CS6570

Secure Systems Engineering

> ***!** We are now migrating to 64bit VM image **SSE_2024_64bit.ova** **!***
> *Assignments would still be compiled for 32bit machines and use 32bit addressing for ease of use*

These instructions and all assignments in the course assume the underlying architecture of your machine is x86/AMD64. If you have an ARM-based machine (yes, your M1/2/3/4 ... Mac is ARM-based), please skip to **NOTE**.

creds	**val**
username	sse
password	sse@2024
ASLR	/home/sse/changes

TLDR

- Install Virtualbox for your relevant distro, import ~~**SSE_2024.ova**~~ **SSE_2024_64bit.ova** and run it.

Installation

- Assuming you see this document, there should be two other VM files in the shared folder, download **SSE_2024_64bit.ova**
- ~~SSE_2024.ova~~ SSE_2024_64bit.ova (sha256sum : `208a53c17db7b3a9e3a166e47f8ee12674e70e8d2656bfc679dea3fc774966a3`)
- ~~SSE_2024_downgrade.ova (sha256sum: `8086e211ffbb731d50af2fa3bcfef5648a1b16e0abe726edfa45e9cedad59c87`)~~
- ~~SSE_2024.ova~~ SSE_2024_64bit.ova uses OVF (Open Virtualization Format) 2.0, while **SSE_2024_downgrade.ova** uses OVF 1.0
- In case ~~**SSE_2024.ova**~~ **SSE_2024_64bit.ova** does not work for you, try SSE_2024_downgrade.ova
- Install Virtualbox for your distro/OS
- Import appliance ~~**SSE_2024.ova**~~ **SSE_2024_64bit.ova**, follow on-screen prompts, and modify any parameters if needed

> *NOTE: If you are not able to follow the instructions or have an incompatible/lack of a machine, please write an email to Prof.NSN (swamy[at]cse[dot]iitm[dot]ac[dot]in)*

> *If you are using Apple silicon, you would need an emulator to emulate the ISA like QEMU or UTM which is also QEMU based. Emulation would be significantly slower than virtualization, it is adviced to borrow an x86 machine iff possible.*