

Secure Programming Lab: SEED Labs VM Setup in AT 6.06

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Setting the storage location

We will use Virtual Box on DICE to run the SEED Labs Virtual Machine. First, make a directory on the workstation's local drive for Virtual Box to use (for performance and space reasons):

```
mkdir /disk/scratch/SEED/tmp/sXXXXXXXX
```

where `sXXXXXXXX` is your student number. Then start Virtual Box and set the VM storage location to this directory:

File -> Preferences -> General -> Default Machine Folder -> `/disk/scratch/SEED/tmp/sXXXXXXXX`

Creating SEED VM with existing virtual disk file

The VM image has been downloaded for you. In Virtual Box do:

New -> Type in a name (e.g., "SEED") -> Choose **Linux** for Type -> Choose **Ubuntu (64-bit)** for Version -> Click Next

Keep the default settings, Click Next.

Choose **Use an existing virtual hard disk file** -> Click the browse button -> Click Add -> Find the file: `/disk/scratch/SEED/SEED-Ubuntu-20.04-64bit.vdi`

Select this file and Click **Choose** -> **Create**.

Set the virtual drive to immutable

The drive file is owned by root so you can't change it.

File -> Virtual Media Manager -> Properties -> Hard disks

Choose **SEED-Ubuntu-20.04-64it.vdi** you just imported -> Attributes

(If Attributes does not appear, double click the virtual disk)

Attributes -> Type -> Choose **Immutable** for type -> Apply -> Release

Then close the dialogue box.

Configure the VM for usability and performance

Follow the SEED Lab VM manual from **Step 5**. The advice to take a snapshot after starting is useful.

Important note: the `/disk/scratch/SEED/` directory is local to workshop you are sitting in front of and there is no guarantee the temporary space will be retained between labs. Please keep a copy of any files you want in your own home directory on the host DICE machine.

Now you are ready to start the VM and begin the lab exercises. SEED login password is: dees