

Ansible Playbook - Setup Storm Cluster.

This is a simple Storm Cluster Setup. We are using a dedicated Zookeeper Cluster/Node, instead of the standalone zkserver. Below is how we will deploy our cluster.

```
                / ---- supervisor01
Nimbus[nimbus and ui]-----
                \ ---- supervisor02
```

Before we start.

Download [apache-storm-0.9.4.tar.gz](#) to file_archives directory.

Download [zookeeper-3.4.5-cdh5.1.2.tar.gz](#) to file_archives directory.

Download [jdk-7u75-linux-x64.tar.gz](#) to file_archives directory.

Get the script from Github.

Below is the command to clone.

```
ahmed@ahmed-server ~]$ git clone https://github.com/zubayr/ansible_storm_tarball
```

Step 1: Update Hosts File.

Update the host file to reflect your server IPs. Currently `hosts` file looks as below.

```
[zookeepernodes]
10.10.18.11 zookeeper_id=1
10.10.18.12 zookeeper_id=2
10.10.18.13 zookeeper_id=3

#
# storm cluster
#

[stormnimbusnodes]
10.10.18.11

[stormsupervisornodes]
10.10.18.12
10.10.18.13

[stormcluster:children]
stormnimbusnodes
stormsupervisornodes
```

Step 2: Update group_vars information as required.

Update users/password and Directory information in group_vars/all file. Currently we have the below information.

```
# -----
# USERS
# -----

# password below for all the users is `hdadmin@123`
zookeeper_user: zkadmin
zookeeper_group: zkadmin
zookeeper_password: <encrypted_password_here>

storm_user: stormadmin
storm_group: stormadmin
storm_password: <encrypted_password_here>

# -----
# STORM Variables
# -----

storm_local_dir: /data/ansible/storm
storm_log_dir: /data/ansible/storm_logging

# -----
# COMMON FOR INSTALL PATH
# -----

# Common Location information.
common:
  install_base_path: /usr/local
  soft_link_base_path: /opt
```

Password can be generated using the below python snippet.

```
# Password Generated using python command below.
python -c "from passlib.hash import sha512_crypt; \
          import getpass; print sha512_crypt.encrypt(getpass.getpass())"
```

Here is the execution. After entering the password you will get the encrypted password which can be used in the user creation.

```
ahmed@ahmed-server ~]$ python -c "from passlib.hash \
          import sha512_crypt; import getpass; \
          print sha512_crypt.encrypt(getpass.getpass())"
Enter Password: *****
$6$rounds=40000$/VINUa2uPsmGK/2xnm0t80TjDwbof9rNvnYY6icCkdAR2qrFquirBtT1
ahmed@ahmed-server ~]$
```

Step 3: Update default information in roles/<install_role>/default/main.yml.

Update the default values if required.

Step 4: Executing.

Below is the command.

```
ahmed@ahmed-server ansible_kafka_tarball]$ ansible-playbook ansible_storm.yml -i hosts --ask-pass
```