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QUESTION 1

SIMULATION

There were two systems:

system1, main system on which most of the configuration take place

system2, some configuration here

SSH configuration.

Configure SSH access on your virtual hosts as follows.

Clients within my22ilt.org should NOT have access to ssh on your systems

Correct Answer: Please see explanation

Explanation:

```
# vim /etc/hosts.deny  
sshd: .my22ilt.org
```

Save and Exit (:wq) Then run this:

```
systemctl restart sshd
```

Optional:

```
systemctl enable sshd  
firewall-cmd --permanent --add-service=ssh  
firewall-cmd --reload
```

Optional:

QUESTION 2

SIMULATION

There were two systems:

system1, main system on which most of the configuration take place

system2, some configuration here

Dynamic Webpage Configuration.



Configure website `http://wsgiX.example.com:8961` on system1 with the documentroot `/var/www/scripts`

Site should execute `webapp.wsgi`

Page is already provided on `http://classroom.example.com/pub/webapp.wsgi`

Content of the script should not be modified

Correct Answer: Please see explanation

Explanation: Verification from Server2:

```
yum install -y mod_wsgi

mkdir -p /var/www/scripts
cd /var/www/scripts
wget http://classroom.example.com/pub/webapp.wsgi
restorecon -Rv /var/www/scripts

vim /etc/httpd/conf/httpd.conf

Listen 8961

vim /etc/httpd/conf.d/wsgil.conf

<VirtualHost *:8961>
ServerAdmin webmaster@wsgil.example.com
ServerName wsgil.example.com
DocumentRoot /var/www/scripts # We don't need it,only testing
WSGIScriptAlias / /var/www/scripts/webapp.wsgi
CustomLog "logs/wsgi_access_log" combined
ErrorLog "logs/wsgi_error_log"
</VirtualHost>

<Directory "/var/www/scripts">
AllowOverride None
# Allow open access:
Require all granted
</Directory>

firewall-cmd --permanent --add-port=8961/tcp
firewall-cmd --reload

semanage port -a -t http_port_t -p tcp 8961

systemctl status httpd
```

```
yum install -y elinks
links --dump http://wsgil.example.com:8961
Should present with the desired page
```



QUESTION 3

SIMULATION

There are Mail servers, Web Servers, DNS Servers and Log Server. Log Server is already configured. You should configure the mail server, web server and dns server to send the logs to log server.

Correct Answer: Please see explanation

Explanation:

According to question, log server is already configured. We have to configure the mail, web and dns server for log redirection. In mail, web and dns server:

1.

```
vi /etc/syslog.conf mail.* @logserveraddress
```

2.

```
service syslog restart
```

mail is the facility and * means the priority. It sends logs of mail services into log server.

QUESTION 4

SIMULATION

There were two systems:

system1, main system on which most of the configuration take place

system2, some configuration here

MariaDB

Restore a database on serverX from the backup file <http://classroom.com/pub/rhce/backup.mdb>

The database name should be Contacts. It should be access only within the localhost

Set a password for root user as "Postroll". Other than the root user, the user Andrew is able to read the query from the above mentioned database. The user should be authenticated with the password as "Postroll".

Correct Answer: Please see explanation

Explanation:



```
yum groupinstall -y mariadb mariadb-client
systemctl start mariadb
systemctl enable mariadb
(We don't need to open firewall port because it says that only
access from localhost)
mysql secure installation
wget http://classroom.example.com/pub/rhce/backup.mdb
mysql -u root -p
CREATE DATABASE Contacts;
CREATE USER andrew@localhost IDENTIFIED BY 'Postroll';
GRANT SELECT ON Contacts.* TO andrew@localhost;
mysql -u root -p Contacts<backup.mdb
```

QUESTION 5

SIMULATION

There were two systems:

system1, main system on which most of the configuration take place

system2, some configuration here

Link aggregation.

Configure your serverX and desktop, which watches for link changes and selects an active port for data transfers.

serverX should have the address as 192.169.X.10/255.255.255.0

desktopX should have the address as 192.168.X.11/255.255.255.0 (Note: where X is your station number)

Correct Answer: Please see explanation

Explanation:

On Server Machine:



```
nmcli con add type team con-name Team1 ifname Team1
        config '{"runner":{"name": "activebackup"}}'

nmcli con modify Team1 ipv4.addresses 192.168.1.10/24
nmcli con modify Team1 ipv4.method manual
nmcli con add type team-slave con-name Team1-slave1 ifname eth1 master Team1
nmcli con add type team-slave con-name Team1-slave2 ifname eth2 master Team1

nmcli con up Team1
nmcli con up Team1-slave1
nmcli con up Team1-slave2
```

Verification & Testing:

```
teamdctl Team1 state
nmcli dev dis eth1 ---> Disconnect device for verification
nmcli con up Team1-slave1
teamnl Team1 ports
teamnl Team1 getoption activeport
teamnl Team1 setoption activeport PORT_NUMBER

ping -I Team1 192.168.1.11
```

Verification and Testing:

On Desktop Machine:

```
nmcli con add type team con-name Team1 ifname Team1 config '{"runner":
{"name": "activebackup"}}'
nmcli con modify Team1 ipv4.addresses 192.168.1.11/24
nmcli con modify Team1 ipv4.method manual
nmcli con add type team-slave con-name Team1 -slave1 ifname eth1 master
Team1
nmcli con add type team-slave con-name Team1 -slave2 ifname eth2 master
Team1

nmcli con up Team1
nmcli con up Team1 -slave1
nmcli con up Team1 -slave2
```

Verification and Testing:



```
teamctl Team1 state
nmcli dev dis eth1 ---> Disconnect device
for verification
nmcli con up Team1-slave1
teamctl Team1 ports
teamctl Team1 getoption activeport
teamctl Team1 setoption activeport
PORT_NUMBER

ping-I Team1 192.168.1.10
```

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