

T5 - Networks and Systems Admin. Seminar

T-NSA-500

Day 06

Docker





The whole day should be done on a new virtual machine



For this day, it's review



applications are provided

TASK 00 - VIRTUAL MACHINE (1 PT)

Create a new debian 11 virtual machine without GUI.

TASK 01 - DOCKER INSTALLATION (2 PT)

Install docker on the machine.



TASK 02 - USER & GROUP (2 PT)

Create a “docker” group.

Create a user “marvin” who must be part of the “docker” group.



For all the following exercises, you are not allowed to use the root user to launch your docker container

TASK 03 - PORTAINER (3PT)

To help you manage your docker containers, you need to install portainer.

For this step, you must use docker.

Change the default port of portainer to 5555.

For test the portainer dashboard : <http://IP:5555>

TASK 04 - BACK END (3PT)

To deploy the back-end you will have to use the following image : “bitnami/symfony”



`docker pull bitnami/symfony`



TASK 05 - FRONT END (3PT)

To deploy the front-end you will have to use the following image : “node”



docker pull node

TASK 06 - DATABASE (2PT)

To deploy the front-end you will have to use the following image : “mysql”



docker hub

TASK 07 - DOCKER COMPOSE (3PT)

You have seen how to launch docker containers independently.

Now you will have to install docker-compose.

Create a docker-compose.yml file and integrate your 4 services (back-end, front-end and database, and portainer)



TASK 08 - END (1PT)

Finally, if everything works, you should see a success about marvin user on the website available at [http://\[ip\]/data.php](http://[ip]/data.php)