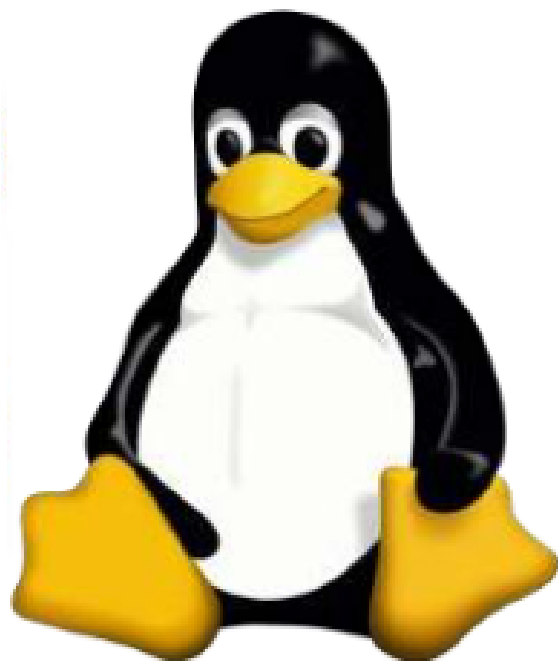




# CS2000 – Laboratory 05

## Backup and Recovery



## Task 1- Backup and Recovery -Linux



This lab experiment is on using “Duplicity” for backup and recovery in Ubuntu Server.

Duplicity is a software suite that provides encrypted, digitally signed, versioned, remote backup of files requiring little of the remote server. Duplicity devises a scheme where the first archive is a complete (full) backup, and subsequent (incremental) backups only add differences from the latest full or incremental backup.

### Backup

The best way to store a backup is to use a remote location (server, hard disk or cloud) but in the lab experiment we use a local location.

1. Create a directory for backup

```
sudo mkdir /mnt/backups
```

2. Install Duplicity

```
sudo apt-get install duplicity
```

3. Take a full backup of home directory to local location:

```
sudo duplicity full /home/cs file:///mnt/backups
```

Use **netacad** for GnuPG passphrase

4. Take an Incremental backup to local location:

```
sudo duplicity incr /home/cs file:///mnt/backups
```

5. List the files stored in the archive:

```
sudo duplicity list-current-files file:///mnt/backups
```

## Restore

Now suppose you accidentally delete /home/cs/ and want to restore it the way it was at the time of last backup.netacad

6. Create a directory to restore the backup:

```
sudo mkdir /home/restore
```

7. Full Restore from archive

```
sudo duplicity --encrypt-key="netacad" file:///mnt/backups /home/restore
```

8. Delete all backup older than 1 hour.

```
sudo duplicity remove-older-than 1h --encrypt-key="netacad" --force  
file:///mnt/backups
```

9. Remove /home/restore folder

```
sudo rm -r /home/restore
```

## Backup-GUI

Duplicity is Ubuntu server's default backup software package. It also has a graphical user interface. Do the same procedure you done in CLI using the GUI application.

Write the steps and add screen shots.

**Note:** If you get an error when trying to run the backup via the GUI, be aware that there is a bug with the software – just look through the options and write your steps from this. You do not have to complete this section.