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LinuxCBT is a unique and revolutionary approach to teaching the Linux operating system. Traditional training outlets do not compare because they tend to deliver canned certification courses, which means little to serious IT-professionals and savvy hiring managers. Our Linux training solution, LinuxCBT, is unparalleled in content, depth and expertise. LinuxCBT prepares you or your organization for successfully deploying and managing business-critical RedHat Linux-based desktop and server solutions. Let LinuxCBT teach you what traditional training outlets and other CBTs do not; real RedHat Linux skills!

LinuxCBT includes both Client Management and Server Management Components.

Recommended Prerequisites for:

LinuxCBT Client Management Component

Open mind & determination to master Linux and related open-source applications

Basic MS Windows skills

Basic understanding of networking concepts

Access to a spare PC to perform all of the installations and exercises in LinuxCBT

LinuxCBT Server Management Component

Completion of LinuxCBT client management component

Open mind, time-committment & determination to master business-critical Linux skills

Access to a spare PC to perform all of the installations and exercises in LinuxCBT

Linux Client/Desktop Management – Discs 1 – 6 – Duration: 30 hours

Introduction to the GNU/Linux operating system – Basics – Disc 1

Discussion of the Free Software Foundation's efforts to deliver ubiquitous UNIX!

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Emphasize the role and importance of the GNU project  
Identification of various Linux distributors including Debian, Mandrake, RedHat, etc.  
Introduction to the widely-used RedHat Linux distribution  
Explore Linux system documentation (man, info, GNOME, etc.)  
Explain the Filesystem Hierarchy Standard (FHS) – UNIX is one big directory!  
Explore the RedHat Linux file system  
Identify the various interfaces to Linux  
Discuss the role and release rules of the Linux Kernel  
Demonstrate usage of file & directory tools (pwd, ls, cd, touch, cp, mkdir, mv, rm, which, rpm)  
Basic BASH shell navigation & PATH & variable manipulation (set,unset,env,export,etc.)  
Explore usage of common user-tools (cat, echo, find, locate)  
Demonstrate typical usage of vi/vim ASCII text editors  
Installation & implementation of pine mail reader and pico text editor  
Demonstrate typical usage of the king of all UNIX/Linux editors; EMACS  
Explain & demonstrate standard in, standard out, redirection & pipes  
Demonstrate usage of backup/restore tools (tar, gzip, gunzip)  
Identify basic utilities and RedHat package memberships  
Demonstrate usage of system monitoring tools (uptime, free, top, vmstat, meminfo, cpuinfo, ps, kill, watch)  
Identify the various types of files on Linux systems  
Identify Filesystem tools (fsck, fdisk, mkfs, parted)  
Mounting/unmounting basic Linux floppy, CD & ISO files  
Identification of major online open source repositories (sourceforge, freshmeat, etc.)

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Perform client Installations of RedHat 9 – Disc 2  
Planning the installation – identify software, hardware requirements & disk partitioning defaults  
Demonstrate complete upgrade from RedHat 8 to RedHat 9 & explain caveats  
Demonstrate complete client installation of RedHat 9 from bootable CD  
Create RedHat 9 network-based source-tree on a centralized server for installation  
Prepare for network-based FTP installation of RedHat 9 – create bootable media/obtain patches/etc.  
Demonstrate complete client installation from FTP server  
Prepare for network-based Kickstart automated installation via Network File System (NFS)  
Create Kickstart installation source tree  
Perform Kickstart automated installation via NFS

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Post client installation acclimation, exploration and configuration – Disc 3  
Discuss X-Windows client/server concepts, applications & security  
Learn how to configure X-Windows to support your hardware

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- Discussion of window management concepts and applications
- Customize desktop environment for GNOME & usage
- Customize desktop environment for KDE & usage
- Explore the shell interface including common tools, utilities, semantics, etc.
- Implement Mozilla web browser
- Configure the Java JRE as a plug-in for the Mozilla web browser and evaluate results
- Implement Java Runtime Environment (JRE/J2SE) for system-wide access to Java applets/etc.
- Implement Macromedia Flash plug-in and configure support in Mozilla and evaluate results
- Download & Install Netscape web browser
- Configure Java & Flash support for Netscape and evaluate results
- Implement Ximian Evolution POP3/IMAP/Microsoft Exchange email client
- Implement & explore RDESKTOP terminal services desktop connectivity to Windows 2003/2000/XP servers running Remote Desktop Protocol (RDP)
- Demonstrate typical RDESKTOP Windows usage for productivity, multitasking and connectivity
- Upgrade RDESKTOP to version 1.3.1 & Remove RDESKTOP 1.2.x
- Demonstrate some of the new capabilities of RDESKTOP 1.3.1
- Troubleshoot common X-Windows and client-related problems
- Implement AT&T's VNC server screen emulation program for multiple remote desktop access

top

- Linux client network administration essential concepts and applications – Disc 4
- User and group creation & management concepts – passwd, shadow, group, gshadow files
- Compile and install John The Ripper Password Cracking tool
- Validate password integrity with John The Ripper Password Cracking Tool
- Explain UNIX/Linux file security & permissions (-rwxrwxrwx/777) rules & concepts
- Discuss and demonstrate the client/server paradigm and distributed computing concepts
- Identify & demonstrate usage of common client/server tools(SSH/HTTP/FTP/IMAP/POP3/SAMBA/etc.)
- Demonstrate LFTP (Sophisticated FTP Client Software) usage
- Use LFTP to connect to FTP & HTTP servers
- Use LFTP to recover broken uploaded/downloaded transmissions
- Use LFTP to mirror & reverse mirror the content of local and remote servers
- Linux networking primer – Identify key Linux networking components
- Implement DHCP IP addressing with Cisco PIX Firewall DHCP Server integration
- Configure Linux client for DHCP configuration from a Cisco PIX firewall
- Configure Linux client with static TCP/IP parameters for network communication

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Test network connectivity internally and externally via ICMP & TCP–Port querying methodologies  
Explore all RedHat graphical redhat-\* & redhat-config-\* configuration tools  
Configure Network Time Protocol (NTP) via GUI & Shell interface to perform time synchronization  
Discuss and implement Samba(SMB) connectivity to Windows 2003 Server  
Implement client printing services via Common UNIX Printing System (CUPS) to Windows 2003 Server & HP JetDirect–enabled printer.  
Discuss and implement NFS connectivity to Linux hosts and Windows 2003(NFS)  
Evaluate RedHat Package Manager (RPM) to add/upgrade/remove applications  
Discuss & demonstrate Backup & Restoration procedures  
Discuss scenarios and create Linux Rescue disk for emergency system recovery

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Linux Server Management – Discs 5 – 10 – Duration: 40 hours

Perform Server Installations of RedHat 9 – Disc 5  
Prepare for server installation of RedHat 9 – verify system BIOS parameters/support  
Demonstrate complete server installation from bootable CD–ROM  
Demonstrate creation of RedHat 9 installation source tree for network–based installations  
Demonstrate complete server installation from an Apache HTTP Web server  
Demonstrate complete custom server installation from HTTP Windows 2003 IIS server  
Demonstrate complete custom server installation from FTP server  
Demonstrate complete custom server installation from NFS server  
Prepare for an automated Kickstart installation – identify requirements  
Demonstrate complete server Kickstart automated installation from HTTP Apache Web server  
Demonstrate complete server Kickstart automated installation from FTP Apache Web server  
Connect RedHat system via serial communications to Sun Fire V100 SPARC box  
Prepare RedHat System with Kermit Terminal Emulation to install Debian Linux  
Connect to remote RedHat system and Install Debian Linux 3.x on Sun System  
Complete installation of Debian Linux 3.x SPARC edition on headless Sun box  
Recap installation methods including caveats  
top  
Linux Systems Management Concepts & Applications – Disc 6  
Explain Linux Boot process and contrast boot managers – GRUB & LILO  
Discuss the role of the init grandfather process and illustrate logical boot flow

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Explain and demonstrate Runlevel (0 – 6) concepts & applications  
Demonstrate Daemon/Service management with  
(chkconfig/ntsysv/redhat-config-services)  
User profile implementation logic and concepts – (Bash  
profile/etc/skel/aliases/PATH/etc.)  
Quota management – user-based, group-based and disk-based quota  
implementation  
Introduce, partition using FDISK and create an EXT3 journaling file  
system of 100GB of additional system storage. Identify partitions in  
/proc virtual file system.  
Discuss RedHat Package Manager (RPM) concepts, features and  
applications  
Demonstrate usage of RPM to ascertain available packages  
Demonstrate usage of RPM to import public keys of package publishers  
Demonstrate usage of RPM to verify the integrity of downloaded  
packages  
Demonstrate usage of RPM to add new packages locally  
Demonstrate usage of RPM to add new packages from a Windows 2003 FTP  
server  
Demonstrate usage of RPM to add new packages from an HTTP server  
Demonstrate usage of RPM to upgrade packages  
Demonstrate usage of RPM to freshen packages  
Demonstrate usage of RPM to remove packages  
Introduction to SYSLOG concepts  
Explanation of syslog facilities & levels  
Demonstrate syslog administration  
Demonstrate Cisco to Linux SYSLOG functionality  
Discuss & demonstrate automatic log rotation and customization  
Demonstrate Linux Kernel upgrade procedures  
Use RPM to install multiple kernels and verify functionality  
Use RPM to remove outdated kernels

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Linux Network Administration Essentials – Disc 7

Discuss & demonstrate the usage of commonly used networking tools:

PING – Demonstrate PING flooding of remote hosts – ICMP Attack  
Techniques

PING – Cisco PIX Integration & Debugging of ICMP Echo Requests/Echo  
Replies

Traceroute – Cisco PIX Integration & provisioning of ICMP traffic  
types

MTR (PING & Traceroute functionality) plus Cisco PIX debugging of ICMP  
data flow

ARP

NETSTAT/LSOF

IFCONFIG

Route

DIG & NSLOOKUP

Whois

Who, w, wc, last, cat, grep, vi, pico, head, tail, etc.

Message of the day banners (MOTD), /etc/issue file (pre-login

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banner/display info.)

Implement Dynamic Host Configuration Protocol (DHCP) services

Explain the various steps of the DHCP process

Configure global & scope-level DHCP options

Configure IP reservations based on layer 2 MAC addresses

Disable Cisco PIX DHCP services

Enable Linux DHCP services

Configure Windows 2003/XP/Linux clients to receive dynamic addresses from Linux

Discuss Xinetd super server concepts and applications

Identify services controlled by Xinetd

Enable & disable Xinetd-controlled services & examine results

Implement access control on Xinetd controlled services

Implement Xinetd IP and port-level daemon redirection

Discuss Xinetd & TCP Wrappers relationship and dual-layer security benefits

Implement Very Secure VSFTPD File Transfer Protocol (FTP) services

Implement anonymous FTPD

Implement user-level FTPD access

Implement FTPD banners

Disable anonymous access

Configure VSFTPD to run under the auspices of Xinetd super server for increased security

Implement bandwidth rate-limiting to control bandwidth usage

Discuss Linux & Windows Integration via Samba

Install Samba support

Install Samba Web-based Administration Tool (SWAT)

Configure Samba file & print sharing on RedHat 9

Evaluate access to RedHat 9 Samba file & print server

Configure Samba Windows Internet Name Server (WINS) support

Evaluate Windows XP/2003 client access to RedHat 9 Samba-WINS server

Discuss the Network File System (NFS) concepts and Linux support

Implement the NFS daemon

Review /etc/exports parameters and options

Evaluate access to NFS exports

Implement NFS connectivity across a WAN connection via IPSEC VPN-connectivity

Discuss the CRON scheduling system concepts and application

Identify various predefined CRON entries and schedules

Define custom cron jobs system-wide

Define custom cron jobs user-wide

Evaluate results of cron jobs

Implement the Berkeley Internet Daemon (BIND) Domain Name Server (DNS)

Implement BIND 9.x

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- Configure BIND as a caching-only DNS server
- Test caching-only name resolution from Windows 2003 & Linux hosts
- Secure access to caching-only/recursive name server via ACLs
- Configure BIND as a primary DNS server
- Test primary name resolution from Windows 2003 & Linux hosts
- Configure BIND as a secondary(slave) DNS server
- Restrict communications between primary & secondary DNS servers
- Implement updates between master and secondary DNS servers via IPSEC VPN
- Configure DNS zones on Linux BIND & Windows 2003 DNS – activate replication
- Implement poor man's load balancing using DNS round robin
- Evaluate results of BIND configuration using DIG
- Configure DNS zones
- Configure zone transfers
- Configure secure-zone transfers
- Evaluate BIND's configuration files named.conf & named.custom
- Configure BIND sub-domain delegation. i.e. internal.linuxcbt.net
- Configure BIND to support reverse domains
- Configure Linux/Windows 2003 clients to use Linux BIND DNS server
- DNS Transaction Signatures (TSIG) implementation
- Identify BIND logging information for troubleshooting purposes
- Configure BIND DNS with IP Aliasing (Sub-Interfaces) to host DNS on separate IP address

- Implement Network Monitoring & Graphing tools using SNMP, etc.
- Implement Multi Router Traffic Grapher (MRTG)
- Graph Cisco Firewall with MRTG
- Implement Cacti Network Graphing Tool
- Download and Install Cacti and required components (RRDTool, MySQL, etc.)
- Explore Cacti Interface, options, etc.
- Graph Cisco, Linux & Windows 2003 resources with Cacti using SNMP & Scripts

- Implement Network Time Protocol (NTP) & Time Synchronization services for local subnets
- Discuss features and distributed nature of the hierarchial NTP service
- Ascertain and select optimal Stratum 1 NTP servers for synchronization
- Review default NTP configuration
- Configure NTP to synchronize with NTP servers
- Configure internal Linux clients to synchornize with internal Stratum 2 NTP server
- Configure Cisco PIX firewall to synchronize with internal Stratum 2 NTP server
- Use NTP-related tools such as NTPQ, NTPTRACE to ascertain NTP-related information

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- Linux Web Services – Apache/Tomcat/CGI/WebLogic – Disc 8
- Discuss Apache Web Server's history, ubiquity (netcraft stats) and

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reliability

Explain Apache Web Server's capabilities (Virtual directories, modules, WebDav, etc.)

Implementation of Apache Web Server 2.x on RedHat 9

Evaluate installation/implementation results of Apache Web Server 2.x

Demonstrate implementation of aliases & redirects via mod\_alias

Restrict access to aliases and test access from Linux & Windows 2003 nodes

Examine implications of alias & redirect access on access & error logs from multiple hosts

Demonstrate implementation of virtual directories

Demonstrate configuration of several virtual hosts

Discuss and implement Apache 2.x logging system per virtual host

Configure basic authentication to virtual hosts containers via .htaccess & Directory directives

Configure digest authentication to virtual hosts containers via Directory & .htaccess directives

Configure SSL support for the virtual hosts

Demonstrate SSL support without certificate provided by Certificate Authority

Implementation of Webalizer Log Analysis software

Customization of Webalizer to automatically generate reports for multiple virtual hosts

Implementation of AWSTATS Log Analysis software

Customization of AWSTATS to automatically generate reports for multiple virtual hosts

Dynamic web sites – Common Gateway Interface(CGI) & scripting engine discussion & implementation

Implement CGI access to Linux via Apache & PERL scripts

Discuss benefits of PHP Dynamic Web Access Scripting Engine

Implementation of PHP Dynamic Web Access Scripting Engine

Evaluate PHP Dynamic Web Access Scripting Engine installation results

Execute sample PHP web pages on Apache Web Server 2.x

Application Servers – Java J2EE Platform integration with Linux

Discuss benefits of Apache Tomcat Dynamic Web Scripting(JSP)/Java Servlet Engine

Implementation of Sun's Java Development Kit (JDK) 1.4.x for Apache Tomcat support

Implementation of Apache Tomcat Dynamic Web Scripting(JSP)/Java Servlet Engine

Evaluate Apache Tomcat Dynamic Web Scripting(JSP)/Java Servlet Engine installation results

Execute sample Apache Tomcat Dynamic Web Scripting(JSP)/Java Servlet applications

Discuss benefits of BEA Weblogic JSP/Servlet/Enterprise Java Beans Engine

Implementation of BEA Weblogic JSP/Servlet/Enterprise Java Beans Engine

Evaluation of BEA Weblogic JSP/Servlet/Enterprise Java Beans Engine

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results

Execute sample applications on BEA Weblogic JSP/Servlet/Enterprise Java Beans Engine

Discuss benefits of Jboss J2EE JSP/Servlet/Enterprise Java Beans Engine

Implementation of Jboss JSP/Servlet/Enterprise Java Beans Engine

Evaluation of Jboss JSP/Servlet/Enterprise Java Beans Engine results

Execute sample applications on Jboss JSP/Servlet/Enterprise Java Beans Engine

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Linux Messaging Essentials & applications – Disc 9

Discussion of messaging concepts and applications

Sendmail MTA Essentials

Introduction to Sendmail Message Transfer Agent (MTA)

Implementation of Sendmail

Configure Sendmail to relay messages for remote hosts

Configure Sendmail to support virtual hosts/multiple domains

Evaluate results of routing messages to multiple domains using Sendmail

Sendmail logging capabilities

Implement AWSTATS log reporting engine to generate HTML sendmail reports

Postfix MTA Essentials

Introduction to the Postfix Message Transfer Agent (MTA)

Install Postfix on local RedHat system

Install RedHat Mail Transfer Agent (MTA) administrative switching tools

Switch RedHat system from Sendmail to Postfix as default MTA

Explore Postfix configuration files and directory structure

Implement outbound messages via Postfix

Confirm receipt of outbound messages on publicly-accessible systems

Configure Postfix to support virtual domains

Build Postfix virtual user mappings for virtual domains support

Test virtual domains via external messaging sources

Post Office Protocol Version 3 Essentials

Discuss the capabilities and limitations of POP3

Implement POP3 services

Implement secure POP3 services

Demonstrate access to POP3 services from the client perspective

Implement Secure POP3 services using SSL with self-signed certificate

Internet Messaging Access Protocol (IMAP)

Discuss the capabilities and limitations of IMAP

Implement IMAP services

Demonstrate access to IMAP services from the client perspective

Implement Secure IMAP services using SSL with self-signed certificate

Web-based Mail Implementation using Squirrel-mail

Describe required squirrel mail components for web-mail integration

Install squirrel mail on Internet production system

Configure squirrel mail defaults for linuxcbt.net domain

Verify Sendmail virtual hosting configuration for linuxcbt.net domain

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- Verify IMAP configuration
- Configure Apache alias for squirrel mail integration
- Configure Apache Virtual Host for squirrel mail integration
- Configure BIND DNS services for squirrel mail integration
- Explore squirrel mail's web-based interface
- Generate mail from various remote domains (hotmail.com, etc.) and retrieve with squirrel mail

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Linux Concepts/Offensive/Defensive Security Implementation Techniques

– Disc 10

Secure Shell (SSH) Concepts & Implementation

SSH client concepts – replacement for clear-text-based Telnet, RCP, FTP protocols.

Identification of required OpenSSH/OpenSSL components

Demonstrate SSH connectivity & public key registration

Implement globally-shared public keys

Generate RSA & DSA public key/private key pairs

Configure SSH client and SSHD to authenticate via public/private key pairs

Authenticate to remote hosts using public/private key pairs

Use Secure Copy (SCP) to move files

Port Forwarding implementation

Port Forwarding integration with Linux & Windows 2003 Server

X11 Forwarding demonstration

Use Secure File Transfer Protocol (SFTP) to move files

Linux Defensive Security Implementation Techniques

Implement NMAP port scanner and demonstrate usage to ascertain open doors

Discuss & demonstrate operating system fingerprinting techniques with NMAP

Demonstrate IP-spoofing & packet forging with NMAP

Discuss the benefits of the NESSUS Security & vulnerability scanner

Implement Nessus client/server Security vulnerability scanner

Demonstrate parallel security scanning of local & remote subnets

Explore Nessus's reporting capabilities (NBE/XML/HTML/etc.)

Demonstrate Nessus class-based access for corporate usage

Implement Ethereal network sniffer

Demonstrate telnet clear-text password theft with Ethereal

Demonstrate alternative SSH encrypted sessions with Ethereal

Demonstrate FTP clear-text password theft with Ethereal

Demonstrate alternative SFTP encrypted sessions with Ethereal

Implement HPING highly customizable packet forging tool

Compare & contrast PING with HPING

Demonstrate IP packet spoofing with HPING & Cisco PIX firewall integration

Demonstrate HPING's ability to communicate with ICMP-filtered Internet servers

Demonstrate using HPING to setup a trojan horse backdoor for executing arbitrary code

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- Implement John the Ripper password cracking tool
- Discuss file and directory security
- Implement chmod, chown, umask, SUID, SGID, etc.

Linux Defensive Security Implementation Techniques

- Implement Multi-Router Traffic Grapher (MRTG) to establish network performance baseline
- Configure Cisco PIX firewall for MRTG support via Simple Network Management Protocol (SNMP)
- Configure MRTG to generate performance & bandwidth-related graphs for Cisco PIX firewall
- Implement IP Tables Host-based firewall support
- Configure IP Tables to restrict access to necessary services
- Introduce, discuss & plan the implementation of Snort 2.0 Intrusion Detection System (IDS)
- Discuss Snort intrusion detection concepts related to hubs & switches
- Install Snort 2.0 Network-based Intrusion Detection System
- Implement Snort 2.0 network sniffing functionality
- Implement Snort 2.0 sniffing & packet-logging functionality
- Demonstrate Snort's ability to monitor traffic between designated hosts
- Demonstrate password theft using Snort & FTP connections
- Demonstrate password theft using Snort & Apache HTTP basic authentication connections
- Implement Snort 2.0 Network-based Intrusion Detection System
- Implement SnortSnarf for web-based reporting of Snort 2.0 logs
- Examine SnortSnarf reports via SSL-enabled web session
- Demonstrate how to implement port mirroring on Cisco Catalyst switches
- Implement Network Address Translation (NAT)
- Discuss & Implement Port Address Translation (PAT)
- Implement TCP Wrappers
- Configure Xinetd to suppress access to the system from port-scanners
- Discuss & Disable Portmap services
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