

COURSE CURRICULUM

Course Name: How to Design and Set Up an e-Secure Web-based Service

Mod No.	Module	Les No.	Lesson
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1 Introduction to e-Secure Web Solutions

- 1 Why Web Solutions? - A Business Perspective
- 2 The Mother Case Study
- 3 Selecting the Right Architecture
- 4 Three-tier Architecture
- 5 Role of the Database
- 6 Role of the Application
- 7 Role of the Web Server
- 8 ASSESSMENT

2 Setting Up the Database

- 1 The Database for the Solution - RDBMS
- 2 Why MySQL?
- 3 Installing MySQL
- 4 LAB SESSION-1
- 5 Configuring MySQL
- 6 LAB SESSION-2
- 7 Assigning Rights and Permissions
- 8 LAB SESSION-3
- 9 Creating the Database
- 10 LAB SESSION-4
- 11 Creating Tables in the Database
- 12 LAB SESSION-5
- 13 Working with the Tables
- 14 LAB SESSION-6
- 15 Administering the Database
- 16 LAB SESSION-7
- 17 ASSESSMENT

3 Creating the Application

- 1 Role of a Scripting Language
- 2 Why PHP?
- 3 Installing PHP
- 4 LAB SESSION-8
- 5 Your First Program
- 6 LAB SESSION-9
- 7 Creating the Application - Part 1
- 8 Creating the Application - Part 2
- 9 LAB SESSION-10

- 10 Creating the Application - Part 3
- 11 LAB SESSION-11
- 12 Creating the Application - Part 4
- 13 LAB SESSION-12
- 14 Creating the Application - Part 5
- 15 LAB SESSION-13
- 16 Creating the Application - Part 6
- 17 LAB SESSION-14
- 18 Integrating the Application with the Database
- 19 LAB SESSION-15
- 20 Creating the Web Page
- 21 LAB SESSION-16
- 22 ASSESSMENT

4 Setting up the Web Service

- 1 Why Apache?
- 2 Installing the Apache Server
- 3 LAB SESSION-17
- 4 Configuring the Apache Server
- 5 LAB SESSION-18
- 6 Controlling the Apache Server
- 7 LAB SESSION-19
- 8 Integrating the Database and Application with the Apache Web Server
- 9 LAB SESSION-20
- 10 Fine Tuning the Web Server
- 11 LAB SESSION-21
- 12 ASSESSMENT

5 e-Securing the Web Solution

- 1 Why e-Security?
- 2 e-Security Tools
- 3 Implementing Security for the Web server
- 4 LAB SESSION-22
- 5 Implementing IDS for the Web Solution
- 6 LAB SESSION-23
- 7 Implementing Linux Firewall for the Web Solution
- 8 LAB SESSION-24
- 9 Hardening the Operating System
- 10 LAB SESSION-25
- 11 ASSESSMENT

6 Conclusion

- 1 The Web Solution