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Linux System Administration

Co	n	t o	ท	ts

Unit No.	Unit	Pages
Unit-1	Introduction:	1-20
Unit-2	Introduction to Linux, Basic idea on proprietary, Open Source, Free Software etc <i>Variants of Linux/GNU:</i>	21-43
	Introduction of Various Linux Distribution (Red Hat Enterprise Linux, Cent OS,	
	Fedora Projects, Debian Linux, Ubuntu, etc.), GNU-Linux connection.	
Unit-3	Architecture:	44-61
	Basic Architecture of Unix/Linux system, kernel, shell.	
Unit-4	File System:	62-76
	Linux File System, Boot block, Super block, Inode table, Data blocks, Khow	
	Linux access files, storage files, Linux standard directories, LILO,GRUB boot	
	Loader.	
Unit-5	Installation:	77-93
	Installation of Linux system, Using Live CD, Virtual Machine, Direct Installation Partitioning the Hard drive for Linux, init and run levels.	
Unit-6	Getting started with Linux:	94-108
	Login process, Creating Users Account and Group, Getting Help. Services and Process.	
Unit-7	File in Linux:	109-125
	Files and File System, File Types and Permissions, Links, Size and Space, Date and Time.	
Unit-8	Working with file	126-142
	Reading Files, Searching for files, Copying, Moving, Renaming, Deleting, Linking, and Editing Files	
Unit-9	File Commands in Linux:	143-162
	ls, rm, rmdir, pwd, more ,less. grep, awt, sort, cat, head, tail, wc, tee, ps, top, tar, unzip, nice, kill, netstat, Disk related commands, checking disk free spaces	

Unit-10	Programming with shell script:	163-188
	Various types of Shell available in Linux, Comparisons between various Shells,	
	Shell programming in bash, Read command, Conditional and looping statements,	
	Case statements, Parameter passing and arguments, Shell variables, System shell	
	variables, Shell keywords, Creating Shell programs for performing various tasks.	
Unit-11	System Administration:	189-210
	Common administrative tasks, identifying administrative files - configuration and	
	log files, Managing user accounts-adding & deleting users, changing permissions	
	and ownerships, Creating and managing groups, modifying group attributes.	
Unit-12	User Accounts:	211-230
	Temporary disable user's accounts, creating and mounting file system, checking	
	and monitoring system performance file security & Permissions, becoming super	
	user using su.	
Unit-13	Getting system information:	
	Getting system information with uname, host name, disk partitions & sizes, users,	231-253
	kernel, Backup and restore files, reconfiguration hardware with kudzu, installing	
	and removing packages in Linux.	
Unit-14	Introduction to X-windows system:	254-280
	Configure X-windows starting & using X desktop, KDE & Gnome graphical	
	interfaces, changing X windows settingse.	
Unit-15	Linux Networking:	281-304
	Installation and configuration of a simple LAN, Installation and configuration of	
	Proxy server(Squid).	
Unit-16	Introduction to Server:	305-333
	DNS server (BIND), Mail server, Web server (Apache), File server (Samba),	
	DHCP server, Installation and configuration of a SSH server and client,	
	Installation and configuration of FTP server and client.	