SUDO [SUPER USER DO]

* SUDO allows a user to run programs as super user(root). Normal users can’t execute all programs by default. For this we use SUDO, if we give permission for a specific program to a specific user. After that, by placing SUDO in-front of that cmd normal user can execute that program.
* You can specify which services (or) programs to be executed by which users by mentioning in a file.
* Main config file = **/etc/sudoers** and **visudo**. Use visudo, because only one user can edit this file at a time which is best for security concerns.
* All cmds executed by sudo users are stored in **/var/log/secure**. If you want you can change. By making an entry in sudores file at the bottom --> **Defaults logfile = /var/log/filename**.
* By default, root has all privileges, if you want to give all privileges for a user.
* Go to visudo,

**Root ALL=(ALL) ALL …add a line with the user below this line.**

* To give full access to group. Go to visudo,

**Wheel ALL= (ALL) ALL…add a line with the group below this line.**

* To allow user and group without prompting password. Go to visudo,

**Wheel ALL= (ALL) NOPASSWD: ALL…add a line with the user below this line.**

* To restrict a user (or) a group for only specific programs. First, find the full path of the cmd and add those paths in visudo file in the place of ALL.

**User ALL=(ALL) path of cmds (separate with , if you have multiple).**

* In visudo file, there will be command aliases for specific type of cmds like NETWORKING, DISKMGMT etc. You can just type the alias name instead of all those cmd paths.

**User ALL=(ALL) NETWORKING(separate with , if you have multiple).**

* You can also create your own aliases in visudo file. First, find full paths of cmds and add a line in visudo file.
* To create our own aliases. Go to visudo and add a line after cmnd\_alias section,

**Cmnd\_Alias REDDY = full path of cmds separated with ,(reddy = alias name).**

* You can also create aliases. Go to visudo and add a line in user\_alias section,

**User\_Alias ADMIN = usernames separated with , (ADMIN = alias name).**