



## Linux Administration Notes

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# 1 File Management

## 1.1 File Permissions

**File Permissions** are used to prevent unauthorized access by users to files and directories

## 1.2 Permission Classes

**Permission Classes** unique categorizes utilized by the kernel to maintain file security via access rights.

Users are assigned to 3 categories:

1. **User (u)**
2. **Group (g)**
3. **Other (o)**
4. **All (a)** - represents all 3 classes

## 1.3 Permission Types

There are 3 types of permission bits:

1. **Read (r)** - view and copy
2. **Write (w)** - modify
3. **Execute (x)** - run
4. **null (-)** - permission not granted

## 1.4 Permission Modes

1. Append permission bit (+)
2. Revoke permission bit (-)
3. Assign permission bit (=)