

T5 - Systems and Networks Seminar

T-NSA-500

Day 04

Infrastructure



1.1







Slug of the day: nsapoold04



This is the continuation of yesterday's day, so you must use the virtual machine server from the previous day.



Download the autograder on the vm-server and use it from there.

TASK 01 - BACKEND (4PT)

The provided backend must be located in /var/www/backend and must be available, through apache2, on the port 8080.

You must install the required php modules in order for it to run. Api must be available at http://localhost:8080/



virtualhost, symfony deployment

TASK 02 - ADMIN SECURITY (2PT)

In the application admin provided, you have an administrator section.

This scriptadmin.php must be available on http://localhost:8080/admin

This section is not secured and it is accessible by everyone.

You must secure it with apache features.

It is forbidden to modify the application code.

{**EPITECH**.}





basic auth

TASK 03 - SECURITY (3PT)

Configure the firewall iptables with the following characteristics:

- Rules have to be written in the /etc/iptables/rulesv4.3
- Allow service ssh (input and output)
- Allow HTTP protocol (output)
- Other authorizations necessary to run frontend and backend
- The other ports must be blocked and iptables configurations must not be wiped at reboot

You must be able to update package (apt) after application of theses rules.

TASK 04 - LOCAL BACKUP (3PT)

Your mission is to create a database backup script. It must backup database and compress it in the /backup directory Your script must be located /backup/backup.sh





TASK O5 - RECURRING SCRATCHES (3PT)

The previous script must be automatically executed every hour with root user

TASK 06 - HTTPS ADMIN (3PT)

Enable HTTPS protocol for admin panel. (see Task2)



self-signed certificate

TASK 07 - END

Finally, if everything works, you should see a success message on the front JS application deployed yester-day

