

Federator.ai Release v4.5.1

Quick Start Guide

Federator.ai v4.5.1 Installation Quick Start Guide

Supported Platforms

- OpenShift: 3.11, 4.x
- Kubernetes (K8S): 1.11.x ~ 1.20
- Rancher v2.4.8
- Cloud Environment AKS/EKS/GKE

Data Source

- Datadog
- Sysdig
- Prometheus(Kubernetes, OpenShift)
- VMWare vCenter 5.5/6.0/6.5/6.7/7.0

Federator.ai Resource Requirements

- Total resource requirements for K8S/OpenShift:
 - Request : 5.1 CPU cores (Limit :22 cores)
 - Request : 5.0 GB Memory (Limit : 28GB)
 - StorageClass: 168GB (require ReadWriteOnce access mode)
- Resource requirements for AI Engine:
 - There must be at least one worker node with at least 2 CPU(Limit : 8 cores) cores and 1 GB of memory available
 - The 2 CPU cores and 1 GB memory are included in the total 5.1 CPU cores and 5.0 GB memory requirements

Before You Start:

Step 1: Obtain the credentials needed for connection to your metrics data source.

- For Datadog, the API Key and Application Key of your Datadog Cloud Service account are required. Refer to [Datadog documentation](#) for information about how to obtain they API Key and Application Key.
- For Prometheus (Kubernetes), obtain the Prometheus service URL (e.g., *http://<prometheus_svc_name>.<namespace>:9090*).

```
# Kubernetes Environment
$ kubectl get svc -n monitoring
```

- For Prometheus (OpenShift), obtain the Prometheus route URL and Token.

```
# OpenShift Environment
$ oc get route -n openshift-monitoring
$ oc get-token Prometheus-k8s -n openshift-monitoring
```

- For Sysdig, the Sysdig API URL and API Token are required. Refer to [Sysdig SaaS Regions and IP Range](#) and [Sysdig API Token](#) for information about how to obtain the Sysdig API URL and API Token.
- For VMware vCenter, obtain administrator login credential and vCenter IP or FQDN.

Step 2: Confirm that the metrics source agent is installed.

- For Prometheus, install Prometheus using helm charts. (OpenShift is enabled by default.)
- For Datadog, install and configure the Datadog Agent/Cluster Agent, if not previously installed. Refer to the Datadog documentation for information about how to install the Datadog Agent and Cluster Agent.
- For Sysdig, install and configure the Sysdig Agent. Refer to the Sysdig documentation for information about how to install the Sysdig Agent.

Installation Procedure for Kubernetes/OpenShift

Step 1: Install Federator.ai.

For an OpenShift environment, log in as admin.

```
$ oc login -u admin
$ curl https://raw.githubusercontent.com/containers-
ai/prophetstor/master/deploy/federatorai-launcher.sh | bash
% Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 17260  100 17260    0     0  20210      0 --:--:-- --:--:-- --:--:-- 20210
Please input Federator.ai version tag (e.g., v4.4.1):  v4.5.1-ga
...
...
=====
You can now access GUI through https://federatorai-dashboard-frontend-
federatorai.apps.172.31.xx.xx.nip.io The default login credential is admin/admin
...
```

Kubernetes:

```
$ curl https://raw.githubusercontent.com/containers-
ai/prophetstor/master/deploy/federatorai-launcher.sh | bash
% Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total     Spent    Left     Speed
100 17260  100 17260    0     0  20210      0 --:--:-- --:--:-- --:--:-- 20210
Please input Federator.ai version tag (e.g., v4.4.1):  v4.5.1-ga
...
...
=====
You can now access GUI through https://<YOUR IP>:31012 The default login
credential is admin/admin
...
```

Step 2: Log into the Federator.ai Web UI and follow the Setup Wizard to configure your external metrics data source.

Step 3: Review configuration results in the Federator.ai Web UI.

Refer to the [Federator.ai Installation Guide](#) for more details.