

Local Testing



Obsolete Note

We are in the process of moving this xApp writing guide to <https://docs.o-ran-sc.org>.

Please refer to [App Writing Guide](#) for latest guide.

To test onboard an xApp, you can utilize either the CLI tool or the REST APIs of xapp onboarder.

The CLI tool will return errors that can help you pinpoint problems in your xApp descriptor.

Prerequisites

- a host with docker installed
- a local helm repo

Create a local helm repo

You can create a local helm repo by running the following command

```
docker run -d -p 8080:8080 -e DEBUG=1 -e STORAGE=local -e STORAGE_LOCAL_ROOTDIR="/charts" chartmuseum
/chartmuseum:latest
```

Test on-boarding using xapp-onboarder CLI tools

1. Find out the ingress IP for your RIC instance. If you deploy RIC using it/dep deployment script, it should be your host(VM)'s IP.
2. Install xapp-onboarder CLI

```
git clone "https://gerrit.o-ran-sc.org/r/it/dev"
cd dev/xapp_onboarder
pip3 install ./
```

3. Set up the environment variables for CLI connection

```
export CHART_REPO_URL="http://0.0.0.0:8080"

# It should return True if your CLI tool is properly connected to the RIC instance
cli health
```

4. Onboard your xApp. Please refer to [xApp descriptor](#) for preparing for the xApp descriptor

```
# Make sure that you have the xapp descriptor config file and the schema file at your local file system
cli onboard CONFIG_FILE_PATH SHCEMA_FILE_PATH
```

If onboarding fails, the cli will return you messages that indicate where the errors are in the descriptor.

5. (OPTIONAL) Download the xApp helm charts

```
cli download_helm_chart XAPP_CHART_NAME VERSION --output_path=OUTPUT_PATH
```

6. (OPTIONAL) Download the xApp override values.yaml file

```
cli download_values_yaml XAPP_CHART_NAME VERSION --output_path=OUTPUT_PATH
```