

# How to Docker setup on Single VM HEAT Deployment

This guide describes the HEAT installation of A&AI

## Prerequisites

The following software is needed in order to do HEAT installation of A&AI

- docker
- docker-compose
- bash

## Step-by-step guide

1. You would need to have root access to the vm

```
2. sudo su - root
```

3. Add/Update the /etc/hosts file to add the following entry:

```
127.0.0.1 aai.hbase.simpledemo.onap.org
```

```
4. cd /opt
```

```
5. git clone http://gerrit.onap.org/r/aai/test-config
```

```
6. cd test-config
```

7. In deploy\_vm1.sh comment out the lines 89-94 which should be an if statement checking for the /opt/message-router folder

8. Create a directory called /opt/config

```
a. mkdir /opt/config/
```

9. Create a file called /opt/config/nexus\_username.txt containing the text: docker

```
a. echo "docker" > /opt/config/nexus_username.txt
```

10. Create a file called /opt/config/nexus\_password.txt containing the text: docker

```
a. echo "docker" > /opt/config/nexus_password.txt
```

11. Create a file called /opt/config/dmaap\_topic.txt containing the text: AAI-EVENT

```
a. echo "AAI-EVENT" > /opt/config/dmaap_topic.txt
```

12. Create a file called /opt/config/nexus\_docker\_repo.txt containing text: nexus3.onap.org:10001

```
a. echo "nexus3.onap.org:10001" > /opt/config/nexus_docker_repo.txt
```

13. Create a file called /opt/config/docker\_version.txt containing text: 1.2-STAGING-latest

```
a. echo "1.2-STAGING-latest" > /opt/config/docker_version.txt
```

14. Please note that in the previous step, docker version is currently 1.2-STAGING-latest and this will be changed later

```
15. ./deploy_vm2.sh && ./deploy_vm1.sh
```

# Troubleshooting FAQ

## 1. Cassandra throwing seedy exceptions

If you encounter the following errors:

```
ERROR 13:31:16 Directory /var/lib/cassandra/data doesn't exist
```

```
ERROR 13:31:16 Directory /var/lib/cassandra/commitlog doesn't exist
```

```
ERROR 13:31:16 Directory /var/lib/cassandra/saved_caches doesn't exist
```

```
ERROR 13:31:48 Exception encountered during startup
```

**java.lang.RuntimeException: Unable to gossip with any seeds**

You can try to resolve the problem by commenting out the line "- CASSANDRA\_SEEDS=[aai.hbase.simpledemo.onap.org](https://aai.hbase.simpledemo.onap.org)" in the file "docker-compose-db.yml"

## 2. Containers are unable to connect to Cassandra DB

If any docker container is unable to connect to cassandra container, edit "docker-compose-db.yml", and remove the "network\_mode: host" config option from the cassandra docker config block, and repeat step 15

## 3. Disabling AAF authentication

If for any reason you want to disable AAF you can edit the following files aai-traversal/appconfig/application.properties and aai-resources/appconfig/application.properties and replace the following:

```
spring.profiles.active=production,aaf-auth,dmaap
```

with

```
spring.profiles.active=production,one-way-ssl,dmaap
```

## 4. Unable to resolve aaf-onap-test.osaaf.org

Either add a line

```
10.12.6.214    aaf-onap-test.osaaf.org
```

to /etc/hosts

OR

you can edit the files aai-resources/appconfig/aaf/org.osaaf.location.props aai-traversal/appconfig/aaf/org.osaaf.location.props and replace

```
aaf_locate_url=https://aaf-onap-test.osaaf.org:8095
```

with

```
aaf_locate_url=https://10.12.6.214:8095
```

Note: The current certificate allows only for a defined set of hostnames (like aaf-onap-test.osaaf.org) and **does not allow IPs**. The the AAF server (aaf-onap-test.osaaf.org) is currently located in the Windriver lab and the IP address is subject to change and might not be the current one in use at present. Alternatively use the property aaf\_locate\_url to point to your local AAF instance.



## Related articles

- [Committer Promotion Request for CCSDK - John Keeney - DRAFT](#)
- [NCMP De-registration Performance test guide](#)
- [Jeff van Dam - Committer Promotion Request for \[SDC\]](#)
- [Francisco Javier Parabela - Committer Promotion Request for \[SDC\]](#)
- [Committer Promotion Request for \[all DCAE\]: Shuting Qing](#)