

Curso Administrador de Servidores de Red LINUX para Empresas

Descripción: Este curso as cubre una amplia gama de servicios de red útiles para todas las organizaciones.

Se pone énfasis a los conceptos necesarios para implementar estos servicios de forma segura, y para adquirir habilidades para la solución de problemas que serán necesarios para la administración de estos servicios de red.

El material del curso está diseñado para proporcionar una amplia experiencia práctica. Los temas incluyen: Seguridad con SELinux y Netfilter, conceptos DNS e implementación con Bind; Conceptos LDAP e implementación usando OpenLDAP; Servicios Web con Apache; FTP con vsftpd; el almacenamiento en caché, filtrado de proxies con Squid; SMB / CIFS (redes Windows) con Samba; y los conceptos de correo electrónico e implementación con Postfix combinado con Dovecot o Cyrus.

Audiencia: Administradores de Linux que necesitan configurar o gestionar servidores de red.

Prerrequisitos: Los estudiantes deben conocer Linux básico o administración UNIX, y tener una buena comprensión de los conceptos de red, también se supone que conocen sobre el conjunto de protocolos TCP / IP.

Duración: 35 hrs.

Contenido

Chapter 1. Securing Services

- Xinetd
- Xinetd Connection Limiting and Access Control
- Xinetd: Resource limits, redirection, logging
- TCP Wrappers
- The /etc/hosts.allow & /etc/hosts.deny Files
- /etc/hosts.{allow,deny} Shortcuts
- Advanced TCP Wrappers
- Basic Firewall Activation
- Netfilter: Stateful Packet Filter Firewall
- Netfilter Concepts
- Using the iptables Command
- Netfilter Rule Syntax
- Targets
- Common match_specs
- Connection Tracking
- AppArmor
- SELinux Security Framework
- Choosing an SELinux Policy
- SELinux Commands
- SELinux Booleans
- Graphical SELinux Policy Tools

Chapter 2. DNS Concepts

- Naming Services
- DNS - A Better Way
- The Domain Name Space
- Delegation and Zones
- Server Roles
- Resolving Names
- Resolving IP Addresses
- Basic BIND Administration
- Configuring the Resolver
- Testing Resolution

Chapter 3. Configuring Bind

- BIND Configuration Files
- named.conf Syntax
- named.conf Options Block
- Creating a Site-Wide Cache
- rndc Key Configuration
- Zones In named.conf
- Zone Database File Syntax
- SOA - Start of Authority
- A & PTR - Address & Pointer Records
- NS - Name Server
- CNAME & MX - Alias & Mail Host
- Abbreviations and Gotchas
- \$ORIGIN and \$GENERATE

Chapter 4. Creating DNS Hierarchies

- Subdomains and Delegation
- Subdomains
- Delegating Zones
- in-addr.arpa. Delegation
- Issues with in-addr.arpa.
- RFC2317 & in-addr.arpa.

Chapter 5. Advanced Bind DNS Features

- Address Match Lists & ACLs
- Split Namespace with Views
- Restricting Queries
- Restricting Zone Transfers
- Running BIND in a chroot jail
- Dynamic DNS Concepts
- Allowing Dynamic DNS Updates
- DDNS Administration with nsupdate
- Common Problems
- Common Problems
- Securing DNS with TSIG

Chapter 6. LDAP Concepts and Clients

- LDAP: History and Uses
- LDAP: Data Model Basics
- LDAP: Protocol Basics
- LDAP: Applications
- LDAP: Search Filters
- LDIF: LDAP Data Interchange Format
- OpenLDAP Client Tools
- Alternative LDAP Tools

Chapter 7. OpenLDAP Servers

- Popular LDAP Server Implementations
- OpenLDAP: Server Architecture
- OpenLDAP: Backends
- OpenLDAP: Replication
- OpenLDAP: Configuration Options
- OpenLDAP: Configuration Sections
- OpenLDAP: Global Parameters
- OpenLDAP: Database Parameters
- OpenLDAP Server Tools
- Enabling LDAP-based Login
- System Security Services Daemon (SSSD)

Chapter 8. Using Apache

- HTTP Operation
- Apache Architecture
- Dynamic Shared Objects
- Adding Modules to Apache
- Apache Configuration Files
- httpd.conf - Server Settings
- httpd.conf - Main Configuration
- HTTP Virtual Servers
- Virtual Hosting DNS Implications
- httpd.conf – VirtualHost Configuration
- Port and IP based Virtual Hosts
- Name-based Virtual Host
- Apache Logging
- Log Analysis
- The Webalizer

Chapter 9. Apache Security

- Virtual Hosting Security Implications
- Delegating Administration
- Directory Protection
- Directory Protection with AllowOverride
- Common Uses for .htaccess
- Symmetric Encryption Algorithms
- Asymmetric Encryption Algorithms
- Digital Certificates
- SSL Using mod_ssl.so

Chapter 10. Apache Server-Side Scripting Administration

- Dynamic HTTP Content
- PHP: Hypertext Preprocessor
- Developer Tools for PHP
- Installing PHP
- Configuring PHP
- Securing PHP
- Security Related php.ini Configuration
- Java Servlets and JSP
- Apache's Tomcat
- Installing Java SDK
- Installing Tomcat Manually
- Using Tomcat with Apache

Chapter 11. Implementing an FTP server

- The FTP Protocol
- Active Mode FTP
- Passive Mode FTP
- ProFTPD
- Pure-FTPd
- vsftpd
- Configuring vsftpd
- Anonymous FTP with vsftpd

Chapter 12. The Squid Proxy Server

- Squid Overview
- Squid File Layout
- Squid Access Control Lists
- Applying Squid ACLs
- Tuning Squid & Configuring Cache Hierarchies
- Bandwidth Metering
- Monitoring Squid
- Proxy Client Configuration

Chapter 13. Samba Concepts and Configuration

- Introducing Samba
- Samba Daemons
- NetBIOS and NetBEUI
- Accessing Windows/Samba Shares from Linux
- Samba Utilities
- Samba Configuration Files
- The smb.conf File
- Mapping Permissions and ACLs
- Mapping Linux Concepts
- Mapping Case Sensitivity
- Mapping Users
- Sharing Home Directories
- Sharing Printers
- Share Authentication
- Share-Level Access
- User-Level Access
- Samba Account Database
- User Share Restrictions

Chapter 14. SMTP Theory

- SMTP
- SMTP Terminology
- SMTP Architecture
- SMTP Commands
- SMTP Extensions
- SMTP AUTH
- SMTP STARTTLS
- SMTP Session

Chapter 15. POSTFIX

- Postfix Features
- Postfix Architecture
- Postfix Components
- Postfix Configuration
- master.cf
- main.cf
- Postfix Map Types
- Postfix Pattern Matching
- Advanced Postfix Options
- Virtual Domains
- Postfix Mail Filtering
- Configuration Commands
- Management Commands
- Postfix Logging
- Logfile Analysis
- chrooting Postfix
- Postfix, Relaying and SMTP UTH
- SMTP AUTH Server and Relay Control
- SMTP AUTH Clients
- Postfix / TLS
- TLS Server Configuration
- Postfix Client Configuration for TLS
- Other TLS Clients
- Ensuring TLS Security

Chapter 16. Mail Services and Retrieval

- Filtering Email
- Procmail
- SpamAssassin
- Bogofilter
- amavisd-new Mail Filtering
- Accessing Email
- The IMAP4 Protocol
- Dovecot POP3/IMAP Server
- Cyrus IMAP/POP3 Server
- Cyrus IMAP MTA Integration
- Cyrus Mailbox Administration
- Fetchmail
- SquirrelMail
- Mailing Lists
- GNU Mailman
- Mailman Configuration

DCInternet

Formas de pago:

Este pago debe realizarse en una sola exhibición de las siguientes maneras:

- ❖ Depósito en Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V. (CLABE en caso de transferencia electrónica vía Internet 002180057549232394).
- ❖ Cheque a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V.

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