

## Email Server Administration

**Duration:** 24 Hours

### **Overview**

The course on Mail Server Administration from Cloud Systems Limited covers: installation of Postfix, its configuration, integration with MySQL database and security based applications. After completing this course, students will be able to comprehend: the role of Postfix Mail Server, hosting Multiple Domains, configuration of IMAP Server, MySQL with Postfix Mail Server, and email Content Filtering.

### **Prerequisites**

Basic Linux command and administration experience

### **Mail Server Administration Benefits:**

Upon Completion of this Course, you will accomplish following:-

- Comprehend the Postfix Architecture
- Comprehend the Process of Mail Delivery
- Comprehend the Utility Programs
- Comprehend the Lookup Tables
- Understand the Multi/Single MTA Configuration
- Comprehend the Queue tools and Message Queues
- Comprehend the Canonical and Aliases Maps
- Comprehend the configuration of bcc\_maps
- Comprehend the Checking of Mail Header
- Comprehend the Checking of Mail Body
- Comprehend the Configuration of Mailman
- Set up Mailing List
- Comprehend the User and Admin Console
- Comprehend the Administration of Mail List

### **Course Outline:**

#### **Introduction**

- *Linux basic command*
- *Difference between open source and proprietary software e.g exchange*
- *Hardware sizing for email server*
- *Describe Postfix architecture*

#### **DNS Configuration**

- *Why DNS is important for mail server*
- *Describe MX record for email server*
- *Install and Configure DNS*

- *Policy to secure DNS server*

#### **Postfix configuration -1**

- *Important files for postfix configuration*
- *Basic configuration to send and receive email for single domain*
- *Hosting multiple domain for email*

#### **Dovecot -2**

- *Important configuration parameter*
- *Configure dovecot*
- *Configure TLS/SASL for dovecot*

#### **Postfix Configuration -3**

- *Configure postfix server as email gateway*
- *Configure postfix send only email server*

#### **Email server security (Security) -4**

- *Install and configure TLS and SASL for postfix*
- *Email Content Filtering - Content Checking Actions - Mail Header Checking - Mail Body Checking*
- *Configure local RBL and use different existing RBL*
- *Fail2ban configure to protect attract*
- *Postgrey Configuration*
- *Polycied-Weight Configuration*

#### **Email server Security -5**

- *Install and configure Clamav Antivirus*
- *Install and configure Amavis*
- *SpamAssassin Configuration*
- *Install and configure MailScanner*
- *SpamAssassin whitelist / blacklist policy*

#### **Performance Tuning- 6**

- *Performance tuning by changing different parameter in postfix, dovecot*
- *Performance tuning by changing different parameter in system level*
- *Performce tuning by changing different parameter in filtering policy.*

#### **Iptables/ Firewalld -7**

- *Rules to protect email server for internal and external attack*

*Review, practice and feedback*