Virtual Appliance Instructions for ENISA CERT Training

TLP WHITE

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About ENISA

The European Union Agency for Network and Information Security (ENISA) is a centre of network and information security expertise for the EU, its member states, the private sector and Europe's citizens. ENISA works with these groups to develop advice and recommendations on good practice in information security. It assists EU member states in implementing relevant EU legislation and works to improve the resilience of Europe's critical information infrastructure and networks. ENISA seeks to enhance existing expertise in EU member states by supporting the development of cross-border communities committed to improving network and information security throughout the EU. More information about ENISA and its work can be found at www.enisa.europa.eu.

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1 Virtual Appliance Instructions for ENISA CERT Training

1.1 Introduction

ENISA CERT training material helps to develop critical thinking, information security communication, technical capabilities and collaboration skills necessary for success in CERT community and their future career in the field of information security.

The purpose of these virtual images is to support the CERT training material and to provide hands on experience for target audience.

The operating system used for the exercise is Ubuntu[1] version 14.04, an open source Linux distribution, featuring the LXDE[2] desktop environment. The virtual appliance is distributed as an OVA package following the Open Virtualization Format (OVF)[3] version 1.0. It is best suited for use with Oracle Virtualbox[4] virtualization software but any other virtualization software supporting the OVF format can be used. Both Ubuntu and Virtualbox are freely distributed and can be downloaded from their respective websites.

1.2 Importing the virtual appliance

Firstly you need to import the OVA package into to the virtualization platform of your choice. The following instructions are specific to Virtualbox which is free and supports most major OSs and architectures. Virtualbox installation instructions can be found in the following link: "Installing Virtualbox" (https://www.virtualbox.org/manual/ch01.html#intro-installing).

After you have completed the installation successfully, open the "Oracle VM VirtualBox Manager". In the File menu, select Import Appliance, as shown in Figure 1

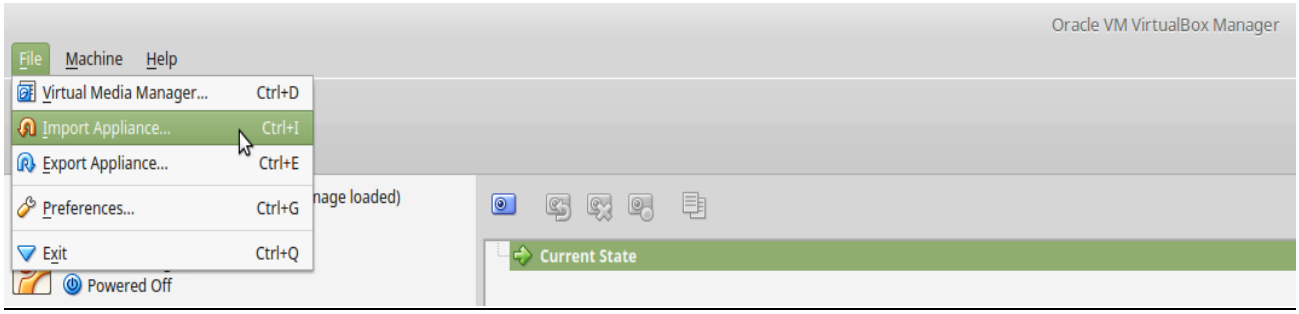

Figure 1: Import Appliance

The "Import Virtual Appliance" wizard is displayed in a new window, as shown in Figure 2. Select the OVA package you downloaded from the ENISA website, or that was handed to you by a trainer, and click "Next".

[1] Ubuntu web page http://www.ubuntu.com/ (last accessed 1.04.2015)
[2] Lightweight X11 Desktop Environment http://lxde.org/ (last accessed 1.04.2015)
[3] Open Virtualization Format (OVF) http://www.dmtf.org/standards/ovf (last accessed 1.04.2015)
[4] VirtualBox web page https://www.virtualbox.org/ (last accessed 1.04.2015)

Figure 2: Select virtual appliance to import

You can make adjustments to the default settings, as displayed in Figure 3, (you can change settings later if needed). It is recommend that you mark the “Reinitialize the MAC address of all network cards” checkbox. Next, click the “Import” button. After successfully importing the appliance, the wizard will close and the imported virtual machine will be listed in Oracle VM VirtualBox Manager.

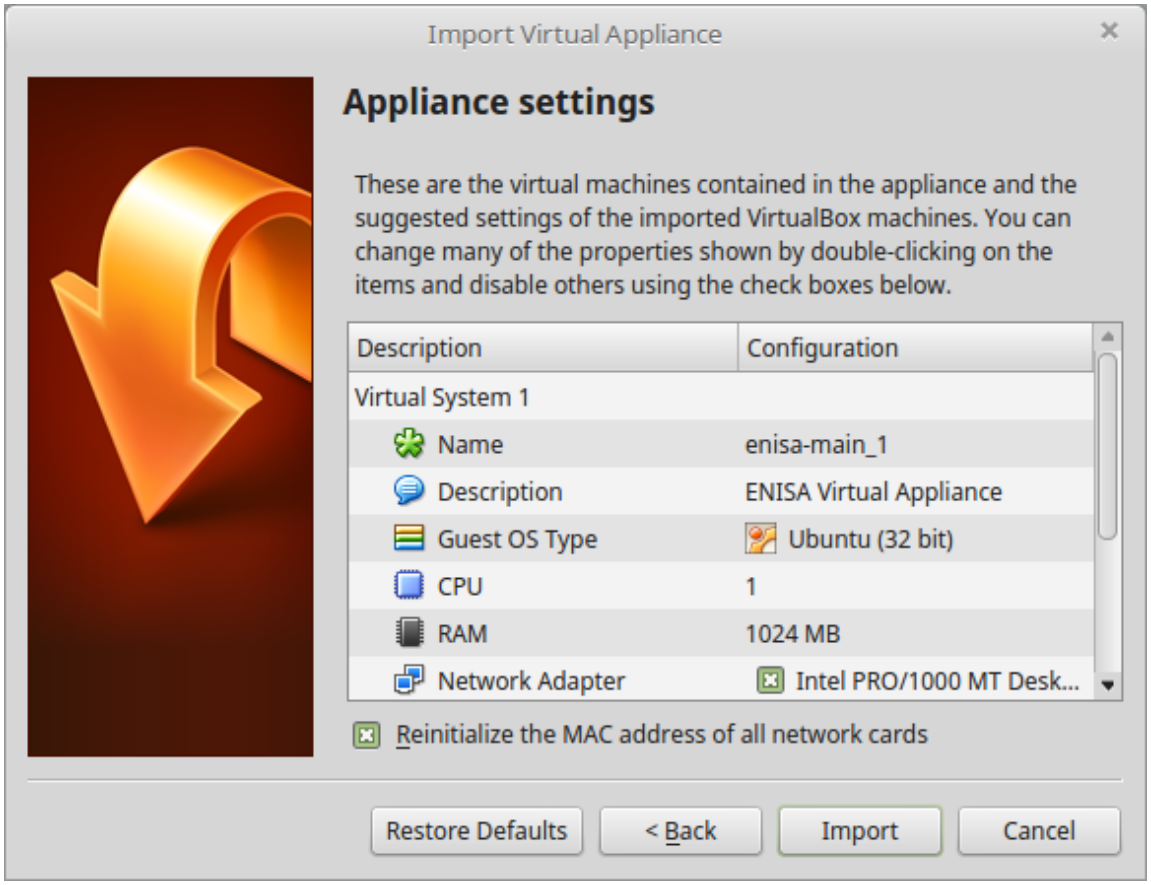

Figure 3: Appliance settings

Select the virtual machine you have imported and click on the "Start" button as shown in Figure 4 to start it up.

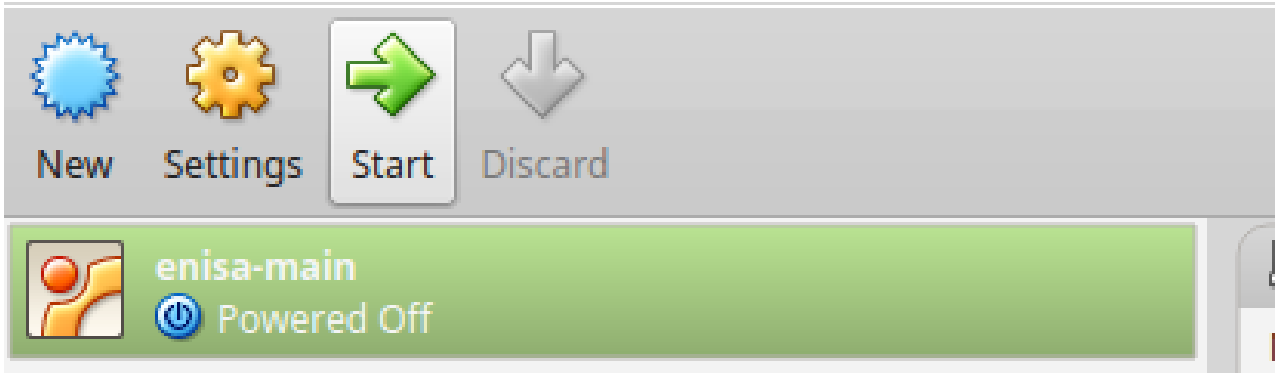

Figure 4: Start Virtual Machine

On the first run of the virtual machine, you will be asked to enter username and password. The credentials for the virtual machine are as the following (case sensitive):

- Username: enisa
- Password: enisa

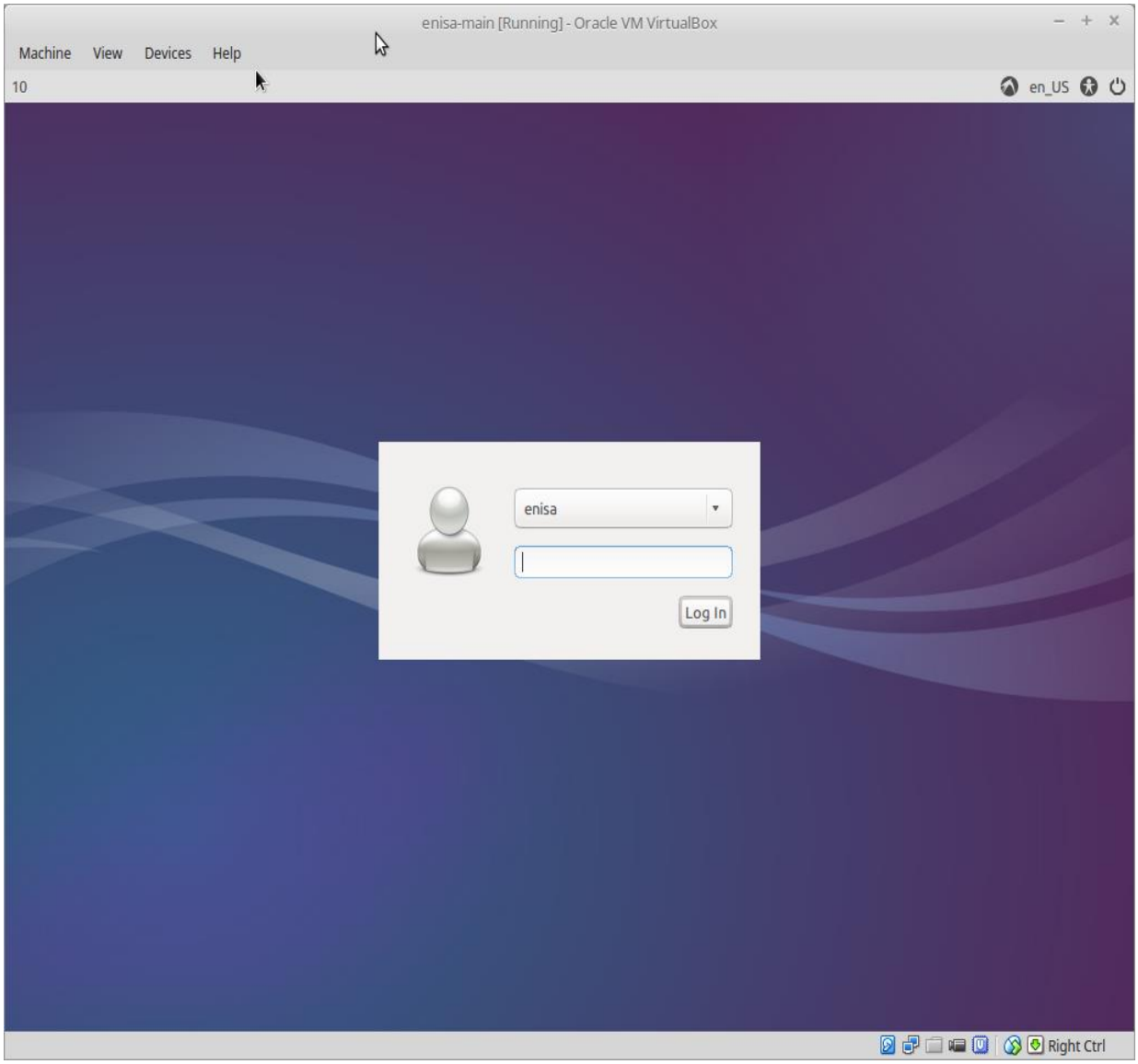

Figure 5: Login screen

After you have logged onto the virtual machine you will need to run an initial setup to initialize the exercise environment. This should only be done on the first run of the virtual machine. To do so open up "LXTerminal" by clicking the start menu in the bottom left corner and select "Accessories" -> "LXTerminal" as shown in Figure 6.

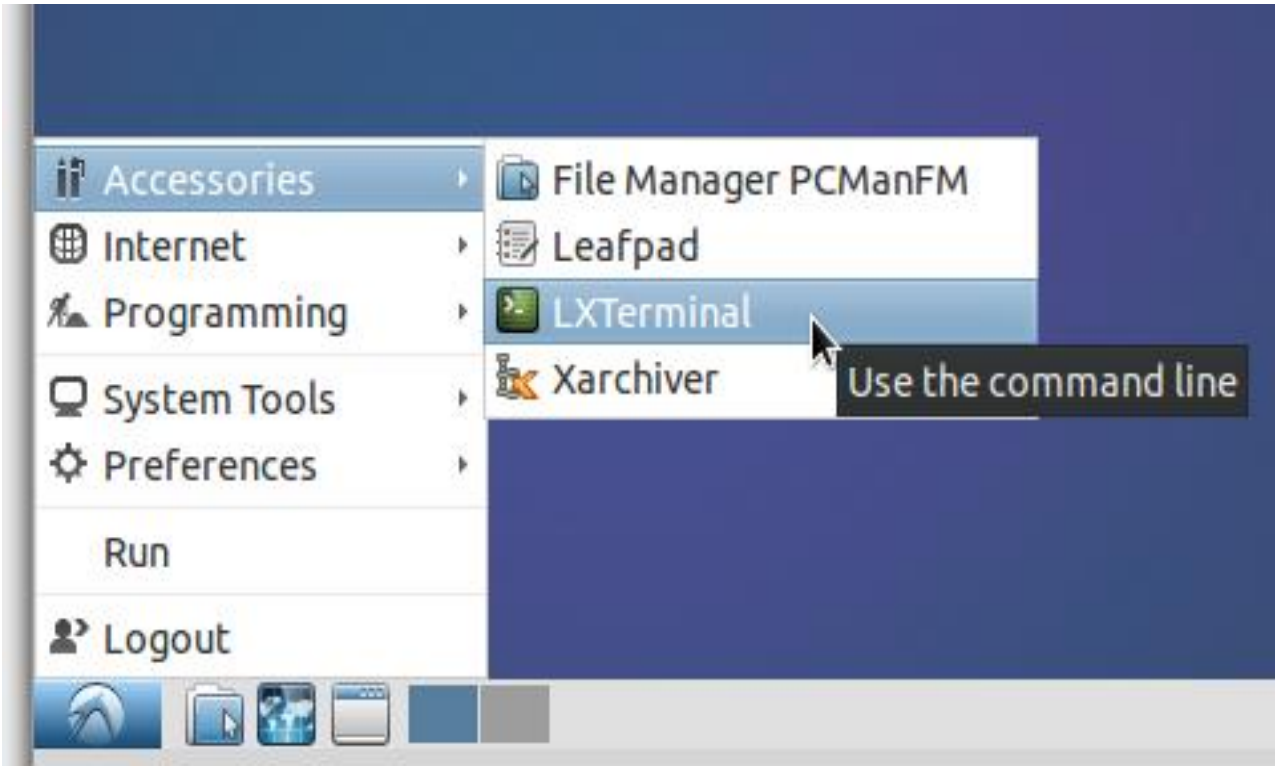

Figure 6: LXTerminal selection

In the “LXTerminal” window, type the following command and press “Enter” to continue:

enisa@10:~$ ./setup.sh

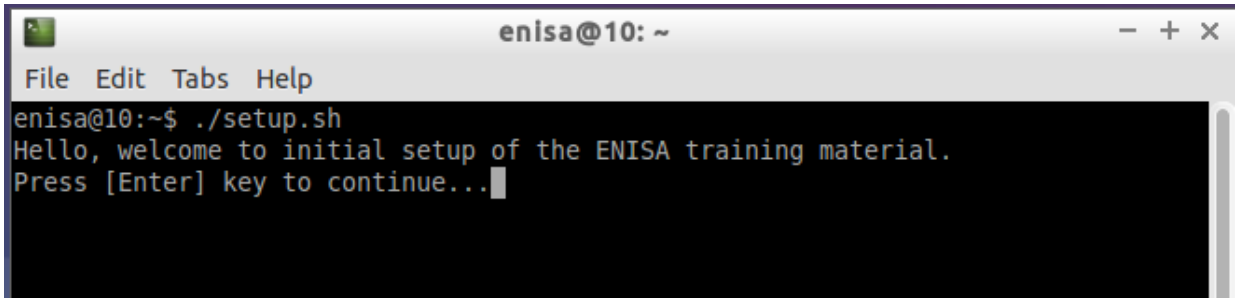

Figure 7: Run setup.sh

The complete setup will take approximately five minutes depending on the processing power of your host machine. When the setup phase is complete, press “Enter” again. This will force the system to reboot as shown in Figure 8.

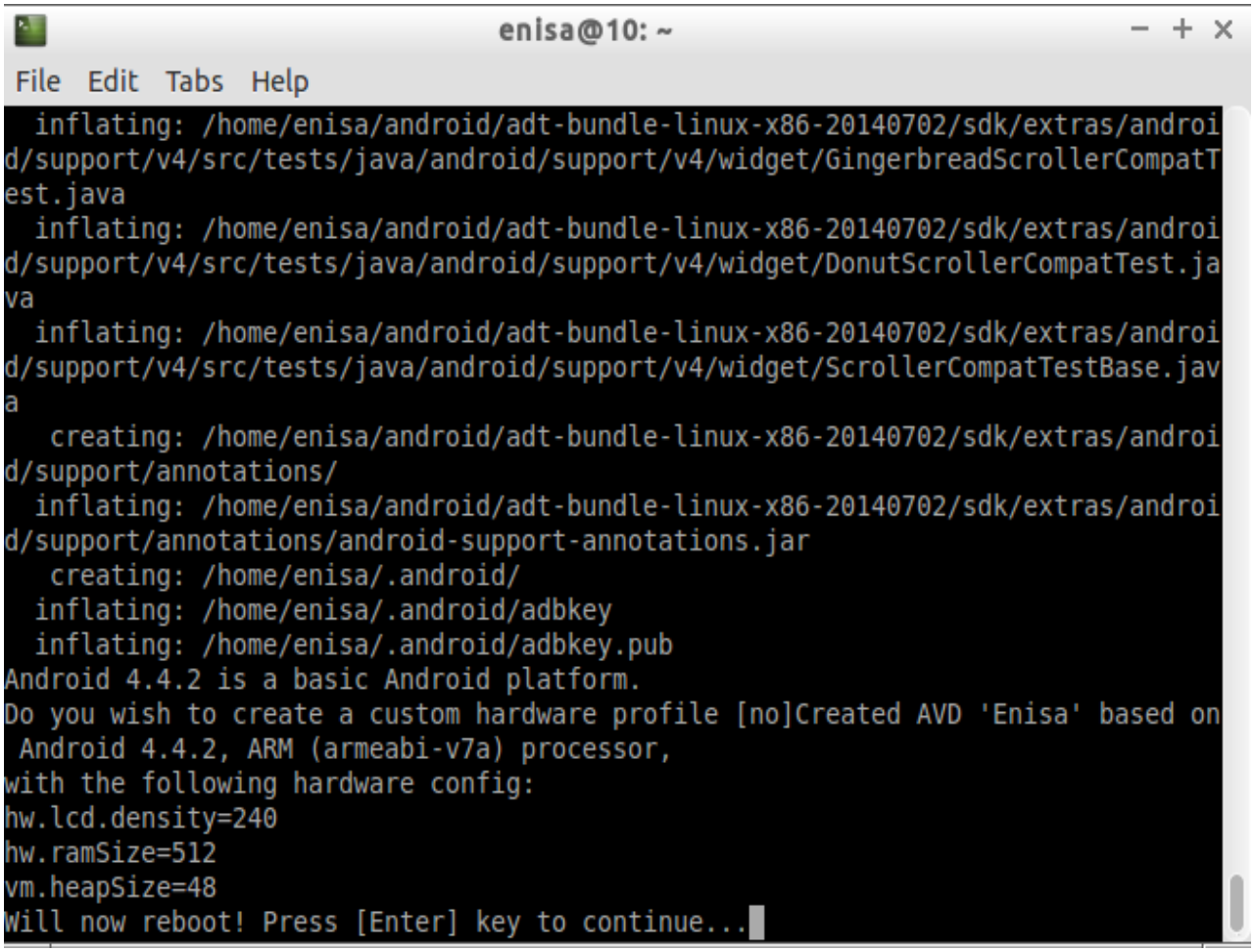

Figure 8: Finish setup

After the reboot, all the required material will be displayed on the desktop under the folder “Training-Material”. You can now continue with the specific exercise instructions, and enjoy the session.

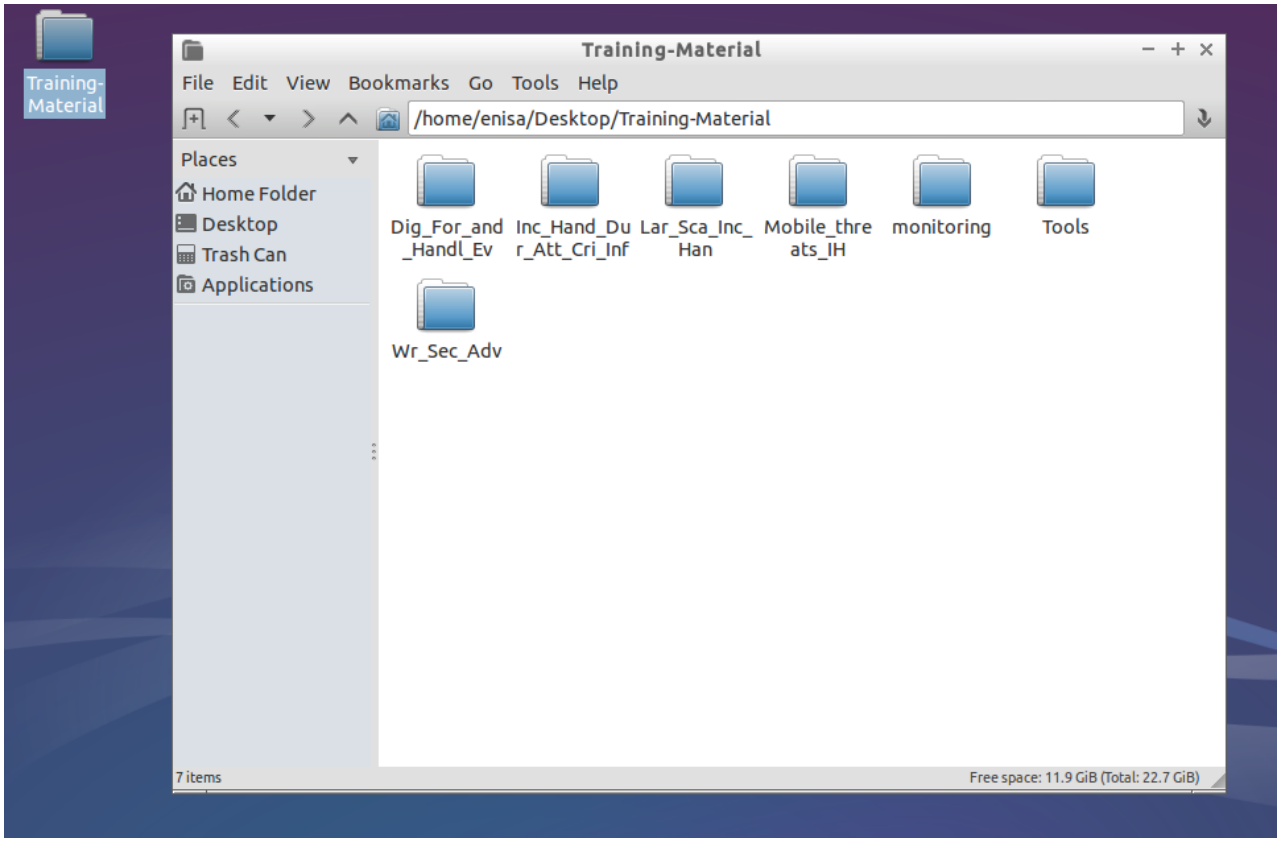

Figure 9: Training-Material folder

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