

packages ctrl ansible

```
apt update
apt dist-upgrade
reboot
apt install build-essential git chrony openssh-server python3-dev sudo
```

Setup openstack ansible

Scaricare e installare l'ambiente:

```
git clone -b master https://opendev.org/openstack/openstack-ansible
/opt/openstack-ansible
/opt/openstack-ansible/scripts/bootstrap-ansible.sh
```

HOSTS

Controllare /etc/hosts: non deve essere presente la entry 127.0.1.1, perché può generare problemi di risoluzione nomi. Lasciare invece 127.0.0.1

```
apt update
apt dist-upgrade
apt install bridge-utils debootstrap openssh-server \
    tcpdump vlan python3
apt install linux-modules-extra-$(uname -r)
reboot
```

Ansible

```
cp -dpR /opt/openstack-ansible/etc/openstack_deploy/* /etc/openstack_deploy
cp /etc/openstack_deploy/openstack_user_config.yml.example
/etc/openstack_deploy/openstack_user_config.yml
```

Lavorare sui files:

- `openstackuserconfig.yml`: questo è un inventory in cui si dichiarano tutte le parti fisiche e logiche coinvolte nel cluster (reti, host, gruppi, ruoli openstack es storage)
- `uservariables.yml`: *variabili di configurazione* * `usersecrets.yml`: credenziali e password. Non va toccato a mano

= generare i secrets ==

```
cp -a /etc/openstack_deploy/user_secrets.yml
/etc/openstack_deploy/user_secrets.yml.backup
/opt/openstack-ansible/scripts/pw-token-gen.py --file
```

```
/etc/openstack_deploy/user_secrets.yml
```

Creare l'inventary

```
source /opt/ansible-runtime/bin/activate
openstack-ansible-inventory --config /etc/openstack_deploy/
cat /etc/openstack_deploy/openstack_inventory.json
```

Chiave ssh

Per impostare la chiave ssh di default configurare /opt/openstack-ansible/ansible.cfg

```
[defaults]
private_key_file = ~/.ssh/id_ansible
```

Prima si usare ansible, eseguire

```
eval "$(ssh-agent -s)" && ssh-add ~/.ssh/id_ansible
```

Playbooks

- Preparazione degli hosts: `openstack.osa.setuphosts` - *Installazione servizi non openstack: `openstack.osa.setupinfrastructure`*
- Installazione servizi openstack: `openstack.osa.setup_openstack`

Prima di eseguire un playbook, si può controllare la presenza di errori:

```
openstack-ansible $PLAYBOOK --syntax-check
```

Installazione

```
# openstack-ansible openstack.osa.setup_hosts
# openstack-ansible openstack.osa.setup_infrastructure
```

Verifica cluster mariadb (dopo il playbook `openstack.osa.setup_infrastructure`):

```
cd /opt/openstack-ansible
source /usr/local/bin/openstack-ansible.rc
ansible galera_container -m shell -a "mariadb -h localhost -e 'show status
like \"%srep_cluster_%\";'"
```

playbook deploy openstack

openstack-ansible openstack.osa.setup_openstack

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