

fel-hita

(https://profile.intra.42.fr)

(https://profile.intra.42.fr/searches) SCALE FOR PROJECT INIT (/PROJECTS/INIT)

You should evaluate 1 student in this team



Git repository

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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.

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Sujet (https://cdn.intra.42.fr/pdf/pdf/1381/init.fr.pdf)
Subject (https://cdn.intra.42.fr/pdf/pdf/1308/init.uk.pdf)
Subject (https://cdn.intra.42.fr/pdf/pdf/1281/init.en.pdf)

Part 1 - Follow Slash 16 around the world

You have to follow us in the whole world

The student has followed Slash16 on Linkedin, Facebook and Twitter

The student has followed Slash 16 on Linkedin, Facebook and Twitter

 \times No

Part 2 - Network

Evaluation of Part 2 - 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 specifications of the Ethernet interface. For instance:

\$>`cat 02`
en0: flags=XXXX
mtu 1500
options=10b
ether 00:00:00:00:000
inet 42.42.42.42 netmask 0xffffff00 broadcast 42.42.42.255
nd6 options=1
media: autoselect (1000baseT)
status: active
\$>

✓ 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 05

/etc/resolv.conf

\$>

✓ Yes

 \times No

Query an external DNS server on the same domain name (ex, google 8.8.8.8)

Check that the answer file contains the command which use another DNS server to solve the same domain name. For instance:

\$>`cat 07`

Server:8.8.8.8

Address: 8.8.8.8

Intra Projects init Edit Non-authoritative answer: Name:slash 16.org Address: 195.154.52.157 Name:slash 16.org Address: 195.154.52.158 \$> \times No ✓ Yes Find the provider of slash 16.org Check that student's answer in the file is AWS (Amazon Web Services). \times No ✓ Yes Find the external IP of 42.fr Ask the student to show you his approach and explain it. Check that student's answer in the file is 163.172.250.12 and/or 163.172.250.11. ✓ Yes \times No Identify the network devices between your computer and the slash16.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.

\$>`cat 10`

For instance:

traceroute to slash 16.org (195.154.52.158), 64 hops max, 52 byte packets
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 3.910 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.slash 16.org (195.154.52.158) 5.699 ms 6.034 ms 7.632 ms
\$>

Check that student's answer in the file is the NA	AT server.
⊗ Yes	imesNo
Check that the server with the 10.51.1.25	53 IP address is reachable from your computer.
Check that the answer file contains the commandisplays if the IP address is reachable or not. Fo	
\$>`cat 12` 64 bytes from 10.51.1.253: icmp_seq=0 ttl=62 64 bytes from 10.51.1.253: icmp_seq=1 ttl=62 \$>	
	imesNo
	ne of the server linked to the 10.51.1.81 IP address
Check that student's answer in the file is Idap-p	oroxy.42.fr ×No
Check that student's answer in the file is Idap-p Yes What file contains the local DNS entries?	oroxy.42.fr × No
Check that student's answer in the file is Idap-p Ø Yes What file contains the local DNS entries?	oroxy.42.fr × No
Check that student's answer in the file is Idap-p Yes What file contains the local DNS entries? Check that student's answer in the file is /etc/h Yes	Proxy.42.fr No No No No
Check that student's answer in the file is Idap-p Yes What file contains the local DNS entries? Check that student's answer in the file is /etc/h	Proxy.42.fr No No No 46.19.122.85 explain it.

Part 3 - System

In what file can you find the installed version of your Debian?		
Check that student's answer in the file is /etc/debian_version.		
⊘ Yes	×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 \$>		
	\times No	
What file has to be modified to make it permanent?		
Check that student's answer in the file is /etc/hostname.		
	imesNo	
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 \$>		
	imesNo	
Name the command that determines the state of the SSH servi	:e?	

\$>`cat 05`

 \times No

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 ---27520 -zsh ---27561 sudo su ---27562 su <u></u>27563 zsh -27589 systemctl status sshd.service \$>

Name the command that reboots it.

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

✓ Yes

\$>`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

<u>----</u>27517 sshd: skyline [priv]

—27519 sshd: skyline@pts/0

—27520 -zsh		
—27561 sudo su		
—27562 su		
—27563 zsh		
27589 systematl status sshd.service		
\$>		
The displayed time in Active has to be in seconds because of the reb	oot of sshd.	
	imesNo	
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/sshd \$>		
⊗ Yes	imesNo	
What file contains the RSA keys authorized to connect via S	SSH?	
Check that student's answer in the file is .ssh/authorized_keys		
⊗ Yes	imesNo	
What command lets you know who is connected to the Sys	tem?	
	tem?	
Check that the answer file contains the command which	tem?	
Check that the answer file contains the command which lets you know who is connected to the system. For instance:	tem?	
Check that the answer file contains the command which lets you know who is connected to the system. For instance: \$>`cat 09`	tem?	
Check that the answer file contains the command which lets you know who is connected to the system. For instance: \$>`cat 09` skyline console Mar 23 10:59	tem?	
Check that the answer file contains the command which lets you know who is connected to the system. For instance: \$>`cat 09` skyline console Mar 23 10:59 skyline ttys000 Mar 24 17:04	tem?	
What command lets you know who is connected to the Sys Check that the answer file contains the command which lets you know who is connected to the system. For instance: \$>`cat 09` skyline console Mar 23 10:59 skyline ttys000 Mar 24 17:04 \$>	tem?	

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 0 S 0.0 0.0 0:00.00 kthreadd

3 root 20 0 0 0 0 S 0.0 0.0 0:00.02 ksoftirqd/0 5 root 0 -20 0 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

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)

\$>



 \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

Find the service which makes it possible to run specific tasks following a regular schedule

Check that student's answer in the file is cron.

✓ Yes

 \times No

Find the command which gives the list of firewall rules

Check that the answer file contains the command which gives the list of firewall rules.

For instance:

\$>`cat 17`
Chain INPUT (policy ACCEPT)
target prot opt source destination

Chain FORWARD (policy ACCEPT) target prot opt source destination

Chain OUTPUT (policy ACCEPT) target prot opt source destination \$>

✓ Yes

 \times No

With the previous command, authorize only IP addresses from 10.0.0.0/8 to connect to your system

Check that the answer file contains the command which authorize only IP addresses from 10.0.0.0/8 to connect to your system.

.8		Intra Projects init Edit
	For instance:	
	\$>`cat 18`	
	\$>	
	\$> iptables -L	
	Chain INPUT (policy ACCEPT)	
	target prot opt source destination	
	ACCEPT all 10.0.0.0/8 anywhere	
	Chain FORWARD (policy ACCEPT)	
	target prot opt source destination	
	Chain OUTPUT (policy ACCEPT)	
	target prot opt source destination	
	\$>	
	✓ Yes	×No
	With the previous command, forbid all others IP	
	Check that the answer file contains the command which	
	forbids all others to connect to your system.	
	For instance:	
	\$>`cat 19`	
	\$> car 19	
	\$> iptables -L	
	Chain INPUT (policy DROP)	
	target prot opt source destination	
	ACCEPT all 10.0.0.0/8 anywhere	
	Chain FORWARD (policy ACCEPT)	
	target prot opt source destination	
	<u> </u>	
	Chain OUTPUT (policy ACCEPT)	
	target prot opt source destination	
	\$>	
		×No

Part 4 - 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

\$>

√ Yes

 \times No

Write a script which updates all the package sources, then all packages and then logs everything in a file named /var/log/update_script.log. Create a scheduled task for this script, once per week at 4 AM.

Check that the script updates all the package sources and logs everything in the good file and check if it is cron. For instance:

\$>sh script/2

\$>cat /var/log/update_script.log

Hit http://cloudfront.debian.net jessie-backports InRelease

Hit http://security.debian.org jessie/updates InRelease

Intra Projects init Edit Hit http://security.debian.org jessie/updates/main Sources Hit http://security.debian.org jessie/updates/contrib Sources Hit http://security.debian.org jessie/updates/non-free Sources Hit http://security.debian.org jessie/updates/main amd64 Packages Hit http://security.debian.org jessie/updates/contrib amd64 Packages Hit http://security.debian.org jessie/updates/non-free amd64 Packages Hit http://security.debian.org jessie/updates/contrib Translation-en Ign http://httpredir.debian.org jessie InRelease Hit http://security.debian.org jessie/updates/main Translation-en Get: 1 http://httpredir.debian.org jessie-updates InRelease [142 kB] Hit http://security.debian.org jessie/updates/non-free Translation-en Get: 2 http://cloudfront.debian.net jessie-backports/main Sources/DiffIndex [27.8 kB] Get:3 http://httpredir.debian.org jessie Release.gpg [2,373 B] Get:4 http://cloudfront.debian.net jessie-backports/main amd64 Packages/DiffIndex [27.8 kB] Get:5 http://cloudfront.debian.net jessie-backports/main Translation-en/DiffIndex [27.8 kB] Hit http://httpredir.debian.org jessie-updates/main Sources Hit http://httpredir.debian.org jessie-updates/contrib Sources Hit http://httpredir.debian.org jessie-updates/non-free Sources Get:6 http://httpredir.debian.org jessie-updates/main amd64 Packages/DiffIndex [1,012 B] Hit http://httpredir.debian.org jessie-updates/contrib amd64 Packages Get:7 http://httpredir.debian.org jessie-updates/non-free amd64 Packages/DiffIndex [736 B] Get:8 http://httpredir.debian.org jessie-updates/contrib Translation-en [14 B] Get:9 http://httpredir.debian.org jessie-updates/main Translation-en/DiffIndex [736 B] Get: 10 http://httpredir.debian.org/jessie-updates/non-free Translation-en/DiffIndex [736 B] Get: 11 http://httpredir.debian.org jessie Release [148 kB] Hit http://httpredir.debian.org jessie/main Sources Hit http://httpredir.debian.org jessie/contrib Sources Hit http://httpredir.debian.org jessie/non-free Sources Hit http://httpredir.debian.org jessie/main amd64 Packages Hit http://httpredir.debian.org jessie/contrib amd64 Packages Hit http://httpredir.debian.org jessie/non-free amd64 Packages Get: 12 http://httpredir.debian.org/jessie/contrib/Translation-en [38.5 kB] Get: 13 http://httpredir.debian.org jessie/main Translation-en [4,582 kB] Get: 14 http://httpredir.debian.org jessie/non-free Translation-en [72.5 kB] Fetched 5,073 kB in 4s (1,143 kB/s) Reading package lists... Reading package lists... Building dependency tree... Reading state information... The following packages will be upgraded: git git-man 2 upgraded, 0 newly installed, 0 to remove and 0 not upgraded. Need to get 4,530 kB of archives. After this operation, 30.7 kB of additional disk space will be used. Get: 1 http://security.debian.org/jessie/updates/main.git-man.all 1:2.1.4-2.1+deb8u2 [1,267 kB]

Get: 2 http://security.debian.org/jessie/updates/main git amd64 1:2.1.4-2.1+deb8u2 [3,262 kB]

Fetched 4,530 kB in Os (14.5 MB/s)

(Reading database ... 41091 files and directories currently installed.)

Preparing to unpack .../git-man_1%3a2.1.4-2.1+deb8u2_all.deb ...

```
Unpacking git-man (1:2.1.4-2.1+deb8u2) over (1:2.1.4-2.1+deb8u1) ...

Preparing to unpack .../git_1%3a2.1.4-2.1+deb8u2_amd64.deb ...

Unpacking git (1:2.1.4-2.1+deb8u2) over (1:2.1.4-2.1+deb8u1) ...

Processing triggers for man-db (2.7.0.2-5) ...

Setting up git-man (1:2.1.4-2.1+deb8u2) ...

Setting up git (1:2.1.4-2.1+deb8u2) ...

$>

Pour vérifier que ce script est en cron :

$>crontab -I

00 4 * * 1 /bin/sh /usr/local/bin/01.sh

$>

© Yes
```

Write a script which displays the list of files from the folder given as parameter, sorted by size.

Check that the script diplays the list of files in the folder given as parameter, sorted by size.

For instance:

\$>sh script/3 /var
248736 /var
131080 /var/cache
125012 /var/cache/apt
113992 /var/lib
97572 /var/lib/apt
97544 /var/lib/apt/lists
75024 /var/cache/apt/archives
33016 /var/cache/apt/archives/linux-image-3.16.0-4-amd64_3.16.7-ckt20-1+deb8u4_amd64.deb
33012 /var/lib/apt/lists/httpredir.debian.org_debian_dists_jessie_main_binary-amd64_Packages
31764 /var/lib/apt/lists/httpredir.debian.org_debian_dists_jessie_main_source_Sources
\$>

Make a script which monitors the modifications of the /etc/crontab file and sends an e-mail to root if the file is modified. Create a scheduled task to run this script everyday at midnight.

Check that the script monitors the modifications of the /etc/crontab file and sends an e-mail to root ONLY if the file is modified. So you should receive an email showing the changes on the file, either in local with the mail command or in your own mailbox.

Further, you have to check the crontab:

\$>	/local/bin/04.sh 2>&1			
			$ imes_{No}$	
Make a script which di	splays 42.			
42 Obviously ;)				
	⊗ Yes		imesNo	
_	lag corresponding to the (
_	lag corresponding to the (defense ✔ Ok		
			⊘ Forbidden function	
Ratings Don't forget to check the f Empty work Conclusion		✓ Ok	⊘ Forbidden function	
Don't forget to check the f	ц	✓ Ok	⊘ Forbidden function	
Don't forget to check the f	ц	✓ Ok	⊘ Forbidden function	