



Final Exam

Create the following users and groups (5 Marks):

User Name	Full Name	Expiry	Groups
luke	Mark Hammill		falcon, speeder, rebel
han	Harrison Ford		falcon, speeder, rebel
leia	Carrie Fisher	01-01-2125	falcon
obiwan	Alec Guinness	01-01-2125	desert
vader	David Prowse	01-01-2125	deathstar

Set the password for each user to 'starwars' (2 Marks)

Create the following directories: (1 Mark)

1. /home/StarWars/Tatooine
2. /home/StarWars/Falcon
3. /home/StarWars/Falcon/Smuggler
4. /home/StarWars/Destroyer
5. /home/StarWars/Destroyer/DetentionLevel

Create the following files: (1 Mark)

1. /home/StarWars/Falcon/Blaster
2. /home/StarWars/Destroyer/MoffTarkin

Creating and Mounting Filesystems: (10 Marks)

1. Create a 1 Gb partition /dev/sdb1
2. Create a 5 Gb partition /dev/sdb2
3. Format /dev/sdb1 as vfat
4. Format /dev/sdb2 as ext4
5. Mount /dev/sdb1 at /home/StarWars/Tatooine
6. Mount /dev/sdb2 at /home/StarWars/Destroyer/DetentionLevel



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Linux Volume Management (10 Marks)

1. Create 1 partition on /dev/sdc
 - a. use all drive space
 - b. mark it for use by LVM
2. Create 1 partition on /dev/sdd
 - a. use all drive space
 - b. mark it for use by LVM
3. Create physical volumes from the newly partitioned drives
4. Create a volume group named **vg_starwars** using both physical volumes
5. Create a logical volume named **lv_starwars** using entire available volume group space
6. Format the logical volume as ext4
7. Mount the logical volume at /home/StarWars/Falcon/Smuggler

Set the following permissions: (5 Marks)

Directory/File	Owner	Group	Permissions
/home/StarWars	root	root	rwXrwxr-x
/home/StarWars/Falcon	han	rebel	rwXrwx---
/home/StarWars/Destroyer	root	deathstar	rwXrwxr-x
/home/StarWars/Falcon/Blaster	han	falcon	r-xr-x---
/home/StarWars/Destroyer/MoffTarkin	vader	deathstar	r--r-----



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Find: (6 Marks)

1. Find all files in /scripts/work
 - a. that begin with “warp” (case insensitive)
 - b. use the -exec option copy them to /home/StarWarsThere should be 1 file copied
2. Use the same find (without exec)
 - a. pipe the output through nl
 - b. redirect the final output to /home/StarWars/warp.txtThere should be 1 line

Grep: (5 Marks)

1. Grep all the files in the /scripts/work directory
 - a. Look for the string “host” at the beginning of the line
Pipe the output through nl
 - b. You should get 5 lines of output
 - c. Redirect the output to /home/StarWars/host.txt

tar and cron: (7 Marks)

1. Using tar, create /tmp/starwars.tar.gz which contains the content of /home/StarWars (2 Marks)
2. Create a cron job using sudo that will backup the contents of the /home/StarWars (3 Marks)
 - a. runs every night at 11 PM
 - b. creates /home/StarWars/StarWars-YYMMDD.tar.gz
 - c. YYMMDD must be replaced with the current date
3. Create a cron job that will ping www.cambriancollege.ca five times every fifteen minutes (2 Marks)



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Installing Software (3 Marks)

install from file /scripts/moon-buggy_1.0.51-9.1_amd64.deb
install the package nmap

Submit

```
cd /scripts  
sudo wget http://35.202.223.126/scripts/final-check-04.sh  
sudo chmod 777 final-check-04.sh  
sudo ./final-check-04.sh
```