

LINUX NETWORK SERVER ADMINISTRATION

Objetivo: Este curso ayuda a los alumnos con experiencia en la administración de Linux a desarrollar habilidades avanzadas para configurar y administrar un servidor Linux en red seguro. Los alumnos aprenderán a usar el sistema RPM para crear sus propios RPMs tanto para empaquetar su propio software para distribución estandarizada y para reconstruir paquetes existentes de RPMs. Realizarán prácticas para configurar y ejecutar servicios de red esenciales, incluyendo DNS, NIS, DHCP, FTP, SSH, NTP, Samba, HTTP, Email y LDAP. Finalmente, ese curso introduce importantes componentes de la seguridad en Linux, tales como criptografía, Kerberos, SELinux y seguridad en red. Uno de los mejores contenidos del mercado.

Audiencia: Administradores con experiencia en Linux que necesiten instalar servidores de red seguros a nivel empresarial.

Prerrequisitos: Administración de Linux.

Contenido

1.- REBUILDING PACKAGES

- The Red Hat Package Manager
- Why Create Your Own RPMs
- Building RPMs
- Packaging Open Source Software
- The Build Process
- Spec File
- Spec File: Preamble (Header) Section
- Spec File: %Prep Section
- Spec File: %build Section
- Spec File: %install Section
- Spec File: %clean Section
- Spec File: Scriptlets Section
- Spec File: %files Section
- Spec File: %changelog Section
- rpmbuild
- Signing RPM Packages - GnuPG
- Testing
- Custom RPM Guidelines

2.- KERBEROS

- Kerberos Principles
- Initial Kerberos Authentication
- Ticket Authentication
- Basic Realm Configuration
- Installing a Master Key Distribution Center
- DNS and Kerberos
- kdc.conf
- kadm5.acl
- kadmin
- Application Servers
- Kerberos Clients
- Troubleshooting Kerberized Services
- Kerberos Security
- Preauthentication
- Ticket Validation
- Trusting Other Realms
- Kerberos Encryption
- Kerberos Service Profile

3.- NETWORK TIME PROTOCOL

- What is NTP?
- NTP Design Structure
- Configuring a NTP Client
- Configuring a NTP Server
- Using NTP in an Enclosed Network
- Specifying Restrictions

4.- SAMBA

- Samba Configuration
- Sharing Files and Directories with Samba
- Sharing Printers with Samba
- Verifying the Configuration File
- Samba accounts
- Starting Samba
- Using the smbclient command
- Mounting Samba Shares

5.- APACHE

- What is Apache?
- Configuring Apache
- The Main Tab
- The Virtual Hosts Tab
- Configuring Virtual Hosts
- Server Settings
- Performance Tuning
- Starting and Stopping the httpd Daemon
- Administering Squid

6.-EMAIL SERVICES

- Mail Configuration
- Mail Protocols
- IMAP/POP3 Configuration
- Mail servers
- Mail User Agent Configuration
- Configuration of Sendmail
- Configuration of PostFix

7.-DNS & BIND

- DNS Overview
- Introduction to BIND
- BIND's Primary Configuration File
- Zone Files
- Using rndc
- Using the GUI-based Tool

8.-DHCP

- Introduction to DHCP
- Setup the DHCP Server
- Syntax of the /etc/dhcpd.conf File
- Global Settings
- Declaring a Subnet
- Shared Networks
- Using allow and deny
- Address Pools
- Additional Settings
- The /var/lib/dhcp/dhcpd.leases File
- Starting dhcpd
- Setting up a DHCP Client

9.-FTP SERVICES

- Setting up a VSFTP Server
- Setting up Anonymous Upload
- FTP Security
- Limiting Access to the VSFTP Server
- Modifying the Banner
- FTP Logging

10.-CRYPTOGRAPHY

- Symmetric Cryptography
- Asymmetric Cryptography
- Network Security
- Cryptographic Tools
- Using OpenSSL
- Cryptographic Hashes
- Using Asymmetric Encryption
- Key Distribution
- Digital Certificates
- Transport Layer Security
- TLS/SSL Handshake
- Creating a RSA Private Key
- Creating a Certificate Signing Request
- Establishing a Certificate Authority
- Managing Certificate Expiration
- Managing a Certificate Revocation List

11.-SECURE SHELL

- Remote Access Weaknesses
- Overview of the Secure Shell
- Configuring the Secure Shell
- User or Group Level Access Control
- Using StrictModes
- Features and Functionality of SSH
- Authentication Methods
- Additional SSH Notes
- Using the Secure Shell Client Commands

12.-SECURING SERVICES

- Sever vulnerabilities
- Securing portmap
- NFS Security
- BIND security
- X Window Server
- The /etc/services file
- Disabling unneeded services
- Kernel network parameters

14.-LDAP

- What is LDAP?
- LDAP terms
- LDAP structure
- Setting up a LDAP server
- Migration tools
- Using the ldapsearch command
- Additional LDAP tools
- Additional LDAP configuration

13.-NIS

- What is NIS?
- Configuring a NIS Server
- Setting up a NIS Client
- NIS Server Configuration
- Configuring NIS Slave Servers

15.-SELINUX

- What is SELinux?
- Setting SELinux Functionality during Installation
- Setting SELinux Functionality after Installation
- The RHEL SELinux policy

DCInternet

Duración aproximada: 35-40 horas (40 cuando se incluye una hora para ir a comer)

Lugar:

Altadena 26 Col. Nápoles México, D. F.

Incluye:

Incluye material original importado del curso en inglés, mochila, descanso de 15 a 20 minutos con galletas, café y refrescos, estacionamiento y diploma de participación en el curso.

Formas de pago:

Este pago puede realizarse de las siguientes maneras:

1. 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)
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