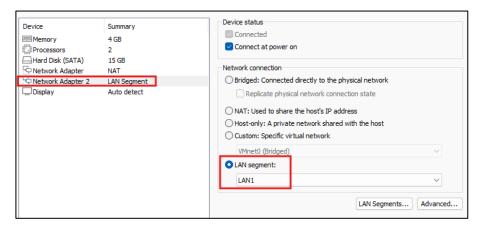


Instructions:

- Download the VM Final-Exam using this URL: Final-Exam-VM
- Before starting the VM, ensure that the second Network Adapter is using LAN segment LAN1, if it is not, adjust it:



- VM Username/Password: root/alma.
- Create a new Word document and save it as YourName_Final-Exam.docx.
- Take screenshots of all the all the commands used and the results obtained and paste them into the Word document.
- Once completed, convert the document to **PDF** format and submit it in **Moodle**.
- You must also submit a compressed file containing of the /etc/httpd/conf/httpd.conf, /etc/named.conf, /etc/resolv.conf and /var/named/exam.com.zone files, containing of /var/www/exam directory and the perl script.

Tasks

/3	1. Server preparation:
	Modify the server name to serverX.exam.com (where X is your number assigned by the teacher).
	Install and configure an Apache server to serve web pages from the /var/www/exam directory.
	☑ Make sure to:
	Place an index.html web page in the directory above.
	The index.html page must contain links to test all the questions in this exam.
	 You must test both allowed access and denied access scenarios. See the example provided on the last page of this document.
/3	2. Website creation:
	© Create the directory /var/www/exam/q2 and configure the Apache server so that it is only accessible to computers on the 192.168.200 subnet.
	© Create a web page that automatically displays in the browser when the directory address is entered. The page must display the text "Q2".



	3.	Authentication and Secure Server:
/6		☑ Create the secure_exam directory inside /var/www/exam and configure Apache so that only the user roger using the IP address 192.168.200.1, and the password exam, can access it. All other users must be denied access.
		☑ Create a secure_exam2 directory inside /var/www/exam and place an .htaccess file in it to define that only the user roger can access the web pages in this directory or just using the IP address 192.168.200.1.
	4.	DNS and Virtual Hosts:
/6		☑ Create name-based and port-based virtual hosts using the hostnames listed below.
		☑ Use the same IP address 192.168.200.1 for all virtual servers.
		<u>Note:</u> Since these are virtual hosts, the basic configuration is the same for all. Each server must use its own directory to store its web pages. DNS-based name resolution must be used for hostname resolution.
		☑ Hostname: virtuel1.exam.com
		Port: 80 Web directory: /var/www/exam/q5/virtuel1_80
		☑ Hostname: virtuel2.exam.com
		Port: 8000
		Web Directory: /var/www/exam/q5/virtuel2_8000
/2	5.	<u>CGI</u>
		☑ Inside the /var/www/exam/cgi-bin directory, create a Perl script that displays the text "Examen CGI" as a heading in your web browser.
		Only the computer with the IP address 192.168.200.1 should be allowed to execute the programs in this directory.



Final Exam

Question 2

Access to Q2 with 127.0.0.1 - Denied Access to Q2 with 192.168.200 - Authorised

Question 3

Access to secure exam with 192.168.200 and roger - Authorised
Access to secure exam with 127.0.0.1 - Denied
Access to secure exam2 with 192.168.200 and roger - Authorised
Access to secure exam2 with 127.0.0.1 with roger - Authorised

Question 4

Access to virtuel1.exam.com port 80
Access to virtuel2.exam.com port 8000

Question 5

CGI/PERL with 192.168.200.1 - Authorised CGI/PERL with 127.0.0.1 - Denied