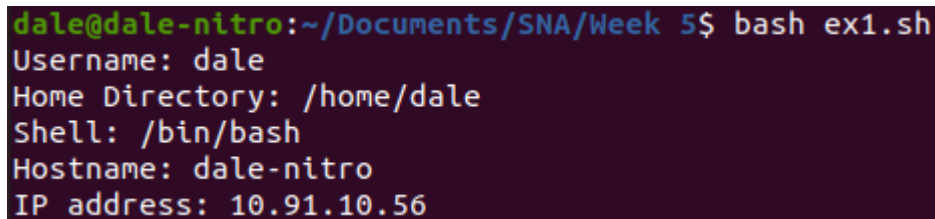


# Damir Nabiullin - Lab 5

## Answers:

1. I used such bash script:

```
#!/bin/bash
echo "Username: $USER"
echo "Home Directory: $HOME"
echo "Shell: $SHELL"
echo "Hostname: $HOSTNAME"
ipaddress=$(ip -o -4 addr list wlp8s0 | awk '{print $4}' | cut -d/ -f1)
echo "IP address: $ipaddress"
```



```
dale@dale-nitro:~/Documents/SNA/Week 5$ bash ex1.sh
Username: dale
Home Directory: /home/dale
Shell: /bin/bash
Hostname: dale-nitro
IP address: 10.91.10.56
```

2. As my system has a lot of files and projects i decided to use such directory for backup: `/home/dale/Documents/SNA`

I used such bash script (to backup home directory - switch /home/dale/... to \$HOME):

```
#!/bin/bash
newdir="$"/backups"
if [ ! -d "$newdir" ]
then
    `mkdir $newdir`
fi
backupdate=$(date +%b_%d_%Y_%H_%M_%S)
tar -zcvpf $newdir/home_backup_$backupdate.tar.gz /home/dale/Documents/SNA
```

```
dale@dale-nitro:~/Documents/SNA/Week 5$ sudo bash ex2.sh
tar: Removing leading `/' from member names
/home/dale/Documents/SNA/
/home/dale/Documents/SNA/Week 4/
/home/dale/Documents/SNA/Week 4/Damir_Nabiullin_-_Lab_4.pdf
/home/dale/Documents/SNA/Week 4/test.txt
/home/dale/Documents/SNA/Week 4/server-data.log
/home/dale/Documents/SNA/Week 4/newlog.log
/home/dale/Documents/SNA/Week 4/log.txt
/home/dale/Documents/SNA/Week 2/
/home/dale/Documents/SNA/Week 1/
/home/dale/Documents/SNA/Week 1/Damir_Nabiullin_-_Lab_1.pdf
/home/dale/Documents/SNA/Week 3/
/home/dale/Documents/SNA/Week 3/Damir_Nabiullin_-_Lab_3.pdf
/home/dale/Documents/SNA/README.md
/home/dale/Documents/SNA/.git/
/home/dale/Documents/SNA/.git/objects/
/home/dale/Documents/SNA/.git/objects/65/
/home/dale/Documents/SNA/.git/objects/65/afb86d4d4e2042d9ab3d79e275ac65b625f6be
/home/dale/Documents/SNA/.git/objects/a2/
```

Let us look that we have the same permissions:

```
dale@dale-nitro:~/Documents/SNA/Week 5$ sudo tar xvzf /backups/home_backup_Sep_26_2022_14_04_53.tar.gz
home/dale/Documents/SNA/
home/dale/Documents/SNA/Week 4/
home/dale/Documents/SNA/Week 4/Damir_Nabiullin_-_Lab_4.pdf
home/dale/Documents/SNA/Week 4/test.txt
home/dale/Documents/SNA/Week 4/server-data.log
home/dale/Documents/SNA/Week 4/newlog.log
home/dale/Documents/SNA/Week 4/log.txt
home/dale/Documents/SNA/Week 2/
home/dale/Documents/SNA/Week 1/
home/dale/Documents/SNA/Week 1/Damir_Nabiullin_-_Lab_1.pdf
home/dale/Documents/SNA/Week 3/
home/dale/Documents/SNA/Week 3/Damir_Nabiullin_-_Lab_3.pdf
home/dale/Documents/SNA/README.md
home/dale/Documents/SNA/.git/
home/dale/Documents/SNA/.git/objects/
home/dale/Documents/SNA/.git/objects/65/
home/dale/Documents/SNA/.git/objects/65/afb86d4d4e2042d9ab3d79e275ac65b625f6be
home/dale/Documents/SNA/.git/objects/a2/
```

I unzipped my backup

```
dale@dale-nitro:~/Documents/SNA/Week 5$ ls -lh /home/dale/Documents/SNA/Week\ 4/log.txt
-rw-rw-r-- 1 dale dale 551 Sep 24 22:34 '/home/dale/Documents/SNA/Week 4/log.txt'
dale@dale-nitro:~/Documents/SNA/Week 5$ ls -lh ./home/dale/Documents/SNA/Week\ 4/log.txt
-rw-rw-r-- 1 dale dale 551 Sep 24 22:34 './home/dale/Documents/SNA/Week 4/log.txt'
```

I checked that access of file in unzipped directory is equal to access in real directory

3. I used such script:

```
#!/bin/bash
for file in $(find / -type f -wholename '*bin/bash*' 2>/dev/null); do
    if [[ -x $file ]] ; then
        echo $file
    fi
done
```

```
dale@dale-nitro:~/Documents/SNA/Week 5$ bash ex3.sh
/snap/core18/2566/bin/bash
/snap/core18/2566/usr/bin/bashbug
/snap/core18/2560/bin/bash
/snap/core18/2560/usr/bin/bashbug
/snap/core20/1611/usr/bin/bash
/snap/core20/1611/usr/bin/bashbug
/snap/core20/1623/usr/bin/bash
/snap/core20/1623/usr/bin/bashbug
/snap/core22/188/usr/bin/bash
/snap/core22/188/usr/bin/bashbug
/snap/core22/275/usr/bin/bash
/snap/core22/275/usr/bin/bashbug
/snap/core/13425/bin/bash
/snap/core/13425/usr/bin/bashbug
/snap/core/13741/bin/bash
/snap/core/13741/usr/bin/bashbug
/usr/bin/bash
/usr/bin/bashbug
```