

Piping and Redirection



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Exam Objectives



Use input-output redirection



Demo



Redirection of STDOUT

Using noclobber

Redirection of STDERR

Reading into STDIN

Here documents

Using command pipelines

Using named pipes

Using tee



Demo: STDOUT



Demo: noclobber



Demo: STDERR



Demo: STDIN



Demo: Here Documents



Demo: Command Pipelines



Demo: Named Pipes



Demo: Using tee



```
$ > file1
```

```
$ ls > file1
```

```
$ ls 1> file1
```

```
$ ls 1>> file1
```

Redirection of STDOUT



```
$ set -o noclobber
```

```
$ ls >| file1
```

Preventing Overwrites



```
find /etc -type l 2> /dev/null
```

```
find /etc -type l &> file1
```

Redirecting Errors



```
df -h1T > diskfree
```

```
mail -s "Disk free" tux < diskfree
```

Reading from Files



```
cat > newfile <<END
```

- This is a new file
- And is created on the
- Command line or scripts
- END

Using HERE Documents




```
cut -f7 -d: /etc/passwd | sort | uniq
```

Pipelines



```
mkfifo mypipe
```

```
ls > mypipe
```

```
wc -l < mypipe
```

Named Pipes



```
ls | tee file1
```

Using tee



Next Up: Archiving Files

