

Course: Linux

Course Code: Linux

Session: 2018-19

Duration: 4 Months

Assessment procedures: Proctored certification Exam (100%)

Curriculum of the Course:

Introduction to Linux - Novice

1. Ubuntu desktop
 - Ubuntu Desktop
 - Main Menu
 - System Tray
 - Trash Bin icon (RHS corner)
 - Desktop icon (LHS corner), pen-drive
2. Synaptic package manager
 - Synaptic Package Manager
 - How to install packages
3. Ubuntu software system
 - Ubuntu-Software-Center
 - Installing softwares through Ubuntu Software Center
4. Basic Commands
 - Commands with example
 - Command interpreter
 - Shell
 - Using man
 - Apropos
 - Whatis
 - Using --help option
5. General Purpose Utilities in Linux
 - echo
 - uname
 - who
 - passwd
 - date
 - cal

- Brief overview on Files and directories
- pwd
- ls
- cat

6. File System

- File
- Directory
- File Inode
- Types of Files
- Home directory and Current directory
- Change Directory(cd)
- mkdir,rmdir

7. Working with Regular Files

- cat
- rm
- cp
- mv
- cmp
- wc

8. File Attributes

- chown, chmod, chmod -R, displaying files with ls -l
- chmod u+, chmod a-w, chmod g+w, chmod -r, chgrp
- inode, hard link, symbolic link

9. Redirection Pipes

- Input,output and error stream
- Redirection : > and >>
- Pipes : |

10. Working with Linux Process

- Process
- Shell process
- Process spawning - parent and child process
- Process attributes - pid, ppid
- Init Process
- User process & System process
- ps with options

11. The Linux Environment

- Environment variable vs Local variables
- set command
- env command
- SHELL, HOME, PATH, LOGNAME, PS1, PS2
- history
- ! and ~
- alias

12. Basics of System Administration

- Root login-su
- User management - UID, GID, useradd, usermod, userdel
- Discs – Du, df

13. Simple filters

- Head
- tail
- sort
- cut
- paste

Introduction to Linux - Intermediate

1. The grep command

- To see the content of a file
- To list the entries of a particular stream
- To ignore cases
- Lines that do not match the pattern
- To list the line numbers with the entries
- To store the result in another file
- To know the count

2. More on grep command

- Search using grep
- To match more than one pattern
- To check a word that has different spelling
- Character class
- The use of *
- To match any one character using dot
- To match a pattern at the beginning of the file
- To match a pattern at the end of the file

3. The sed command
 - sed
 - To print using sed
 - Line Addressing
 - Context Addressing
4. More on sed command
 - substitute
 - insert
 - delete

List of students enrolled

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49	Ishan Goyal
50	Jahnvi Sachdeva
51	Jaladh Singhal
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82	Nimit Gogorya
83	Nitesh Garg
84	Parmanand Saraswat
85	Piyush Jindal
86	Piyush Saraf
87	Piyush Sharma
88	Prachi Jain
89	Pradeep Yadav
90	Pragati Jain
91	Prakhar Manak Bohara
92	Prateek Agrawal
93	Pratyush Khandelwal
94	Prince Jain
95	Priyansh Gupta
96	Puneet Manghwani
97	Punit Jain
98	Radhika Choudhary
99	Raghav Agrawal
100	Raghav Paliwal
101	Rahul Sharma
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103	Rahul Singh

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106	Ritesh Porwal
107	Rohit Jain
108	Rohit Kucheria
109	Sachin Kumar
110	Satyam Lahoty
111	Saurabh Yadav
112	Shailesh Goyal
113	Sharad Pareek
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115	Shashank Meel
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117	Shivani Jethliya
118	Shivani Kumawat
119	Shorya Upadhayay
120	Shrey Bhargava
121	Shreyansh Agarwal
122	Shubham Sharma
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125	Sourabh Agarwal
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130	Tarunn Bishnoi
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132	Tushar Verma
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138	Vinay Sharma
139	Vinit Swami
140	Vishnu Jangid
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148	Ankur Sanadhya
149	Apurv Agarwal
150	Archit Gupta
151	Archit Sharma
152	Aryan Bhargava
153	Ayush Agarwal
154	Ayush Dev
155	Bharat Jain
156	Deepak Yadav
157	Deepank Jain
158	Devendra Sharma
159	Dhairya Sharma
160	Gagan Gupta
161	Gaurav Biyani
162	Harsh Agrawal
163	Harshit Jhalani
164	Himanshu Somani
165	Jahanvi Jain
166	Jaikishan Didwania
167	Kashish Bansal
168	Kaushal Sharma
169	Khushi Goyal
170	Khushi Jain
171	Kritika Lakhera
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174	Nikhil Vaswani
175	Nipun Goyal
176	Prateek Saluja
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232	Pulkit Garhwal
233	Pulkit Verma
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238	Rohit Agrawal
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240	Saksham Sharma
241	Sanyam Audhichya
242	Shantanu Dongre
243	Sneha Mathur
244	Sudhanshu Sawnani
245	Suraj Shrivastava
246	Sushant Singh
247	Tushar Thanvi
248	Ujjwal Garg
249	Varsha Yadav
250	Vikas Maurya
251	Yash Wadhwa
252	Yash Saxena
253	Yogesh Saini
254	Srishty Arora
255	Krishnesh Khalora
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259	Anuj Sharma
260	Kavya Prasannan
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262	Shubham Gupta
263	Nikhil Sharma
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265	Sanyog Sharma
266	Sarthak Arora
267	Rahul Tak
268	Surbhi Nair
269	Trinzya Gupta
270	Sumitra Jhanwar
271	Kishita Gupta
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274	Abhishek Agarwal
275	Dhruva Chhipa
276	Amit Rawat
277	Ankit Saini
278	Chahat Bhatia
279	Vidhi Kulshrestha
280	Priyal Goyal
281	Rahul Varlani
282	Pragya Kumari
283	Darshan Mohan Tak
284	Sarthak Joshi
285	Vishavadeep Shekhawat