**Web Server Administration**



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**Course Objective**

* use basic Linux commands;
* use basic Windows Server commands;
* install the Apache Web Server;
* install the Internet Information Server;
* configure the Domain Name Service (DNS);
* administer and manage a web server;
* monitor and analyze the web server environment e.g. review logs.

**Target Audience**

* Security personnel who are currently tasked with assessing the technical risks of cloud computing
* Network and systems administrators who currently manage private clouds or need to leverage hybrid and/or public cloud services
* Technical auditors and consultants who need to gain a deeper understanding of cloud computing and security concerns
* Security and IT managers who need to understand the risks of cloud computing and advise business management of the risks and various approaches involved

**Course Outline**

* **Day 1**
* Getting started
* Apache
* Webservers
* Apache features
* Apache versions
* Installing Apache
* Installing XAMPP
* Compiling Apache
* Running Apache
* Running Apache automatically: Unix/Linux & MS Windows
* Checking Apache is running
* Serving webpages
* **Day 2**
* Basic configuration
* Configuring Apache
* Directives
* Modules
* Enabling/disabling modules in Debian
* Checking configurations
* Logging
* Configuring log-file contents
* Specifying log-files
* Logging errors
* Browser error messages
* Custom error pages
* Server and directory index pages
* Custom index pages
* **Day 3**
* Serving multiple sites with virtual hosts
* Multiple sites on a server
* Setting up virtual host names
* Testing host names
* Enabling virtual hosts
* Defining virtual hosts
* Configuring vitual hosts
* Using virtual hosts
* **Day 4**
* Dynamic pages with CGI, Perl and PHP
* Dynamic pages
* CGI
* CGI programs
* Sample Unix shell CGI script
* Sample Perl CGI script
* Running CGI programs with Apache
* CGI parameters
* Perl CGI parameter example
* CGI issues
* PHP scripts
* **Day 5**
* Using modules
* Modules
* Loading modules mod\_speling
* Which Modules Got Loaded ? mod\_rewrite
* Why use mod\_rewrite ?
* Rewrite Flags
* Rewrite Flags Flow Control
* Rewrite Flags Affect What is Sent to the Browser
* Rewrite Flags Affect Processing on the Server
* Internal Rewriting v Redirection
* Forcing Redirection
* Transforming URLs
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