

Search for Files by Name

```
find {startingDirectory} -name {filename}
```

Finds all files which match the specified name starting from the starting directory specified

Search for Files by Name (Case insensitive)

```
find {startingDirectory} -iname {filename}
```

Finds all files which match the specified name starting from the starting directory specified. Case insensitive

Search for Files by extension

```
find {startingDirectory} -type f -name "*. {extension}"
```

Finds all files with the specified file extension starting from the specified starting directory

Search for Files by permissions

```
find {startingDirectory} -type f -perm {permissions} -print
```

Find all files from the starting directory with the permissions specified (in 4-digit octal format, e.g. 0777)

Search for Directories by Name

```
find {startingDirectory} -type d -name {name}
```

Find all directories which match the specified name, from the starting directory

Send stderr to /dev/null

```
find {startingDirectory} -name {filename} 2>/dev/null
```

Sends all errors to /dev/null

Send filter out "Permission denied" results

```
find {startingDirectory} -name {filename} 2>&1 | grep -v  
"Permission denied"
```

Filters out any "Permission denied" results

Search for Files by Contents

```
grep -rs '{searchTerm}' {startingDirectory}
```

Finds all files which contain the specified search term. Suppresses errors

Search for Files by Contents and file extension (show lines)

```
grep -rs '{searchTerm}' --  
include=*.{extension1},{extension2} /
```

Finds all files which contain the specified search term and have a file extension provided in the list. Suppresses errors. Shows the file name, path, and identified lines

Search for Files by Contents and file extension (show file name & path only)

```
grep -rns '{searchTerm}' --  
include=*.{extension1},{extension2} /
```

Finds all files which contain the specified search term and have a file extension provided in the list. Suppresses errors. Shows only the file name and path, and not the identified lines

View File Contents

```
cat {filename}
```

Shows the contents of the file

Create File

```
echo {fileContents} > {filename}
```

Shows the contents of the file

View system information

```
uname -a
```

Shows system information including OS version, kernel, hostname. Other flags can be used to see specific information only

Show Network Information

```
ifconfig  
ip addr  
ip -br -c a
```

Shows network information with various levels of detail