

Administering Group with gpasswd command

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives

We will learn to



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We will learn to

- **Set group administrator**



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- Set group member



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- Set group administrator
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- Add and delete user



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- Set group administrator
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- Remove password of a group



Learning Objectives

We will learn to

- Set group administrator
- Set group member
- Add and delete user
- Remove password of a group
- Restrict access of a group



System Requirements



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- **Ubuntu Linux 16.04 OS**



Pre-requisites

- **Please go through earlier Linux System Administration tutorials on <http://spoken-tutorial.org/>**



Pre-requisites

- **Please go through earlier Linux System Administration tutorials on <http://spoken-tutorial.org/>**
- **You must have root access to your computer**



- We already know that we can use `gpasswd` command to set the password for a group



- We already know that we can use `gpasswd` command to set the password for a group
- It can also be used to add members, delete members, give administrative rights, etc.



- **The syntax is:**

```
gpsswd [option] groupname
```



- The syntax is:

```
gpasswd [option] groupname
```

- Here option field is not mandatory



Add Five Users:

We will add five new users to the system using `adduser` command

Username	Password	Name
abhishek	pass_abhishek	Abhishek
ashok	pass_ashok	Ashok
anushka	pass_anushka	Anushka
asha	pass_asha	Asha
anshu	pass_anshu	Anshu



Group Administrator



Group Administrator

- Who can add and remove users from that group



Group Administrator

- Who can add and remove users from that group
- Change the password of the group



Group Administrator

- Who can add and remove users from that group
- Change the password of the group
- There can be more than one administrator for a group



Group Member



Group Member

- Can access the group without being prompted for a password



Group Member

- Can access the group without being prompted for a password
- We specify administrators and members as lists of usernames



System Administrator Can Use

- **-A: To add one or more group administrator(s)**



System Administrator Can Use

- **-A: To add one or more group administrator(s)**
- **-M: To add one or more group member(s)**



System Administrator Can Use

- **-A: To add one or more group administrator(s)**
- **-M: To add one or more group member(s)**
- **Can use both -A and -M together in a single command**



Add a New User in the group

- **Do not use `-M` to add a new member to the existing member list**



Add a New User in the group

- Do not use `-M` to add a new member to the existing member list
- It will replace the existing member list



Add a New User in the group

- We have `-a` option for this purpose



Add a New User in the group

- We have `-a` option for this purpose
- A user can be added to a group by a super user or a group administrator



Remove a User from Group

- **-d option for this purpose**



Remove a User from Group

- **-d option for this purpose**
- **This option can be used to delete one user at a time**



Remove a User from Group

- **-d option for this purpose**
- **This option can be used to delete one user at a time**
- **Both super user or group administrator can remove a user from the group**



Restrict the access to a group

- Only group members will be allowed to use `newgrp` command to join the group



Restrict the access to a group

- Only group members will be allowed to use `newgrp` command to join the group
- For this, we have to use `-R` option



Note while using gpasswd

- **Except for -A and -M options, others options cannot be combined**



Note while using gpasswd

- **Except for `-A` and `-M` options, others options cannot be combined**
- **Group administrator does not have permission to use `gpasswd` command with `-A` or `-M`**



Summary

In this tutorial we learnt about

- **Set group administrator**
- **Set group member**
- **Add and delete user**
- **Remove password of a group**
- **Restrict access of a group**



Assignment

- **Create a new group** nanotech
- **Create four users:** rajesh, sumita, anjan **and** chandan
- **Set rajesh as administrator of group** nanotech
- **Set sumita and anjan as members**



Assignment

- **Add user chandan to the group**
- **Remove sumita from the group**
- **Check if user sumita can login to the group**
- **At every step, check the entry in /etc/gshadow file**



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



Forum for specific questions

- Do you have questions in **THIS Spoken Tutorial?**
- Please visit <http://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- Someone from our team will answer them



Acknowledgements

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- More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>



Thank You

Thanks for joining
<http://spoken-tutorial.org>

