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# **developer.skatelescope.org**

## **Documentation**

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## HOME

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Deploy Nexus OSS edition for the Central Artefact Repository on AWS.



## SUMMARY

This repo deploys Nexus OSS edition using an adapted version of <https://github.com/ansible-ThoTeam/nexus3-oss>. The changes are found in the `./resources` directory, and are used to overwrite the freshly checked out roles held in the `./collections` directory.

To use this repository:

```
$ git clone git@gitlab.com:ska-telescope/sdi/deploy-nexus.git
$ cd deploy-nexus
$ make reinstall # installs the necessary roles and collections in `./collections`
```

Edit the `ssh.config` and `./inventory_nexus` files appropriate to your target host. and then create a `./PrivateRules.mak` file containing the passwords for the Nexus user accounts `admin`, `gitlab`, `publisher` and `quarantiner`, as well as the webhook url and secret key as follows:

```
EXTRA_VARS = vault_nexus_admin_password='...' vault_nexus_user_password_gitlab='...'
↪ vault_nexus_user_password_publisher='...' vault_nexus_ldap_conn_passwd='...' vault_
↪ nexus_email_server_password='...' vault_nexus_user_password_quarantiner='...' nexus_
↪ webhook_url='...' nexus_webhook_secret_key='...'
```

Then build using:

```
$ make nexus
```





## **DEPLOYMENT**

The basic deployment consists of:

- a role (common) that sets basic host configuration
- the system-common-roles docker role that installs a standard Docker daemon footprint
- The modified Nexus role from <https://github.com/ansible-ThoTeam/nexus3-oss#example-playbook>

This sets up and deploys Nexus, which is then frontended with HAProxy running in a docker container. HAProxy does the URI and port mapping necessary to expose Nexus and the Docker repository.

The nexus3-oss role is patched by the files found in the `./resources` directory.



## PRODUCTION SITE

The production Nexus instance for the Central Artefact Repository is hosted at <https://artefact.skatelescope.org/>. This is integrated with SKAO LDAP based authentication for administration access - all other service accounts are maintained as local users.



## CONFIGURATION

The complete configuration for the deployment is contained in [nexus.yml](#).



## DEVELOPMENT

As this repo relies on a modified upstream version of <https://github.com/ansible-ThoTeam/nexus3-oss>, the differences are maintained as a patch file in the `./resources` directory. The patch can be maintained by checking out upstream with:

```
$ make update-patch
```

This creates the checked out code in `./nexus3-oss`, and applies the (uncommitted) current version of the patch. Edit the repository as required (without committing the changes), and regenerate the patch file with:

```
$ make make-patch
```

This will update the path in `./resources`. To activate these new changes, the `./collections` directory needs to be regenerated with:

```
$ make reinstall  
$ make patch
```





## MAKE HELP

Run make to get the help:

```
$ make
make targets:
Makefile:build_nexus      Install nexus
Makefile:help             show this help.
Makefile:install          Install dependent ansible collections
Makefile:lint             Lint check playbook
Makefile:reinstall        reinstall collections
Makefile:vars             List Variables

make vars (+defaults):
Makefile:COLLECTIONS_PATHS  ./collections
Makefile:COLLECTIONS_VERSION v2.4.14
Makefile:EXTRA_VARS         vault_nexus_admin_password='whatwhat' vault_nexus_user_
↪password_gitlab='whatwhat' vault_nexus_user_password_publisher='whatwhat'
Makefile:INVENTORY_FILE    ./inventory_nexus
Makefile:NODES              localhost
Makefile:PRIVATE_VARS      ./nexus_vars.yml
```