

# Instructions (setup)

## VM

### Ubuntu 20.04 VM (for Intel/AMD Machines)

If you prefer to create a SEED VM on your local computers, there are two ways to do that: (1) use a pre-built SEED VM; (2) create a SEED VM from scratch.

**Approach 1: Use a pre-built SEED VM.** We provide a pre-built SEED Ubuntu 20.04 VirtualBox image (SEED-Ubuntu20.04.zip, size: 4.0 GB), which can be downloaded from the following links.

- [SEED Ubuntu-20.04 VM](#)
- [VM Manual](#): follow this manual to install the VM on your computer



	<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
	<a href="#">Parent Directory</a>		-	
	<a href="#">Lab1-Image-kali2021.7z</a>	2024-09-09 15:44	2.2G	
	<a href="#">Lab1-Image-kali2024.zip</a>	2024-09-09 23:33	5.5G	
	<a href="#">Lab2-BufferOverflow...&gt;</a>	2024-09-14 18:15	4.2G	
	<a href="#">SEED-Ubuntu20.04-new..&gt;</a>	2024-09-22 17:28	4.1G	
	<a href="#">download-lab2-from-here</a>	2024-09-14 16:36	202	

**Approach 2: Build a SEED VM from scratch.** The procedure to build the SEED VM used in Approach 1 is fully documented, and the code is open source. If you want to build your own SEED Ubuntu VM from scratch, you can use the following manual.

- [How to build a SEED VM from scratch](#)

### Ubuntu 20.04 VM (for Apple Silicon Machines)

Students with Apple Silicon machines (M1/M2 chips) have not been able to run our pre-built SEEDUbuntu 20.04 VM, due to the lack of support from VirtualBox. They can now set up a SEED VM using VMWare Fusion Player (free version):

- [Lab Environment Setup for Apple Silicon Machines](#). We could not find the ARM version of Ubuntu 20.04, so we will install Ubuntu 22.04 instead. The differences between these two versions are quite small.
- Notes: Most SEED labs can now be conducted on this VM. To check which labs are supported, please see our [testing results](#). Porting SEED labs to ARM is still ongoing.

# Files

- **Lab setup files**
  - [Labsetup.zip](#)
  - [Labsetup-arm.zip](#) (for Apple Silicon machines)
- **Manual::** [Docker manual](#)
- **Docker image:** hands-on-security/seed-ubuntu:small

	seed-ubuntu.tar	临时	刚刚	9天后到...	105MB	助教 ...	2次	
	Labsetup.zip		刚刚	永久	5.67KB	助教 ...	2次	
	Labsetup-arm.zip		刚刚	永久	5.84KB	助教 ...	2次	