Notes on assigned Virtual Machines

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1 Overview

The virtual machines (VM) are made available to the students in a best effort policy; students agree to practice a fair use of the resources for the sole purpose of classes related activities.

The base configuration of the VM is a Ubuntu Server 18.04 LTS, 64-bit. Only the basic services are installed. The teams should manage their server, including install the required services/software.

The storage available is limited; be conscious about installing software or extra images for unneeded containers...

Alternative deployment:

As an alternative, you may use any public Cloud infrastructure, but no special support will be given.

2 Accessing the VM

Assigned VM to each group

- Check this list to find the VM assigned to your group

Remotely accessing the server

The server should be accessed using a SSH client (built-in in Linux and Mac OS; for Windows, you may use MobaXTerm).

Note: the first successful login will take some time...

The server does not have the graphic environment installed and you are advised not to install the graphic environment. You should use the command-line interface (CLI).

Connections are restricted to the UA's intranet (if at home, you need to use the VPN).

Sample access from a Linux terminal:

$ ssh joao.pequenino@deti-engsoft-31.ua.pt

User credentials

This VM is integrated with the UA federated authentication (UU).

The student account is configured to act as a "sudoer", meaning you can administrate the server, running commands with "root" privileges using the sudo mode.

3 Recommended system administration tasks

Some how-to that may be useful

1. Install the Java JDK 8 or 11 and make it the default Java interpreter.
2. Install Docker CE (manage Docker as a **non-root user**)
3. Installer a web-based Docker management environment (e.g.: Portainer)