Prepare Staging Server

The staging server may be a physical server, a virtual machine, or even a laptop. The staging server must be connected to the target VMware vSphere Infrastructure, vCenter Server, and cluster nodes with correct credentials.

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Prerequisites

The staging server requires the following software:

- docker 18.09.7 or later
- python 3.6 or later

Unpack Cisco Smart PHY Application Package

The Cisco Smart PHY software image is a compressed tarball file that is self-sufficient for installing the Deployer, Cisco Operations Hub cluster, and Cisco Smart PHY application. It contains the following files:

- Installation script
- All relevant product images
- Sample configuration files
- README file

Before you begin

Make sure that you have a minimum of 50 G disk space to extract the image.

Step 1 Unpack the signed TAR software image of the Cisco Smart PHY application:

```
smartphy-installer-<version>.SSA.tgz
```

The file is approximately 10 G.

After downloading the image, extract all individual files, and verify the signature of the files using the following steps.

Step 2 Run the following command to extract the TAR file: `tar -zxovf smartphy-installer-<version>.SSA.tgz`

This command extracts the following files:

- `cs-verify.sh`
- `SMART_PHY_REL_KEY-CCO_RELEASE.cer`
- `image.tgz`
- `image.tgz.signature`
- `signed_files`

Step 3 Run the following command to extract all individual files of the cluster, Operations Hub, and Cisco Smart PHY:

```
tar -zxovf smartphy-installer-<version>.tgz
```

Example:

The `smartphy-installer-<version>.SSA.tgz` file is extracted to the `smartphy-installer-<version>` directory.

Step 4 Change the directory to `smartphy-installer-<version>` directory.

```
cd smartphy-installer-<version>
```

The new staging directory `smartphy-installer-<version>` has the following content:

```
$ tree -a
.
├── README.md
├── cluster-deployer-<version>.tar
├── cluster-deployer-<version>.tar.signature
├── deploy
├── deploy.signature
├── docker-images
│   ├── ccmts-customization_<version>.tar
│   └── ccmts-customization_<version>.tar.signature
├── examples
│   ├── aio-smartphy-config.yaml
│   ├── aio-smartphy-standby-config.yaml
│   ├── deployer-sample-config.yaml
│   ├── multinode-smartphy-config.yaml
│   └── multinode-smartphy-standby-config.yaml
├── offline-products
│   ├── cee-<versioin>.tar
│   ├── cee-<versioin>.tar.signature
│   ├── opshub.tar
│   ├── opshub.tar.signature
│   ├── smartphy-<version>.tar.signature
│   └── smartphy-<version>.tar
├── smi-install-disk.iso
├── smi-install-disk.iso.signature
├── upgrade-prep
├── upgrade-prep.signature
└── utility-images
    ├── autodeploy_<version>.tar
    ├── autodeploy_<version>.tar.signature
    ├── cluster-manager-docker-deployer_<version>.tar
    └── cluster-manager-docker-deployer_<version>.tar.signature
```

This directory is referred to as the staging directory in this document.

Step 5 Run the `cs-verify.sh` script.

Example:

```
./cs-verify.sh SMART_PHY_REL_KEY-CCO_RELEASE.cer smartphy-installer-<version>.tgz
```

The following messages appear:

```
Verifying signature

Signature verification succeeded
```

If the signature verification fails, error messages appear on the screen. If error messages appear, download the software package once again.