

Installing OpenVZ, Dependencies and Running OVPL to deploy a lab

travula

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1 OVPL Installation

1.1 Set up proxy

- Replace the <value> in the below commands with the values provided by your network admin to set the proxies.

```
export http_proxy="<value>"
export https_proxy="<value>"
```

1.2 Cloning

- Clone the LIK repository by running the command below.

```
git clone https://github.com/Virtual-Labs/lab-integration-kit-v0.5.git
```

1.3 Installing OpenVZ

- In the ovpl-kit/scripts directory, “openvz-install.sh” installs OpenVZ on Your CentOS.
- You have to run this script by the command below from ovpl-kit/scripts directory.

```
sudo sh openvz-install.sh
```

1.4 Installing OVPL Dependencies

- In the ovpl-kit/scripts/dependencies directory, “dependencies.sh” installs all the dependencies required for running OVPL.
- You have to run this script by the command below from ovpl-kit/scripts/dependencies directory.

```
sudo sh dependencies.sh
```

1.5 Installing OVPL

- OVPL source code is present in ovpl-kit/ovpl directory.

Pre-requisites

- Change the values of proxies in ovpl-kit/ovpl/config/config.json
- Change the SUBNET values in ovpl-kit/ovpl/src/settings.py and ovpl-kit/ovpl/src/adapters/settings.py to match the subnet of your base machine.
- Now go to ovpl-kit/ovpl/src/ and run make.

```
make
```

This will run both the controller server and adapter server. Check this by running

```
ps -eaf | grep python2
```

1.6 Deploying the Lab

- Go to browser and type, “127.0.0.1:8080”, you will see a test page.
- Enter lab id and URL and submit it.
- You can see the deployment status of the lab in the terminal. The IP address of the container is prompted in the terminal where the lab is being deployed.
- Lab can be hence used from the given IP.
- Check the logs at `/root/log/ovpl.log` and `/ovpl/root/centosvzadapter.log` on the base machine.
- Check the logs on the container at `/root/VMManager/log/vmmanager.log`