

Alation FDE Bot & Utility Manager



Data Stewards Best Ally

Alation believes that scaled comes from automating repetitive tasks and notifying stewards to take action only when something need to be done. Now stewards can have more time to spend on business-critical items and provide others with more curated data to accelerate and sustain their data initiatives.



Speed up time to value

Drive data decision-making sooner by identifying critical items that need definitions to improve understanding before use.



Enhance data governance

Reduce compliance risk by ensuring proper data classification is taking place to promote the proper use of data.



Lower stewardship cost

Minimize the stewardship resources needed while increasing quality curation time.

Create the environment to host ASM (Alation Services Manager)

ASM requires a server to run on. This server has the following hardware and network requirements.

Min System Specs

Ubuntu 20+

CPU - 4 or more cores 2.5-3.1 GHz

RAM - 16 GB

HDD - 100 GB

Network System Specs

Outbound:

- API access to your Alation instance (HTTPS)
- Access to your Alation Analytics database
 - For Cloud customers: [Access to Alation Analytics on Snowflake](#)
 - For On-prem customers: [Access to Alation Analytics on Postgres](#)

Inbound:

- Internal only http access on port 80 (no public access)

DNS:

- DNS entry to allow internal routing to this system

Install Docker and Docker Compose

Docker

<https://docs.docker.com/engine/install/>

<https://docs.docker.com/engine/install/ubuntu/>

Unset

```
# Add Docker's official GPG key:
sudo apt-get update
sudo apt-get install ca-certificates curl
sudo install -m 0755 -d /etc/apt/keyrings
```

```

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
/etc/apt/keyrings/docker.asc
sudo chmod a+r /etc/apt/keyrings/docker.asc

# Add the repository to Apt sources:
echo \
  "deb [arch=$(dpkg --print-architecture)
signed-by=/etc/apt/keyrings/docker.asc]
https://download.docker.com/linux/ubuntu \
  $(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
sudo apt-get update

# Install docker
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin
docker-compose-plugin

# Test that docker engine is working
sudo docker run hello-world

```

Install Portainer CE (Optional)

Having a Docker UI to work with can be very helpful. Portainer is a wonderful tool for managing Docker. This setup is entirely optional.

<https://docs.portainer.io/start/install-ce/server/docker/linux>

```

Unset
sudo docker volume create portainer_data

sudo docker run -d -p 8000:8000 -p 9443:9443 --name portainer --restart=always
-v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data
portainer/portainer-ce:latest

# Use the below command to avoid cert issue
docker run -d -p 8000:8000 -p 9000:9000 --name portainer --restart=always -v
/var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data
portainer/portainer-ce:latest

```

Setup folders on the new instance

```
Unset
sudo mkdir /opt/alation_fde
sudo mkdir /opt/alation_fde/asm
```

You will need to change the ownership of the **alation_fde** folder to the same user Docker is running as.

```
Unset
cd /opt
sudo chown -R <user_name_here>:docker alation_fde
sudo chown -R $USER:docker alation_fde
```

ASM Install Guide

Upload the installer zip file onto the newly created instance.

Example

```
Unset
scp -i your_pem_file_here.pem alation_bots.zip user@instance_location:~/.
```

Unzip the installer

```
Unset
# If you need to install unzip
sudo apt-get install zip
unzip alation_bots.zip -d alation_bots
```

Run the installer

Notice the `—h` flag in the installer. Please enter the fully qualified domain name you chose for your ASM system. **Do not add a trailing slash (/) to your URL.**

```
Unset
cd alation_bots
./installer.sh
./installer.sh -h <FQDN of the Alation Service Manager>

# you may need sudo
Ex. " ./installer.sh -h https://your\_name\_here.your\_domain.com"
```

Check Docker Images and Containers

Check that Docker images have been created (`alation_fde/*`).
(again, portainer is optional)

```
Unset
sudo docker image ls
```

```
ssh-user@ip-10-16-60-5:~/alation_bots$ sudo docker image ls
REPOSITORY                                TAG      IMAGE ID       CREATED        SIZE
alation_fde/alation_service_manager       latest   aa7e1b6cd6d7   25 hours ago   985MB
alation_fde/bot_engine                    latest   15d3f9a8f844   26 hours ago   860MB
alation_fde/nginx                         latest   48b92c302dd5   5 weeks ago    188MB
portainer/portainer-ce                   latest   a3f85c245ec3   3 months ago   293MB
alation_fde/redis                         latest   435993df2c8d   6 months ago   41MB
ssh-user@ip-10-16-60-5:~/alation_bots$
```

Check that Docker containers have been created.

```
Unset
sudo docker ps
```

```
ssh-user@ip-10-16-60-5:~/alation_bots$ sudo docker ps
CONTAINER ID   IMAGE                                NAMES      COMMAND                  CREATED        STATUS        PORTS
a125473a0946   alation_fde/nginx                   asm-nginx-1  "/docker-entrypoint..." About a minute ago Up About a minute 0.0.0.0:80->80/tcp, :::80->80/tcp
e68e5ccf00f4   alation_fde/alation_service_manager asm-celery-1  "/usr/src/app/entryp..." About a minute ago Up About a minute
db69c28e5dd6   alation_fde/alation_service_manager asm-web-1    "/usr/src/app/entryp..." About a minute ago Up About a minute 8080/tcp
1abd03f9aae6   alation_fde/redis                   asm-redis-1  "docker-entrypoint.s..." 2 minutes ago   Up About a minute 0.0.0.0:6379->6379/tcp, :::6379->6379/tcp
```

(Both of these checks can also be confirmed with Portainer if you have installed that option tool)

Test that ASM is running.

Open a web page in a browser using the URL you used during the ASM installation step above. The first time you log in, you must create a user.

Welcome



Email

Password



LOGIN

Don't have an account? [Sign Up](#)



User Registration

A

Email

First Name

Last Name

Password

Confirm Password

SIGN UP

Go to your login screen again, and you will no longer see the option to sign up. Please log into the system with the user you created.

Welcome



Email

bot_mgr@alation.com

Password

.....



LOGIN