IT tooling

Upgrade

Yocto

The update of the yocto version of SEAPATH uses software update. The update process is described on the Ansible repository.

Debian

The apt package tool is used to upgrade the system. You can use the rollback to avoid loss the system (more details in the below section).

Update the database of available packages, with their version:

```
apt update
```

Upgrade the system with the new version of packages:

```
apt upgrade --yes
```

Upgrade the system with new version of Debian and remove useless packages:

```
apt dist-upgrade --yes
apt autoremove --yes --purge
```

Rollback

As mentioned here, the root partition is in LVM disk. With this configuration, it can be save by a LVM snapshot.

```
lvcreate -L SIZE -s -n SNAPSHOT_NAME /dev/VOLUME_GROUP/DISK_NAME
```

With snapshots, the partition can be rollback in the stable state with this command:

```
lvconvert --merge /dev/VOLUME_GROUP/SNAPSHOT_NAME
```

Otherwise, the snapshot can be remove with these commands:

```
lvremove /dev/VOLUME_GROUP/SNAPSHOT_NAME
```

More details here.

Troubleshooting

Can't create a snapshot with old name

If you don't reboot the machine, the `lvcreate` command believes the name is always used. To remove it, you need to launch this command:

```
vgchange --refresh
```

Supervision

The SNMP protocol is used to supervise machines. It's a protocol to watch the state of machines on a network.

VM Backups

Node replacement

python3-setup-ovs

At each boot, the host must build the configuration for OpenVSwitch. During the network playbook (`cluster_setup_network.yaml`) with `ovs_bridges` and `ignored_bridges` variables, a middle configuration is produced. This configuration is used by this tool to build the OpenVSwitch configuration.