Installing Anchore Enterprise with Docker Compose

Anchore Support

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Getting started

This document will detail the necessary requirements for installing Anchore Enteprise with Docker Compose.

Hardware requirements

The following details the minimum hardware requirements needed to run a single instance of all containers:

- 2 CPUs
- 8 GB RAM
- 50 GB disk space

Increased CPUs and RAM is recommend for better performance

Docker requirements

Anchore Enterprise is delivered as a Docker container, so a Docker comptabile runtime is a requirement.

Anchore Enterprise supports Docker runtime versions 1.12 or higher and Compose version 2.x.

Operating System requirements

- Ubuntu 16.04x or higher
- CentOS 7.3 or higher
- RHEL 7.3 or higher
- Amazon Linux 2

Software requirements

The Anchore Enterprise UI is a web application with an HTML interface. Accessing the user interface is done via a web browser.

- Chrome
- Firefox
- Safari

Network requirements

Anchore Enterprise Feeds exposes a RESTful API by default on port 8228, however this port can be remapped.

Anchore Enterprise Feeds require access to the upstream data feeds from the following supported distributions and package registries over port 443:

- linux.oracle.com (Oracle Linux Security Feed)

- github.com (Alpine Linux Security database)
- redhat.com (Red Hat Enterprise Linux security feed)
- security-tracker.debian.org (Debian security feed)
- salsa.debian.org (Debian security feed)
- replicate.npmjs.com (NPM Registry package data)
- s3-us-west-2.amazonaws.com (Ruby Gems data feed (stored in Amazon S3)
- static.nvd.nist.gov (NVD Database)
- launchpad.net/ubuntu-cve-tracker (Ubuntu data)
- data.anchore-enterprise.com (Snyk data)

Air-gapped installs will differ.

Database requirements

Anchore Enterprise uses PostgreSQL object-relation database to store data. Before beginning install, determine whether you will be using the PostgreSQL database container that is automatically install or an external PostgreSQL instance.

See configuring external DB instance for more info.

PostgreSQL versions

The PostgreSQL container that is automatically installed with Anchore Enterprise is postgres:9.

Anchore Enterprise supports PostgeSQL version 9 or higher

Installation

- Approved Dockerhub username is required to pull Anchore Enterprise images.
- A valid Anchore Enterprise license.yaml file.

Step 1: Create installation location

Create a directory to store the configuration files and license file.

```
mkdir ~/aevolume
```

Step 2: Copy configuration files

Download the latest Anchore Enterprise container image which contains the necessary docker-compose and configuration files needed. In order to download the image, you'll need to login to docker using the dockerhub account that you provided to Anchore when you requested your license.

Run the following commands to do so:

```
docker login
```

Enter username and password.

```
docker pull docker.io/anchore/enterprise:latest
```

Next, copy the included docker-compose.yaml file into the directory you created in step 1.

Via the following commands:

```
docker create --name ae docker.io/anchore/enterprise:latest

docker cp ae:/docker-compose.yaml ~/aevolume/docker-compose.yaml

docker rm ae
```

Next, copy the license.yaml file that provided into the directory you created in step 1.

Via the following command:

```
cp /path/to/your/license.yaml ~/aevolume/license.yaml
```

Once these steps are completed, your Anchore directory workspace should look like the following.

Check by running the following commands:

```
cd ~/aevolume
```

```
find .
.
./docker-compose.yaml
./license.yaml
```

Step 3: Download and run the containers

By default, all services (including a bundled DB instance) will be transient, and data will be lost if you shut down/restart.

Run the following commands within the directory created in step 1 to pull and run the containers:

```
docker-compose pull

docker-compose up -d
```

Step 4: Verify services are up