

# Linux Administration and Basic Shell Scripting

## Practice

### Answer Key

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## 1 Basic Command Exercises: Answers

1. `ls -la`
2. `mkdir /projects`
3. First create the file (if needed), then remove it: `touch old_file.txt && rm old_file.txt`
4. `cp /notes.txt /projects/`
5. `mv draft.txt /projects/`
6. `man mkdir`
7. `gzip data.txt` (Creates `data.txt.gz`)
8. `ps aux | grep firefox`
9. `pkill unresponsive_app`
10. `sudo mount /dev/sdb1 /mnt` (Ensure `/mnt` exists first)

## 2 Basic Shell Scripting Exercises: Answers

1. `backup.sh`:  

```
#!/bin/bash
mkdir -p backup
cp *.txt backup/
```
2. `cleanup.sh`:  

```
#!/bin/bash
rm *.tmp
```

3. archive.sh:

```
#!/bin/bash
tar -czvf archive.tar.gz $1
```

4. disk\_info.sh:

```
#!/bin/bash
udisksctl status
```

5. kill\_process.sh:

```
#!/bin/bash
pkill -f $1
```