

User Password Management

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 about



Learning Objectives

We will learn about

- **Changing user password**



Learning Objectives

We will learn about

- Changing user password
- Locking and unlocking password



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- Changing user password
- Locking and unlocking password
- Password removal



Learning Objectives

We will learn about

- Changing user password
- Locking and unlocking password
- Password removal
- Changing password expiry information



System Requirements



System Requirements

- **Ubuntu Linux 16.04 OS**



Pre-requisites



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- 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



passwd command



passwd command

- **passwd command is used to change the password of users**



passwd command

- **passwd command is used to change the password of users**
- **Created user amit**



passwd command

- passwd command is used to change the password of users
- Created user amit
- Reset the password



Changing root password

- **Need to change the password for the root account itself**



Changing root password

- Need to change the password for the root account itself
- Type passwd and press Enter



Changing root password

- Need to change the password for the root account itself
- Type `passwd` and press Enter
- When prompted, you should type your new password and press Enter



Changing root password(Cont.)

- Prompt you to type the password once again



Changing root password(Cont.)

- Prompt you to type the password once again
- Retype the same password and press Enter



Changing root password(Cont.)

- Prompt you to type the password once again
- Retype the same password and press Enter
- **Get a message that the password has been updated successfully**



Password Status Information

- Password status information related to a user account can be displayed, as well



Password Status Information

- Password status information related to a user account can be displayed, as well
- **This is done by using `passwd -S` (hyphen capital S) with the `passwd` command**



passwd -S output

```
amit P 01/16/2019 0 99999 7 -1
```



passwd -S output

```
amit P 01/16/2019 0 99999 7 -1
```

- The first field is username



passwd -S output

```
amit P 01/16/2019 0 99999 7 -1
```

- The second field indicates



passwd -S output

amit P 01/16/2019 0 99999 7 -1

- **The second field indicates**
 - **L: Locked password**



passwd -S output

amit **P** 01/16/2019 0 99999 7 -1

- **The second field indicates**
 - **L:** Locked password
 - **NP:** No password



passwd -S output

amit **P** 01/16/2019 0 99999 7 -1

- **The second field indicates**
 - **L:** Locked password
 - **NP:** No password
 - **P:** Usable password



passwd -S output(Cont.)

```
amit P 01/16/2019 0 99999 7 -1
```

- **The third field gives the date of the last password change**



passwd -S output(Cont.)

```
amit P 01/16/2019 0 99999 7 -1
```



passwd -S output(Cont.)

```
amit P 01/16/2019 0 99999 7 -1
```

Fourth to seventh fields indicate password expiry information



passwd -S output(Cont.)

```
amit P 01/16/2019 0 99999 7 -1
```

Fourth to seventh fields indicate
password expiry information

- **Minimum age**



passwd -S output(Cont.)

```
amit P 01/16/2019 0 99999 7 -1
```

Fourth to seventh fields indicate
password expiry information

- **Minimum age**
- **Maximum age**



passwd -S output(Cont.)

amit P 01/16/2019 0 99999 7 -1

Fourth to seventh fields indicate
password expiry information

- **Minimum age**
- **Maximum age**
- **Warning period**



passwd -S output(Cont.)

amit P 01/16/2019 0 99999 7 -1

Fourth to seventh fields indicate
password expiry information

- Minimum age
- Maximum age
- Warning period
- Inactivity period



Password lock

- This will not disable the user account



Password lock

- This will not disable the user account
- It will simply lock the password



Password lock

- This will not disable the user account
- It will simply lock the password
- User cannot use this password to login to the system



Password lock

- This will not disable the user account
- It will simply lock the password
- User cannot use this password to login to the system
- User cannot change the password



Password lock(Cont.)

- User can still login to the user account by any other mechanism



Password lock(Cont.)

- User can still login to the user account by any other mechanism
- Which does not refer to passwd file



Password lock(Cont.)

- User can still login to the user account by any other mechanism
- Which does not refer to `passwd` file
- Ex: ssh key authentication



Display password expiry information



Display password expiry information

- To display the user's password expiry information, we had used `passwd -S` option



Display password expiry information

- To display the user's password expiry information, we had used `passwd -S` option
- `chage -l`



Expire Password Immediately

- How can we force the user to change their password during their next login?



Expire Password Immediately

- How can we force the user to change their password during their next login?
- `passwd -e`



Password Inactivity Period

- User's password has expired



Password Inactivity Period

- User's password has expired
- After password expiry, you can give the user a grace period



Password Inactivity Period

- User's password has expired
- After password expiry, you can give the user a grace period
- User will be able to change the login password within that grace period



Password Inactivity Period(Cont.)

- Otherwise, the user account will be disabled permanently



Password Inactivity Period(Cont.)

- Otherwise, the user account will be disabled permanently
- That grace period is called period of inactivity



Password Inactivity Period(Cont.)

- Otherwise, the user account will be disabled permanently
- That grace period is called period of inactivity
- Set this inactivity period with the help of `-i` option



Summary

In this tutorial we learnt about

- Changing password
- Locking and unlocking password
- Password removal
- Changing password expiry information



Assignment

Change password expiry information for user `amit` as follows

- Minimum number of days between password change: 20 days
- Maximum number of days between password change: 100 days
- Period of inactivity: 5 days



Assignment(Cont.)

- Use a single command to execute all of the above
- Check the password expiry information by using `chage` command
- Check password status by using `passwd` command with required option



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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- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at:

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



Thank You

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

