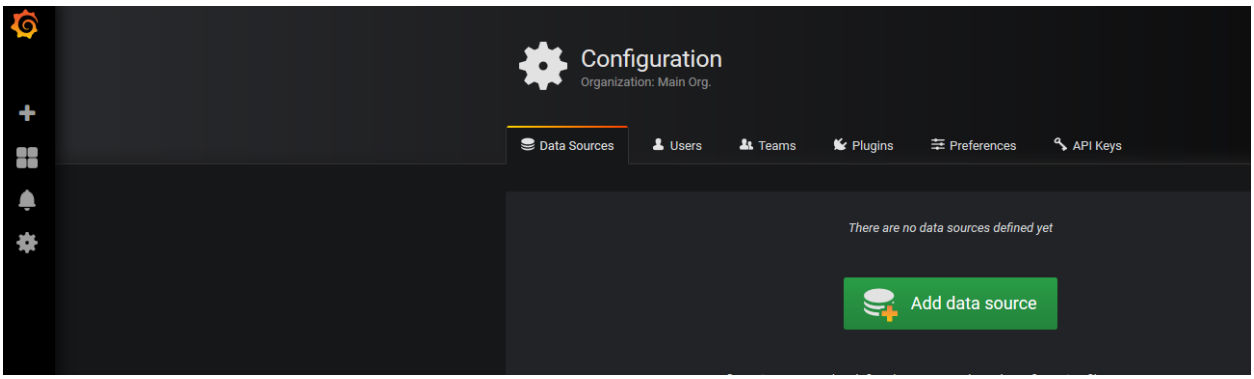


grafana-server.exe

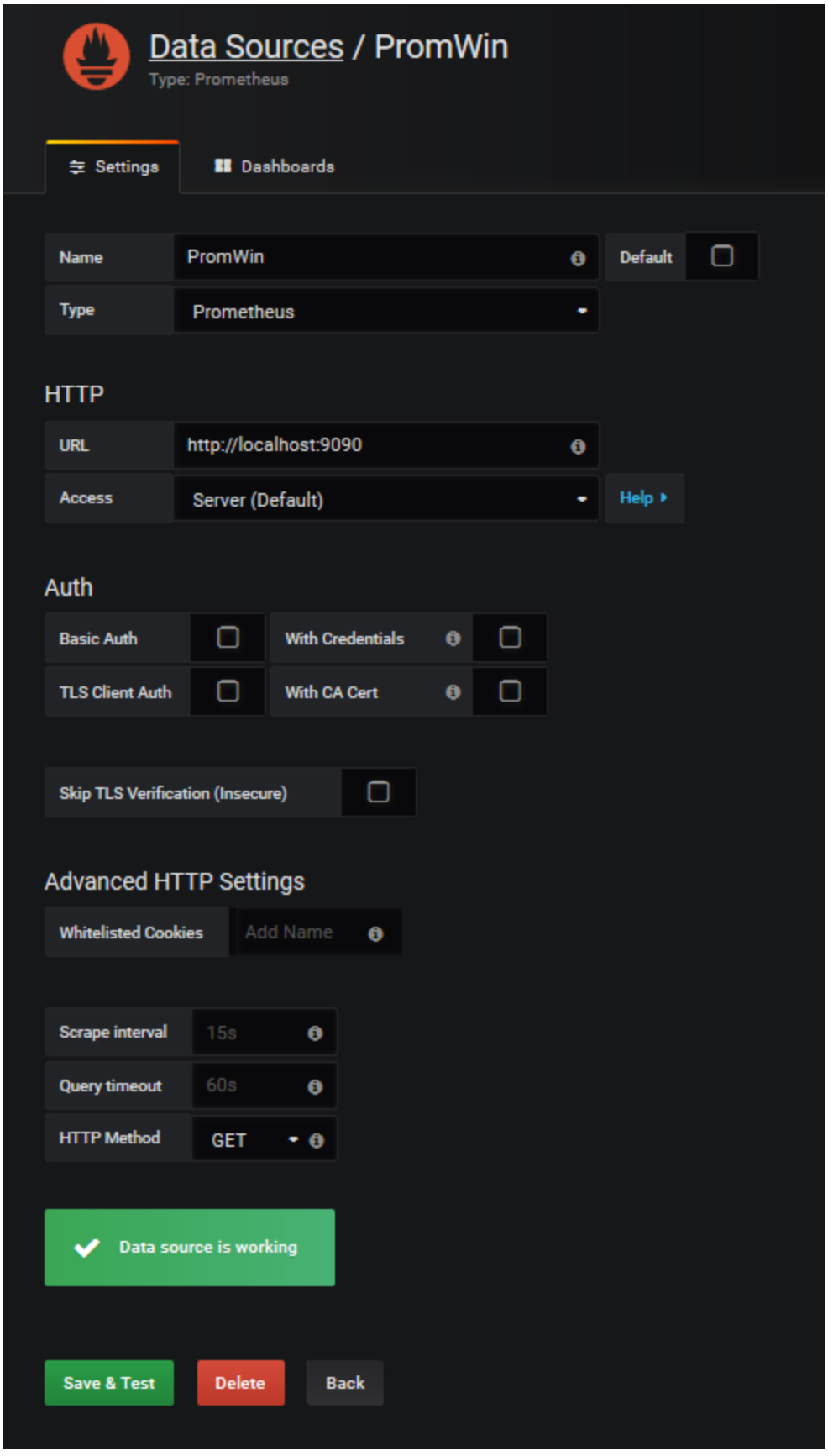


Default Credentials: admin/admin

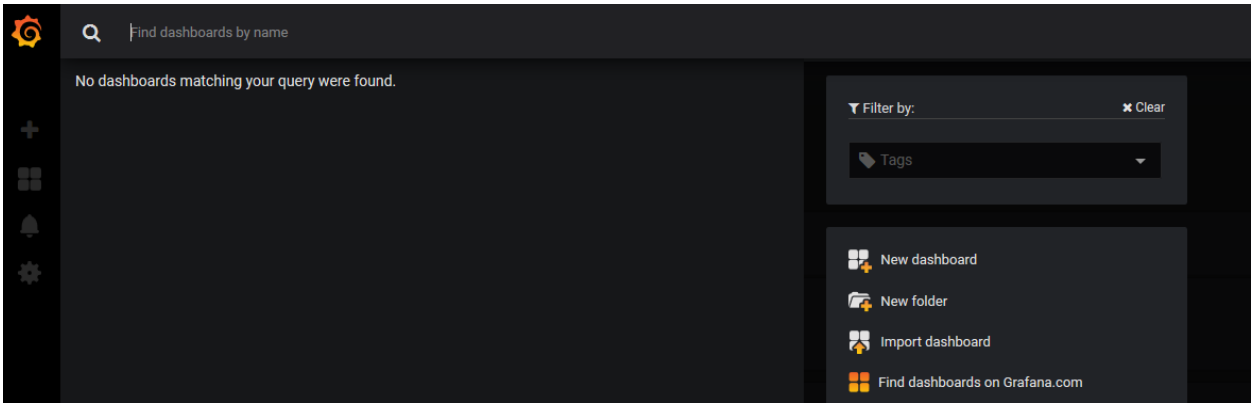
Go to Add

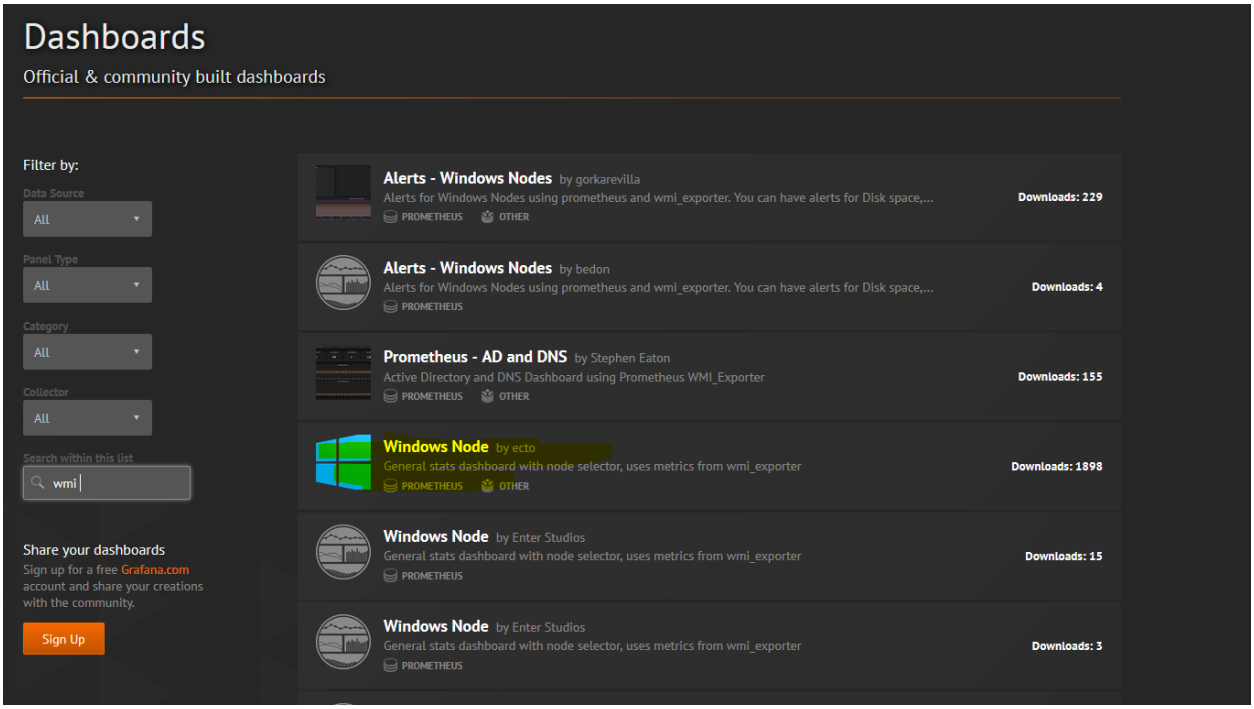


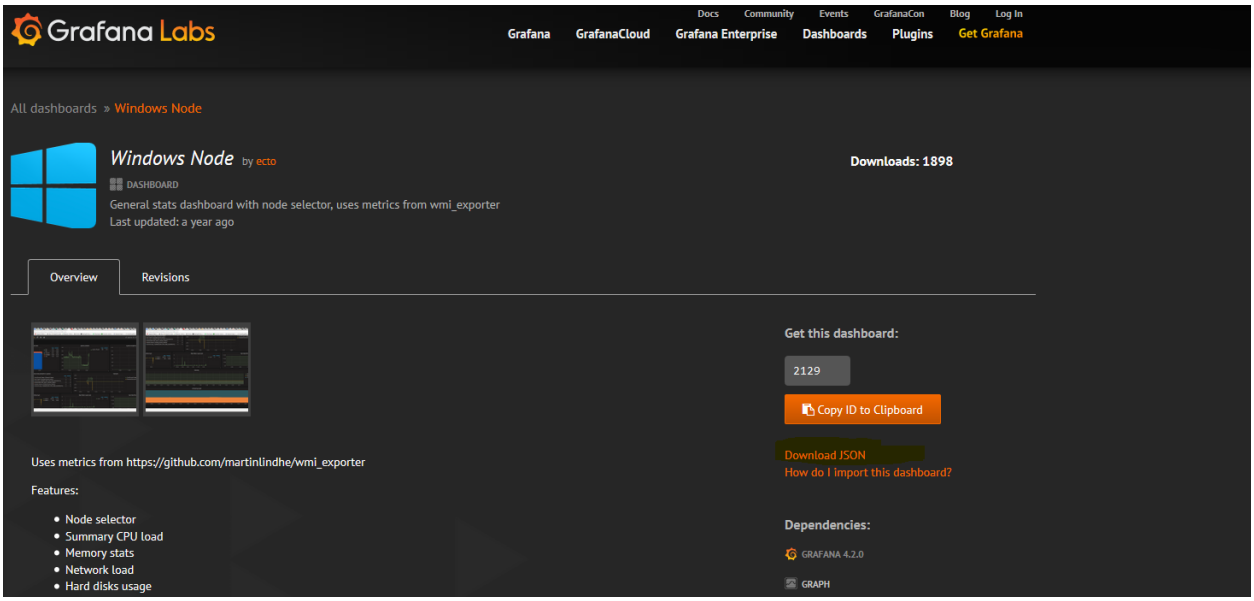
To connect Grafana with Prometheus


Data Sources / PromWin
Type: Prometheus
Settings
Dashboards
Name
PromWin
Default
Type
Prometheus
HTTP
URL
http://localhost:9090
Access
Server (Default)
Help
Auth
Basic Auth
With Credentials
TLS Client Auth
With CA Cert
Skip TLS Verification (Insecure)
Advanced HTTP Settings
Whitelisted Cookies
Add Name
Scrape interval
15s
Query timeout
60s
HTTP Method
GET
Data source is working
Save & Test
Delete
Back

To see data in Dashboard click Find Dashboard on Graphana.com

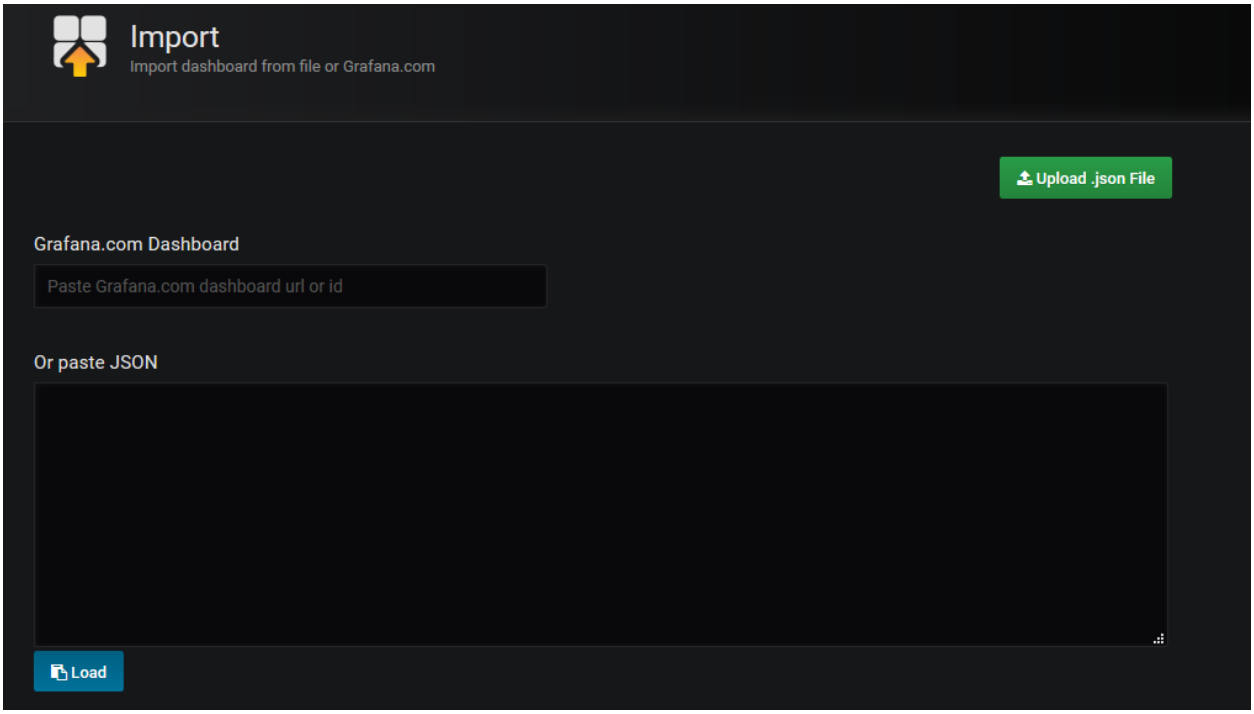


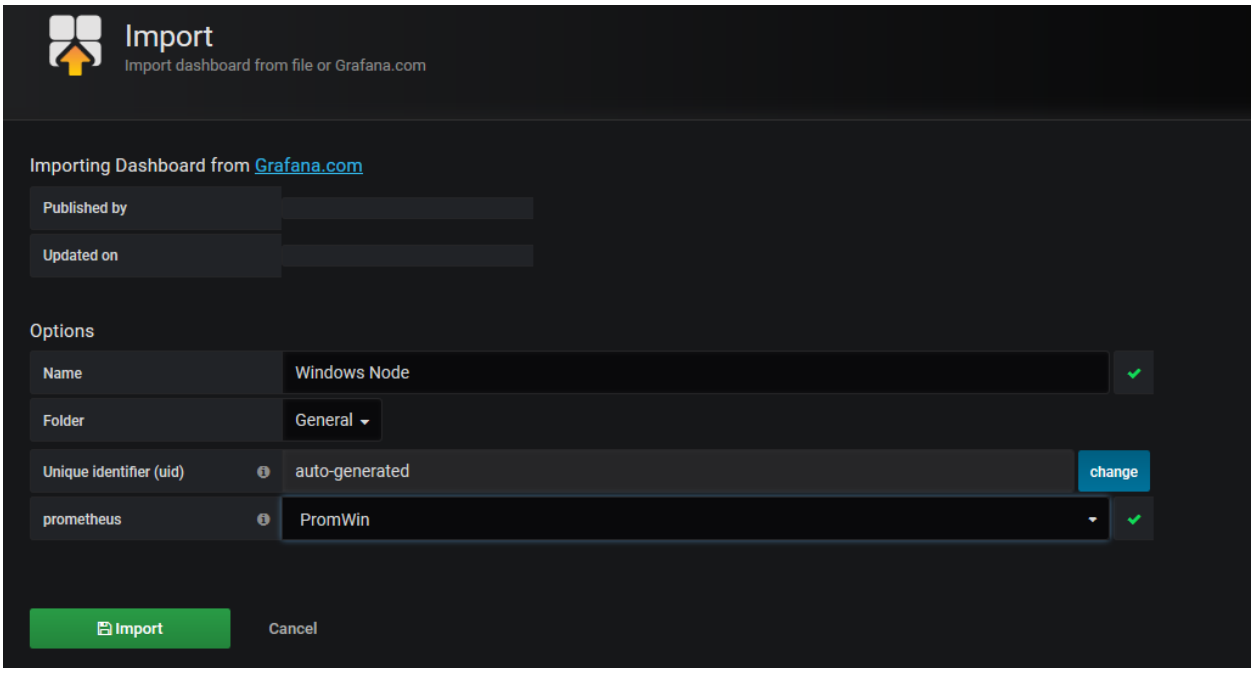




After downloading the json place it in the Grafana folder

To import the Dash board the home→ Import Dashboard




Import
Import dashboard from file or Grafana.com
Importing Dashboard from Grafana.com
Published by
Updated on
Options
Name
Windows Node
Folder
General
Unique identifier (uid)
auto-generated
change
prometheus
PromWin
Import
Cancel