

**دستورات، کدها، مثال ها و سناریوهای
عملی اجرا شده در مدرک بین المللی
Linux LPIC-3 305 Mail
(Based on Qmail MTA)**



مؤلف: مهندس سید حسین رجاء

Index

Course Objectives.....	17
LPIC-3 305 Mail:.....	17
Chapter 1	19
E-Mail and Qmail Concepts	19
Note:	19
1.2. What is <i>qmail</i> ?.....	19
1.3. Why use <i>qmail</i> ?	20
1.3.1. Security	20
1.3.2. Performance.....	20
1.3.3. Reliability	20
1.3.4. Simplicity	21
1.5. Features	21
1.5.1. Setup	21
1.5.2. Security	21
1.5.3. Message construction	22
1.5.4. SMTP service	22
1.5.5. Queue management	23
1.5.6. Bounces.....	24
1.5.7. Routing by domain.....	24

4	دستورات، کدها، مثال ها و سناریوهای عملی اجرا شده در مدرک بین‌المللی (LPIC-3 305 Mail(Qmail MTA))	
	1.5.8. SMTP delivery	24
	1.5.9. Forwarding and mailing lists	25
	1.5.10. Local delivery	25
	1.5.11. POP3 service	26
	1.9. Comparison with other MTA's	27
	Chapter 2	29
	Qmail Installation	29
	2. Installation	29
	2.1. Installation Issues	30
	2.1.1. Binary vs. source code	30
	2.1.2. Tarball vs. OS-specific package	31
	2.2. Preparation	32
	2.3. System requirements	32
	2.4. Download the source	35
	2.5. Build the source	36
	2.5.1. Verify build environment	36
	2.5.2. Unpack the distribution	37
	2.5.3. Create directories	39
	2.5.4. Create users and groups	40
	2.5.5. Do the build	42
	2.6. Install ucspi-tcp	44
	2.7. Install daemontools	44
	2.8. Start <i>qmail</i>	46
	2.8.1. /var/qmail/rc	46
	2.8.2. System start-up files	49
	2.8.2.1. The qmailctl script	49
	2.8.2.2. The supervise scripts	55

2.8.2.3. SMTP Access Control	59
2.8.3. Stop and disable the installed MTA	59
2.8.4. Create System Aliases.....	62
2.8.5. Start <i>qmail</i>	63
2.9. Test the Installation	63
Execution Codes for Installing Qmail:.....	65
Note: Maybe you had errors	73
Some Problems and Solving Them.....	74
Problem 1.....	74
Problem 2.....	76
After Installation	77
Create Aliases	83
SMTP Access Control	84
Change /usr/sbin/sendmail symbolic link.....	86
Second Installation of qmail	90
Chapter 3	99
Local Mail.....	99
Mutt.....	99
Inject local mail via smtp	101
How to send email using telnet.....	101
How to check or read email with telnet	103
Execution:	105
Important Note:	105
Maildir Format	107
Solve Errors	109
Test cur,new,tmp subfolders of Maildir	110
epoch time	115

6	دستورات، کدها، مثال ها و سناریوهای عملی اجرا شده در مدرک بین المللی (LPIC-3 305 Mail(Qmail MTA))	
	Aliasing	117
	User Utilities	125
	Qmail-users	127
	Chapter 4	133
	DNS Configuration For MTA	133
	DNS Cofiguration Without Config For MTA	133
	My Testing Environment:	133
	Requirement Packages:.....	134
	Configuration Files Used:.....	134
	Port & Protocols Used:53, UDP.....	135
	Setup Master DNS Server	135
	Installing and Configuring Bind	145
	For Reverse Query	163
	Setup Slave DNS Server	165
	Configure Client Machine	169
	Chroot and Jail Bind DNS Server.....	171
	Execution:	172
	Concepts of Config DNS Server for Mail Server	189
	Config DNS Server for Mail Server	193
	DomainKey and DKIM	204
	Concepts	204
	Configuring DomainKey and DKIM.....	204
	Important Note	209
	Important Note	217
	Chapter 5	231
	SMTP,POP3 and IMAP(Courier,Secure)	231

Index	7
Relay	231
SMTP Auth Concepts	231
SMTP Auth Config and Usage	231
Important Note: Solve the Problem	247
Courier (courier-auth and courier imap)	254
Solve the problem.....	262
Courier (Courier POP SSL)	269
Important Note: Solve the problem	295
Create Symlinks	296
Courier (Courier IMAP SSL)	297
Important Note: Solve the problem	307
Create symlink.....	308
Securing SMTP(SMTPSD)	308
Modifying the qmailctl scripts for controlling SMTPS	319
First Error	329
Second Error	332
Chapter 6	339
Webmail(SquirrelMail, Security)	339
Squirrel Webmail	339
Installation	339
Securing Webmail (HTTPS).....	368
How to Create Self-Signed SSL Certificates and Keys for Apache on RHEL/CentOS 7.0	368
Step 1: Install and Configure Apache SSL	368
Step 2: Create SSL Certificates and Keys	373
Apache with SSL (HTTPS) For CentOS 6.5 and later	386
Chapter 7	407

Anti-SPAM and AntiVIRUS in MTA	407
badmailfrom	407
RBLSMTPD.....	410
AntiVIRUS in MailServer(clamav).....	412
Installation	412
Solve the Errors	414
Important Note	419
Note: I get error when sending mail	451
AntiSpam in MailServer(SpamAssasin)	456
MailScanner.....	486
Important Note: Using maildrop instead of MailScanner is much better	486
Installation	486
IMPORTANT Note: Qmail + MailScanner ISSUE	492
Solve the problem:	497
Solve The 2 nd Problem:.....	498
maildrop	501
Important Note: Using maildrop instead of MailScanner is much better	501
Execution:	512