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

You should correct 1 student in this team

Git repository

Introduction

Please respect the following rules:

- Remain polite, courteous, respectful and constructivethroughout 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 yourpeers 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'sGiT repository.
- Double-check that the GiT repository belongs to the studentor 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 youand make you evaluate something other than the content of the official repository.

evaluatorand 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.

Δ	tta	ch	m	en	tc
	LLA				

☐ Subject (https://cdn.intra.42.fr/pdf/pdf/1281/init.en.pdf)	·)
☐ Sujet (https://cdn.intra.42.fr/pdf/pdf/750/init.fr.pdf)	
Follow Slash16 around the wo	orld
The student has followed Slash16 on Linkedin, Facebook an	nd Twitter The
student has followed Slash16 on Linkedin, Facebook and Twi	itter
□ Yes	
	□ 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:

lo0 gif0 stf0 en0 en1 en2 en3 p2p0 awdl0 bridge0 \$>		
□ Yes	□ No	
Identify the IP address of the Ethernet interface		
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 00:00:00:00:00:00 inet 42.42.42.42 netmask 0xffffff00 broadcast 42.42.42.255 nd6 options=1 media: autoselect (1000baseT) status: active \$>		
□Yes	□ 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	□No	
Identifiy the default gateway in the routing table		

\$>sh 04

default 42.42.42.42 UGSc 19 16 en0

Check that the answer file contains the command which identifies and

displays the default gateway in the routing table. For instance:

□ Yes	□ No
Identify the IP address of the DNS server which answers	to slash16.org
Check that the answer file contains the command which identifies and displays the IP address of the DNS server. For instance:	or
\$>`cat 05` Server:10.51.1.42 Address:10.51.1.42	
Non-authoritative answer: Name:slash16.org Address: 195.154.52.157 Name:slash16.org Address: 195.154.52.158 \$>	
□Yes	□ No
Get the complete path of the file that contains the IP add	dress of the DNS server you're using
Check that the answer file contains the complete path of which the IP address of the used DNS server is written.	the file in
\$>cat 05 /etc/resolv.conf \$>	
□Yes	□ 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

Address: 195.154.52.157			
Name:slash16.org			
Address: 195.154.52.158			
\$>			
	□ Yes	[□No
Find the provider of slash1	l6.org		
Check that student's answe	er in the file is AWS (Amazon V	Veb Services).	
	□ Yes	[□ No
	_ 103	·	
Find the external IP of 42.1	fr		
Check that student's answe	er in the file is 163.172.250.12	and/or 163.172.250.11	1.
	□ Yes	[□No
Identify the network device	ces between your computer ar	nd the slash16.org dom	nain
Chack that the answer file	contains the command which		
identifies and displays the			
	nd slash16.org. For instance:		
, compared to	g		
\$>`cat 10`			
traceroute to slash16.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			
·	.100 ms 7.587 ms 5.160 ms		
·	1.174) 57.350 ms 168.093 ms 8		·-
·	eytelecom.eu (195.154.1.106) (25 ms
·	1.179) 4.077 ms 46.904 ms 3.8		
\$ pub-1.slash16.org (195.1	.54.52.158) 5.699 ms 6.034 ms	7.032 1115	
Y /			

 \square No

☐ Yes

Name:slash16.org

link between you (local network) and the outside world.	
Check that student's answer in the file is the NAT server.	
□ Yes	□ No
Check that the server with the 10.51.1.253 IP address is reacha	able from your computer.
Check that the answer file contains the command which displays if the IP address is reachable or not. For instance:	
\$>`cat 12` 64 bytes from 10.51.1.253: icmp_seq=0 ttl=62 time=40.663 ms 64 bytes from 10.51.1.253: icmp_seq=1 ttl=62 time=5.024 ms \$>	
□ Yes	□ No
Figure out the server type.	
Check that student's answer in the file is DHCP.	
□ Yes	□ No
Use the Reverse DNS to find out the name of the server linked	to the 10.51.1.81 IP address Check that
student's answer in the file is Idap-proxy.42.fr	
□ Yes	□ No
What file contains the local DNS entries?	
Check that student's answer in the file is /etc/hosts.	
□Yes	
	\square No

Make the 46.19.122.85 address reroute to intra.42.fr		
Check that student's answer in the file is '46.19.122.85 intra.42.fr'.		
□ Yes		
	□ No	
Dart 2 System		
Part 3 - System		
Evaluation of 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		
	□ №	
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 \$>		
4 /		
□Yes		
	□ No	
What file has to be modified to make it permanent?		
Check that student's answer in the file is /etc/hostname.		
□ Yes	□ No	

What command gives your system was last booted?

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 1.4	.0
\$>	
□Yes	□ No
Name the command that determines the state of the SS	H 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; enable	
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	
├—27563 zsh	
└─27589 systemctl status sshd.service	
\$>	
□ Yes	□ No

\$>`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.
□ Yes □ No
Figure out the PID of the SSHD service
Check that the answer file contains the command which

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 \$>

reboot the SSH service. For instance with init.d:

☐ Yes ☐ No

What file contains the RSA keys authorized to connect via SSH? Check		
that student's answer in the file is .ssh/authorized_keys		
□ Yes		
	□ No	
What command lets you know who is connected to the System?		
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 \$>		
□Yes	□ No	
Name the command that lists the partition tables of external devices?		
Check that the answer file contains the command		
which lists the partition tables of external devices. For instance:		

Name the command that displays the available space left on the system?

\$>`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	□ No
Figure out the exact size of each folder of /var	
Check that the answer file contains the command which displays the exact size of each folders of /var. For instance:	
\$>`cat 12` 4.0K /var/opt 864K /var/spool 1.3M /var/log 111M /var/lib 124M /var/cache 4.0K /var/local 8.0K /var/mail 1.1M /var/backups 4.0K /var/tmp 238M /var \$>	
□ Yes	□ No
Name the command that find currently running proces	sses

displays the available space left. For instance:

Check that the answer file contains the command which

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

displays running processes in real time.

For instance:

\$>`cat 13`

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+ COM	ΜΛΝΟ	
1 root 20 0 28740 4760 3064 S 0.0 0.5 0:03.28 systemd	WIAND	
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 0:00.00 ktmcadd		
5 root 0 -20 0 0 0 S 0.0 0.0 0:00.00 kworker/0:0H		
\$>		
7 /		
□ Yes	□ 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:		
FOI IIIstance.		
\$>`cat 14`		
[1] 2660		
Mar 25 06:25:03 rsyslogd: [origin software="rsyslogd" sw\	/ersion="8.4.2" x-pid="330"	
xinfo="http://www.rsyslog.com"] rsyslogd was HUPed		
Mar 25 07:17:01 CRON[2601]: (root) CMD (cd / && run-p	artsreport /etc/cron.hourly)	
Mar 25 08:17:01 CRON[2656]: (root) CMD (cd / && run-p	artsreport /etc/cron.hourly)	
\$>		
□ Yes	□ 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	□No	
	- -	

student's answer in the file is cron.	
□Yes	□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	□ No
With the previous command, authorize only IP addresses fr	rom 10.0.0.0/8 to connect to your system
Check that the answer file contains the command which aut only IP addresses from 10.0.0.0/8 to connect to your system 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

\$>	
□Yes	□ No
With the previous command, forbid all others	
Check that the answer file contains the command	
which forbids all others to connect to your system. For instance:	
\$>`cat 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	
Chain OUTPUT (policy ACCEPT)	
target prot opt source destination	
\$>	
□ Yes	
	\square No

Part 3 - Scripting

target prot opt source destination

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

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 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 gnats:41:/usr/sbin/nologin gnats:41:/usr/sbin/nologin systemd-timesync:100:/bin/false systemd-network:101:/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	□ No

Write a script which updates all the package sources, then all pachages 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

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

```
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 0s (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 (1:2.1.4-2.1+deb8u2) \$>				
Pour vérifier que ce script est en cron :				
<pre>\$>crontab -l 00 4 * * 1 /bin/sh /usr/local/bin/01.sh \$></pre>				
□ Yes	□ No			
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-amd6 33012 /var/lib/apt/lists/httpredir.debian.org_debian_dists amd64_Packages 31764 /var/lib/apt/lists/httpredir.debian.org_debian_dists_jessie				
□ Yes	□ No			

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:

\$>crontab -l

\$>		
□ Yes		□ No
Make a script which displays 42.		
42 Obviously ;)		
□ Yes		□ No
Ratings		
Don't forget to check the flag correspondi	ing to the defense	
	\square Ok	
☐ Empty work	☐ Incomplete work	□ Cheat
Conclusion		
Leave a comment on this evaluation		

Finish evaluation