

# Linear Dafny Playground Guide

1. Install [Docker](#) on a Linux machine
2. Clone the [artifact repo](#), cd into it, and check out the playground branch

```
git clone https://github.com/jialin-li/linear-veribetrkv-artifact.git
cd linear-veribetrkv-artifact
git checkout linear-playground
```
3. Get the artifact docker image
  - Option 1: Pull from dockerhub and rename the image

```
docker pull lsixseven/linear-playground
docker tag lsixseven/linear-playground linear-playground
```
  - Option 2: Build the image locally

```
docker build -t linear-playground .
```
4. Start playing around! You can run the container interactively using

```
docker run -it linear-playground
```

or attach a local directory for your linear dafny files, make sure to use absolute path in all the commands

```
docker run -it -v /tmp/test:/home/veribetrkv-linear/test linear-playground
```

To verify a dafny file using linear dafny, run the following command inside the container

```
tools/local-dafny.sh <filepath> /compile:0 /trace
```

To start off, try verify some files under the Impl directory :)