**Exercise 4: File permission and Environment**

vim ~/.bashrc

alias gstat=ps -eo

chmod 755 .bashrc  
chmod u+s .bashrc

Oppure anziché modificare il bashrc creo un file contenente l’aliaso:

vim gstat.sh

chown root gstat.sh  
chmod 4777 gtsat.sh  
chmod g-w gstat.sh  
chmod o-w gstat.sh

**Exercise 5: HTTPD Dynamic content** ?? non funziona

yum install httpd.service

systemctl start httpd.service

systemctl enable httpd

firewall-cmd --add-service=httpd --zone=external

yum install -y mod\_php

mkdir exercise5

--- /exam/exercise5/index.php ---

<?php

$httpd\_user = shell\_exec ( 'whoami' );

echo "<H1>Hello from $httpd\_user user</H1>" ;

?>

--- /etc/httpd/conf.d/testphp.conf ---

<VirtualHost \*:80>

ServerName index.php

DocumentRoot /exam/exercise5/

</VirtualHost>

<Directory /exam/exercise5/>

Require all granted

</Directory>

**Exercise 6: Bash script**

--- /exam/exercise6/number.sh ---

#! /bin/bash

PARAMETRO=$1

if [$PARAMETRO -gt 100]; then

echo "grather then 100"

elif [$PARAMETRO -le 100]; then

echo "OK"

else echo "not a number"

fi

**Exercise 7: Bash script**

#! /bin/bash

ARGOMENTO1=$1

ARGOMENTO2=$2

case "$ARGOMENTO1" in

add)

adduser $ARGOMENTO2

;;

remove)

deluser $ARGOMENTO2

;;

\*)

" Usage: /exam/exercise7/createuser.sh <username> add/remove "

;;

esac

**Exercise 8: Systemd and Firewalld**

yum install vsftpd

systemctl enable vsftpd  
systemctl start vsftpd

systemctl status vsftpd

netstat -tulpen | grep pid

firewall-cmd --permanent --add-port=PortNumber/tcp

**Exercise 9: Firewalld**

firewall-cmd --permanent --add-rich-rule='rule service name="http" log prefix="Exercise9\_log\_httpd" level="notice" limit value="2/s" accept’

**Exercise 10: Docker**

--- start.sh ---

#!/bin/bash

for i in {1..5}

do

echo "Hello $STUDENT"

sleep 2

done

echo "goodbye"

--- Dockerfile ---

FROM centos:8

ENV STUDENT=Student

COPY start.sh /start.sh

RUN chmod +x /start.sh

CMD ["/start.sh"]

[root@server 2] docker build -t lcavatorta/lab152:1.0 .

[root@server 2] docker kill (CONTAINER ID da docker ps)

[root@server 2] docker run lcavatorta/lab152:1.0

Hello Student

Hello Student

Hello Student

Hello Student

Hello Student

goodbye

[root@server 2] docker run -e "STUDENT=luca" lcavatorta/lab152:1.0

Hello luca