Build Process Doc

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# OpenStack Build Process

## Build infrastructure details

* OpenStack Setup details:

Description: Ubuntu Kilo Setup

Env: OVH-1

Landing VM: 158.69.168.244

Username: TRILIO-OVH-DEMO\Administrator

Password: 1N7F0KaGQw

OpenStack Dashboard: <http://192.168.1.44/horizon>

OpenStack Credentials: admin/password

* On Controller node 192.168.1.244 we have scripts at /etc/ansible/roles/openstack-build-automation/

## Build scripts repo details

* We have committed all build scripts to “[automation](https://github.com/trilioData/automation)” repository on Github.
* This repository has no branch, we use only “master” stream.
* You can clone these scripts if you want using following command

git clone https://github.com/trilioData/automation.git

## Steps to create new build

* Login to machine 192.168.1.244 (root/Password1!)
* Navigate to ansible scripts directory

cd /etc/ansible/roles/openstack-build-automation

* Edit build.properties, openstack-auth.sh files, use correct settings
* Download latest tvault build from google drive and copy it at /opt/tvault-appliance-os.qcow2
* Execute build script

./buildTVault.sh

* This script will do following steps

--Deploy old tvault build (from /opt/tvault-appliance-os.qcow2)

--Update code repositories

--Clean everything

--Shut down tvault VM, take snapshot of it

--Create qcow2 image from that snapshot

--Compress it

* New build will be available in build/ directory
* You can upload this build to google drive under a shared folder named “tvault-appliance-builds” after validation step.

## Validating build

* We have scripts written for validation
* After creating new build using steps defined in “section 3”, you can execute “setTestBest.sh” script as follows

./validate-build.sh

* This script will perform following steps

--Deploy latest build available in build/ directory

--Configure it

--Install tvault-contego

--Install horizon plugin

--You can find logs in validate-build.log file

## Debug build/validation failures

* If ./buildTVault.sh scripts fails, main reasons could be

--Old build deployment fails, in that case you should take command to deploy old build

From buildTVault.sh script and try redeploying

--Update repos failed, this typically happens when you change “branch” variable in build.properties for first time. This is ansible issue. You need to deploy tvault and then change branch of repo(git checkout <new branch>) and then execute remaining script

--Snapshot failed/image create failed, you can debug this by using respective commands, this could be related to openstack setup

* If ./validate-build.sh fails,

--Check validate-build.log file, you will get an idea of what exact step has failed

--If build deployment fails, retry same separately using same command

--If build configuration fails, try master-install.sh –config and observe errors, also you can see root cause on tvault-appliance machine at /var/log/upstart/tvault-config.log

--If tvault contego installation step fails, try ./master-install.sh –contego

--If horizon plugin installation fails try ./master-install.sh –horizon separately

# VMware Build Process