

Creating User Account

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Antara Roy Choudhury

Praveen S

IIT Bombay

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Learning Objectives

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- **Creating user account with different options**



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- `/etc/passwd` file



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- **Creating user account with different options**
- `/etc/passwd` **file**
- `/etc/shadow` **file**



System Requirements



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- **Ubuntu Linux 16.04 OS**



Pre-requisites

- You should have gone through the Linux tutorial series on <http://spoken-tutorial.org/>



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- You should have gone through the Linux tutorial series on <http://spoken-tutorial.org/>
- You must have root access to the computer



Syntax of adduser command



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To add a user using the following command

- `adduser [option] username`



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- `adduser [option] username`
- **The option field is not mandatory**



Syntax of adduser command

To add a user using the following command

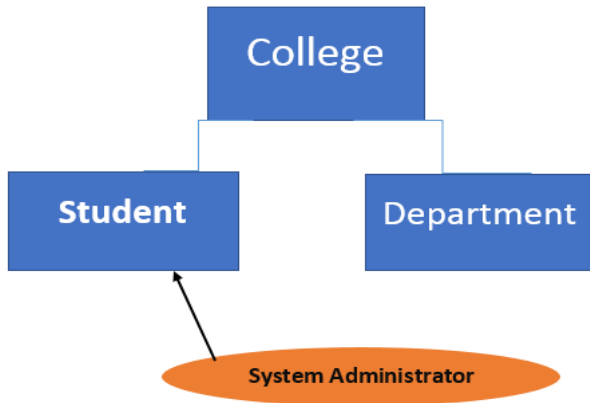
- `adduser [option] username`
- **The option field is not mandatory**
- **We will elaborate on the option field in this tutorial**



Scenario of College



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Need of Option field

Requirements:

- Customized user ID or group



Need of Option field

Requirements:

- Customized user ID or group
- Home directory other than the default one



Need of Option field

Requirements:

- Customized user ID or group
- Home directory other than the default one
- Change the default login shell



Option field(Cont.)

- **adduser supports options for each of these requirements**



Option field(Cont.)

- **adduser supports options for each of these requirements**
- **Combine multiple options to set multiple values in a single command**



Options

- **-u: set user ID or UID**



Options

- **-u: set user ID or UID**
- **-home: set user home directory**



Options

- **-u: set user ID or UID**
- **-home: set user home directory**
- **-shell: set login shell for the user**



Options

- **-u: set user ID or UID**
- **-home: set user home directory**
- **-shell: set login shell for the user**
- **-c: mention comments**



Example

Add user kaushik

- **User ID** - 1050
- **Home directory** - /home/testdir
- **Login shell** - /bin/sh
- **Comments** - Kaushik is a re-registered student



/etc/passwd file

- All configuration files are stored in simple text files



/etc/passwd file

- All configuration files are stored in simple text files
- /etc/passwd file contains entire information about all the user accounts



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- **First field: username**



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- First field: **username**
- Username: should start with a lowercase letter



Sample entry in `/etc/passwd`

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Followed by any number of lowercase letters or digits



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Followed by any number of lowercase letters or digits
- No special character other than underscore is allowed in the username



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Second field: password



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Second field: **password**
- x character: The **encrypted hash password** is stored in the file
/etc/shadow



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Third field: user ID for the user



Sample entry in `/etc/passwd`

`amit:x:1001:1001:Amit,,:/home/amit:/bin/bash`

- Third field: **user ID** for the user
- User id 0: root user



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Third field: **user ID** for the user
- User id 0: root user
- User ids upto 999: Other administrative or system users



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Real user account id starts from 1000



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Real user account id starts from 1000
- Specify a number more than 1000 in adduser command



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Fourth field: primary group id for the user



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,:/home/amit:/bin/bash

- Fourth field: **primary group id** for the user
- At fifth place: **comments field**



Sample entry in /etc/passwd

amit:x:1001:1001:Amit,,,:/home/amit:/bin/bash

- Sixth field: home directory



Sample entry in /etc/passwd

`amit:x:1001:1001:Amit,,:/home/amit:/bin/bash`

- Sixth field: **home directory**
- **At the end:** **login shell**



Summary

We learnt about

- **Creating user account with different options like**
 - Specific user id
 - Specific Home Directory
 - Specific shell
- **Adding Comments**



Summary

We also learnt about some of the fields in the

- `/etc/passwd` file
- `/etc/shadow` file



Assignment

Create user ankit with

- User ID as 1500
- Home directory named `ankit_newdir`
- Login shell as `/bin/csh`



Assignment(Cont.)

Create user ankit with

- Include comment `Hostel 15`
- Use a single command to perform all the tasks
- Check `/etc/passwd` file for the details of user account `ankit`



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



Forum for specific questions:

- The Spoken Tutorial forum is for specific questions on this tutorial
- Please do not post unrelated and general questions on them
- This will help reduce the clutter
- With less clutter, we can use these discussion as instructional material



Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- 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>

