

Installation notes:

AWS Palace installation using Apptainer

[Build using Singularity/Apptainer](#)

Palace can be built in a [Singularity/Apptainer](#) container for HPC environments supporting the Singularity/Apptainer container system. To build the container using the provided definition file in the [singularity/](#) directory, first [set up Singularity/Apptainer on your system](#) and subsequently run:

```
singularity build palace.sif <SOURCE_DIR>/singularity/singularity.def
```

where the repository source code has been cloned to <SOURCE_DIR>. For more information about Singularity/Apptainer, see the [Quick Start](#) guide in the Singularity/Apptainer documentation.

Install Apptainer (previously called Singularity)

```
$ sudo apt update
$ sudo apt install -y wget
$ cd /tmp
$ wget https://github.com/apptainer/apptainer/releases/download/v1.4.0/apptainer_1.4.0_amd64.deb
$ sudo apt install -y ./apptainer_1.4.0_amd64.deb
```

Apptainer is now ready for use from the commandline, using command apptainer or singularity, both commands are identical.

Build palace.sif

Get source files

```
mkdir /home/volker/github
cd /home/volker/github
git clone https://github.com/aws-labs/palace.git
```

This places the Palace source in /home/volker/github/palace

Build using Singularity/Apptainer

```
cd /home/volker
singularity build palace.sif /home/volker/github/palace/singularity/singularity.def
```

This creates container palace.sif in /home/volker

Run Palace

If we have palace.sif installed in /home/volker:

```
cd /home/volker
apptainer shell palace.sif
```

The prompt changes to Apptainer> and we can run palace from there, with the *.json model name as the only parameter. All the normal file system can be accessed from within apptainer.

A terminal window with a dark background and light green text. The prompt is 'Apptainer>'. The user enters 'pwd' and the output is '/home/volker'. Then the user enters 'palace "/>

Exit from apptainer: use command "exit"