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init-2019-05-23_final2-copy

Download (https://projects.intra.42.fr/projects/init/project_sessions/4900/evaluations/636/scales/1234.yml)

Index (https://projects.intra.42.fr/projects/init/project_sessions/4900/evaluations/636/scales)

Create new one (/projects/init/project_sessions/4900/evaluations/636/scales/new)

Edit (/projects/init/project_sessions/4900/evaluations/636/scales/1234/edit)

Remember that the quality of the defenses, hence the quality of the of the school on the labor market depends on you. The remote defences during the Covid crisis allows more flexibility so you can progress into your curriculum, but also brings more risks of cheat, injustice, laziness, that will harm everyone's skills development. We do count on your maturity and wisdom during these remote defenses for the benefits of the entire community.

SCALE FOR PROJECT INIT (/PROJECTS/INIT)

Introduction

Please respect the following rules:

- Remain polite, courteous, respectful and constructive throughout the evaluation process. The well-being of the community depends on it.
- Identify with the person (or the group) graded the eventual dysfunctions of the work. Take the time to discuss and debate the problems you have identified.
- You must consider that there might be some difference in how your peers might have understood the project's instructions and the scope of its functionalities. Always keep an open mind and grade him/her as honestly as possible. The pedagogy is valid only if the peer-evaluation is conducted seriously.

Guidelines

- Only grade the work that is in the student or group's GiT repository.
- Double-check that the GiT repository belongs to the student or the group. Ensure that the work is for the relevant project and also check that "git clone" is used in an empty folder.
- Check carefully that no malicious aliases was used to fool you

and make you evaluate something other than the content of the official repository.

- To avoid any surprises, carefully check that both the evaluator and the evaluated students have reviewed the possible scripts used to facilitate the grading.
- If the evaluated student has not completed that particular project yet, it is mandatory for this student to read the entire subject prior to starting the defence.
- Use the flags available on this scale to signal an empty repository, non-functioning program, a norm error, cheating etc. In these cases, the grading is over and the final grade is 0 (or -42 in case of cheating). However, with the exception of cheating, you are encouraged to continue to discuss your work (even if you have not finished it) in order to identify any issues that may have caused this failure and avoid repeating the same mistake in the future.

Atta	chm	ents
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/ 30bieci (iiiibs./ / caii.iiiia.4z.ii / bai/ bai/ 13130/ iiiii.eii.ba	Subject (https:/	//cdn.intra.42.fr/	/bdf/pdf	/13138/init.	en.pdf)
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Part 1 - Network

Evaluation of Part 1 - Network

Get the list of the network interfaces of the machine without displaying any detail

Check that the answer file contains the command which lists the names of the interfaces of the machine and no other information.

For instance:

\$>`cat 01`

lo0 gif0 stf0 en0 en1 en2 en3 p2p0 awdl0 bridge0

\$>

✓ Yes

 \times No

Identify and display the Ethernet interface characteristics

Check that the answer file contains the command which identifies and displays the broadcast address AND all IP adresses which are part of the same subnet.

✓ Yes

 \times No

Identify the MAC address of the Wi-Fi card

Check that the answer file contains the command which identifies and diplays the MAC address of the wi-fi board.

For instance:

\$>`cat 03`

xxn: flags=XXXX

ether 00:00:00:00:00

\$>

✓ Yes

 \times No

Identify the default gateway in the routing table

Check that the answer file contains the command which identifies and displays the default gateway in the routing table. For instance:

\$>sh 04 default 42.42.42.42 UGSc 19 16 en0 \$>

✓ Yes

 \times No

Identify the IP address of the DNS server which answers to slash 16.org

Check that the answer file contains the command which identifies and displays the IP address of the DNS server.

For instance:

\$>`cat 05`

Server: 10.51.1.42 Address: 10.51.1.42

Non-authoritative answer:

Name:slash 16.org

Address: 195.154.52.157

Name:slash 16.org

Address: 195.154.52.158

\$>

✓ Yes

 \times No

Get the complete path of the file that contains the IP address of the DNS server you're using

Check that the answer file contains the complete path of the file in which the IP address of the used DNS server is written.

\$>cat 06 /etc/resolv.conf \$>		
		imesNo
Query an external DN	IS server on the same domain name (ex, go	ogle 8.8.8.8)
	contains the command which solve the same domain name.	
For instance: \$>`cat 07` Server:8.8.8.8 Address:8.8.8.8		
Non-authoritative answer Name:slash 16.org Address: 195.154.52.157 Name:slash 16.org Address: 195.154.52.158 \$>	,	
	∀Yes	×No
Find the provider of slo	ash 16.org	
Check that student's answ	er in the file is AWS (Amazon Web Services).	
		imesNo
Find the external IP of	42.fr	
•	ou his approach and explain it. er in the file is 163.172.250.12 and/or 163.172.2	50.11.
		×No
Identify the network d	levices between your computer and the slas	h 16.org domain

Check that the answer file contains the command which identifies and displays the different network devices between your computer and slash 16.org.

For instance:

 $https://projects.intra.42.fr/projects/init/project_sessions/4900/evaluations/636/scales/1234$

\$>`cat 10`	
traceroute to slash 16.org (195.154.52.158), 64 hops max, 52 byte pa	ckets
1 10.8.0.1 (10.8.0.1) 5.809 ms 6.087 ms 3.124 ms	
2 10.42.1.254 (10.42.1.254) 6.005 ms 13.668 ms 7.037 ms	
3 nat-1.42.fr (10.60.1.11) 7.530 ms 3.379 ms 9.966 ms	
4 dc3.42.fr (62.210.35.1) 7.100 ms 7.587 ms 5.160 ms	
5 195.154.1.174 (195.154.1.174) 57.350 ms 168.093 ms 8.906 ms	
6 a9k2-45x-s44-2.dc3.poneytelecom.eu (195.154.1.106) 6.590 ms 3	3.910 ms 5.525 ms
7 195.154.1.179 (195.154.1.179) 4.077 ms 46.904 ms 3.883 ms	
8 pub-1.slash16.org (195.154.52.158) 5.699 ms 6.034 ms 7.632 ms	
\$>	
⊗ Yes	\times No
Use the output of the previous command to find the name and makes the link between you (local network) and the outside	
Check that student's answer in the file is the NAT server.	
⊗ Yes	imesNo
Find the IP that was assigned to you by dhcp server	
Check that the answer file contains the command which display the stud	lent host's IP
⊗ Yes	imesNo
Thanks previously answer and DNS sever find your hostname	3
Check that student's answer in the file is student host name.	
⊘ Yes	imesNo
What file contains the local DNS entries?	
Check that student's answer in the file is /etc/hosts.	
⊘ Yes	imesNo
Make the intra.42.fr address reroute to 46.19.122.85	
Ask the student to show you his approach and explain it. Check that student's answer in the file is '46.19.122.85 intra.42.fr'.	
⊗ Yes	×N₀

Part 2 - System

Evaluation of Part 3 - System

In what file can you fin	nd the installed ver	rsion of your Debian?
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Check that student's answer in the file is /etc/debian_version.

✓ Yes

 \times No

What command can you use to rename your system?

Check that the answer file contains the command which rename the system.

For instance:

\$>`cat 02`

machine.old.name.local

\$>

✓ Yes

 \times No

What file has to be modified to make it permanent?

Check that student's answer in the file is /etc/hostname.

✓ Yes

 \times No

What command gives your system was last booted?

Check that the answer file contains the command which gives the time since the last boot of the system. For instance:

\$>`cat 04`

17:44 up 1 day, 6:45, 4 users, load averages: 1.33 1.42 1.40

\$>

✓ Yes

 \times No

Name the command that determines the state of the SSH service?

Check that the answer file contains the command which determines the state of the SSH service.

For instance with init.d:

```
> cat 05
openssh-daemon (pid 22405) is running...
$>
Or with service:
$>`cat 05`
• ssh.service - OpenBSD Secure Shell server
Loaded: loaded (/lib/systemd/system/ssh.service; enabled)
Active: active (running) since Fri 2016-12-02 18:42:05 CET; 1 months 0 days ago
Main PID: 13106 (sshd)
CGroup: /system.slice/ssh.service
— 2461 ssh-agent -s
13106 /usr/sbin/sshd -D
 -27517 sshd: skyline [priv]
 —27519 sshd: skyline@pts/0
 —27561 sudo su
 <del>----</del>27562 su
 ├<del>--</del>27563 zsh
   -27589 systemctl status sshd.service
$>
                                                                           \timesNo

    ✓ Yes
```

Name the command that reboots it.

Check that the answer file contains the command which reboot the SSH service. For instance with init.d:

```
$>`cat 06`
Stopping sshd: [ OK ]
Starting sshd: [ OK ]
```

Or with service:

\$>`cat 06`

\$> service sshd status

• ssh.service - OpenBSD Secure Shell server

Loaded: loaded (/lib/systemd/system/ssh.service; enabled)

Active: active (running) since Fri 2016-12-02 18:42:05 CET; 10s ago

Main PID: 13106 (sshd)

CGroup: /system.slice/ssh.service

2461 ssh-agent -s

13106 /usr/sbin/sshd -D

27517 sshd: skyline [priv]

—27519 sshd: skyline@pts/0

├---27520 -zsh

-27561 sudo su

├—27562 su ├—27563 zsh	
27589 systemctl status sshd.service	
\$>	
The displayed time in Active has to be in seconds because of the	reboot of sshd.
	$ imes_{No}$
Figure out the PID of the SSHD service	
Check that the answer file contains the command which figure out the PID of the ssh service. For instance:	
\$>`cat 07` root 22405 0.0 0.0 66224 1184 ? Ss 17:46 0:00 /usr/sbin/ssh \$>	nd
	imesNo
What file contains the RSA keys authorized to connect vi	ia SSH?
Check that student's answer in the file is .ssh/authorized_keys	
	imesNo
What command lets you know who is connected to the S	System?
Check that the answer file contains the command which lets you know who is connected to the system. For instance:	
icis you know who is connected to the system. For insidirec.	
\$>`cat 09`	
skyline console Mar 23 10:59 skyline ttys000 Mar 24 17:04	
\$>	
	imesNo
Name the command that lists the partition tables of driv	res?

Check that the answer file contains the command which lists the partition tables of drives. For instance:

\$>`cat 10`

Disk /dev/sdb: 2000.4 GB, 2000398934016 bytes 255 heads, 63 sectors/track, 243201 cylinders

Units = cylinders of 16065 * 512 = 8225280 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x0000000

\$>

✓ Yes

 \times No

Name the command that displays the available the space left and used on the system in an humanly understandable way

Check that the answer file contains the command which displays the available space left and used on the system in an humanly understandable way. For instance:

\$>`cat 11`
Filesystem Size Used Avail Use% Mounted on /dev/xvda2 7.8G 1.2G 6.3G 16% / udev 10M 0 10M 0% /dev
tmpfs 200M 4.2M 196M 3% /run
tmpfs 500M 0 500M 0% /dev/shm
tmpfs 5.0M 0 5.0M 0% /run/lock
tmpfs 500M 0 500M 0% /sys/fs/cgroup
\$>

√ Yes

 \times No

Figure out the exact size of each folder of /var in a humanly understandable way followed by the path of it.

Check that the answer file contains the command which displays the exact size of each folders of /var in a humanly understandable way followed by the path of it. For instance:

\$>`cat 12`

4.0K /var/opt

864K /var/spool

1.3M /var/log

111 M /var/lib

124M /var/cache

4.0K /var/local

8.0K /var/mail

1.1M /var/backups

4.0K /var/tmp

238M /var

\$>

✓ Yes

 \times No

Name the command that find, in real time, currently running processes

Check that the answer file contains the command which displays running processes in real time.

For instance:

\$>`cat 13`

Tasks: 58 total, 1 running, 57 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st KiB Mem: 1022952 total, 359176 used, 663776 free, 168200 buffers

KiB Swap: 0 total, 0 used, 0 free. 86924 cached Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
1 root 20 0 28740 4760 3064 S 0.0 0.5 0:03.28 systemd
2 root 20 0 0 0 S 0.0 0.0 0:00.00 kthreadd
3 root 20 0 0 0 S 0.0 0.0 0:00.02 ksoftirqd/0
5 root 0 -20 0 0 S 0.0 0.0 0:00.00 kworker/0:0H

\$>

✓ Yes

 \times No

Run the tail -f /var/log/syslog command in background

Check that the answer file contains the command which runs the command `tail -f /var/log/syslog` in background For instance:

\$>`cat 14`

[1] 2660

Mar 25 06:25:03 rsyslogd: [origin software="rsyslogd" swVersion="8.4.2" x-pid="330" x-info="http://www.rsyslog.com"] rsyslogd was HUPed

Mar 25 07:17:01 CRON[2601]: (root) CMD (cd / && run-parts --report /etc/cron.hourly)

Mar 25 08:17:01 CRON[2656]: (root) CMD (cd / && run-parts --report /etc/cron.hourly)

\$>

✓ Yes

 \times No

Find the command that kills the background command's process

Check that the answer file contains the command which kills the process of the tail -f /var/log/syslog command. For instance:

\$>`cat 15`

[1]+ Terminated tail -f /var/log/syslog

\$>

✓ Yes

 \times No

Check that student's answer in the file is cron.			
	✓ Yes	imesNo	
Find the command	that allows you to connect via ssh	on the VM.	
Check that the answer via ssh on the VM.	file contains the command which allow	s you tu connect	
	⊗ Yes	×N₀	
Find the command t	that kills ssh service		
Check that the answer kill ssh service.	file contains the command which		
	⊗ Yes	imesNo	
List all services whi	ch are started at boot time and na	ıme this kind of services	
Check that the answer at boot time and name	ch are started at boot time and na file contains the List all services which a this kind of services (daemon)		
Check that the answer at boot time and name For instance: abrt-ccpp 0:off 1:off 2	file contains the List all services which a		
Check that the answer at boot time and name For instance: abrt-ccpp 0:off 1:off 2 abrt-oops 0:off 1:off 2	file contains the List all services which a this kind of services (daemon) 2:off 3:on 4:off 5:on 6:off		
Check that the answer at boot time and name For instance: abrt-ccpp 0:off 1:off 2 abrt-oops 0:off 1:off 2	file contains the List all services which as this kind of services (daemon) 2:off 3:on 4:off 5:on 6:off 2:off 3:on 4:off 5:on 6:off Soft 3:on 4:off 5:on 6:off	ire started	
Check that the answer at boot time and name For instance: abrt-ccpp 0:off 1:off 2 abrt-oops 0:off 1:off 2	file contains the List all services which as this kind of services (daemon) 2:off 3:on 4:off 5:on 6:off 2:off 3:on 4:off 5:on 6:off Soft 3:on 4:off 5:on 6:off	ire started	
Check that the answer at boot time and name For instance: abrt-ccpp 0:off 1:off 2 abrt-oops 0:off 1:off 2	file contains the List all services which a e this kind of services (daemon) 2:off 3:on 4:off 5:on 6:off 2:off 3:on 4:off 5:on 6:off Yes	ire started	

and not system users

✓ Yes

 \times_{N}

Find the command that add a new local user

Check that the answer file contains the command that add a new local user

✓ Yes

 \times No

Explain how connect yourself as new user

Check that the answer file containe contain how to connect yourself as new user on the VM on ssh session (command etc.) AND on graphic session.

✓ Yes

 \times No

Find the command that list all packages

Check that the answer file contain the command that list all installed packages

✓ Yes

 \times No

Part 3 - Scripting

Evalution of the part 3 - Scripting

Write a script which displays only the login, UID and Path of each entry of the /etc/passwd file

Check that the script displays only the login, UID and Path of each entry of the /etc/passwd file. For instance:

\$>sh 1

root:0:/bin/bash

daemon:1:/usr/sbin/nologin

bin:2:/usr/sbin/nologin

sys:3:/usr/sbin/nologin

sync:4:/bin/sync

games:5:/usr/sbin/nologin

man:6:/usr/sbin/nologin

lp:7:/usr/sbin/nologin

mail:8:/usr/sbin/nologin

news:9:/usr/sbin/nologin

uucp: 10:/usr/sbin/nologin

proxy: 13:/usr/sbin/nologin

www-data:33:/usr/sbin/nologin backup:34:/usr/sbin/nologin list:38:/usr/sbin/nologin irc:39:/usr/sbin/nologin gnats:41:/usr/sbin/nologin nobody:65534:/usr/sbin/nologin systemd-timesync: 100:/bin/false systemd-network: 101:/bin/false systemd-resolve: 102:/bin/false systemd-bus-proxy: 103:/bin/false sshd:104:/usr/sbin/nologin Debian-exim: 105:/bin/false postfix: 106:/bin/false

skyline: 1000:/bin/bash

\$>





Write a script which delete an ACTIVE user on the VM.

Check that the script delete an ACTIVE user on the VM.

For instance:

Create an user.

Connect you at the VM.

Launch your script.

List all existing users. (New user should not appear)





Three's a Charm. Write a script of you choice.

Check script's utility and complexity.

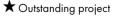


Rate it from 0 (failed) through 5 (excellent)

Ratings

Don't forget to check the flag corresponding to the defense





Empty work





O Forbidden function

usion	uation			
,	//			
		Preview!!!		

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