

Module 3: Hosting Control Panels and SSL certificates.

Hosting Control Panels and SSL certificates.

1. Introduction to Control Panels

- **What are Hosting Control Panels and their roles?**

Definition: Hosting control panels are web-based interfaces that allow users to manage their hosting services.

Roles: Help manage domain settings, email accounts, databases, files, and server configurations without the need for extensive technical knowledge.

1. Introduction to Control Panels

- **Importance of Control Panels in Web Hosting**
 - Simplifies web hosting management.
 - Provides a user-friendly interface for non-technical users.
 - Reduces the time required to perform tasks such as DNS management, email creation, and file uploads.
 - Essential for troubleshooting and managing website performance.

1. Introduction to Control Panels

Common Features of Control Panels

- **File Management:** Upload, download, and manage files via file managers or FTP.
- **Email Management:** Create and manage email accounts, forwarders, and autoresponders.
- **Domain Management:** Manage DNS settings, subdomains, parked domains, and domain redirects.

1. Introduction to Control Panels

- **Database Management:** Set up databases, access phpMyAdmin for MySQL/MariaDB management.
- **Security Features:** SSL management, firewalls, and backups.
- **Application Installation:** Install applications like WordPress, Joomla, and others with one-click installers.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

- **Overview**
- Truehost offers multiple control panels based on client preferences and requirements.
- Each control panel comes with specific features aimed at improving website and hosting management.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

Key Features

cPanel:

- Popular for its ease of use and wide adoption.
- Features include file management, database setup, email configuration, backup tools, and security settings.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

The screenshot displays the TrueHost control panel interface. On the left is a dark blue sidebar with the TrueHost logo and navigation links for 'Tools', 'WP Toolkit', and 'WordPress Manager by Softaculous'. The main content area is titled 'Tools' and features a search bar at the top right. Below the search bar, the 'Email' category is expanded, showing a grid of 14 email-related tools: Email Accounts, Forwarders, Email Routing, Autoresponders, Default Address, Mailing Lists, Track Delivery, Global Email Filters, Email Filters, Email Deliverability, Address Importer, Spam Filters, Email Marketing, Encryption, and BoxTrapper, and Email Disk Usage. On the right side, a 'General Information' sidebar lists system details: Current User (redacted), Primary Domain (redacted), Shared IP Address (redacted), Home Directory (/home/...), Last Login IP Address (206.124.111.146), and Theme (redacted). A 'Server Information' link is visible at the bottom of this sidebar.

TrueHost

Tools

WP Toolkit

WordPress Manager by Softaculous

Search Tools (/)

Tools

Email

Email Accounts

Forwarders

Email Routing

Autoresponders

Default Address

Mailing Lists

Track Delivery

Global Email Filters

Email Filters

Email Deliverability

Address Importer

Spam Filters

Email Marketing

Encryption

BoxTrapper

Email Disk Usage

General Information

Current User

Primary Domain

Shared IP Address

Home Directory

Last Login IP Address

Theme

Server Information

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

Plesk:

- Ideal for both Linux and Windows hosting.
- Offers easy management of websites, databases, email accounts, and applications.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

plesk

Search...

Account (h) | All subscriptions

Websites & Domains

4 items total

Set view | Find domain...

Domain name	Status	Disk usage ↑	Traffic
LI [REDACTED]	Active	0 MB	0 MB/month
RA [REDACTED]	Active	0 MB	0 MB/month
GR [REDACTED]	Active	0.1 MB	0 MB/month
DA [REDACTED]	Active	122.5 MB	0 MB/month

Dashboard | Hosting & DNS | Mail | Get Started

Files & Databases

Connection Info for FTP, Database | Files | Databases

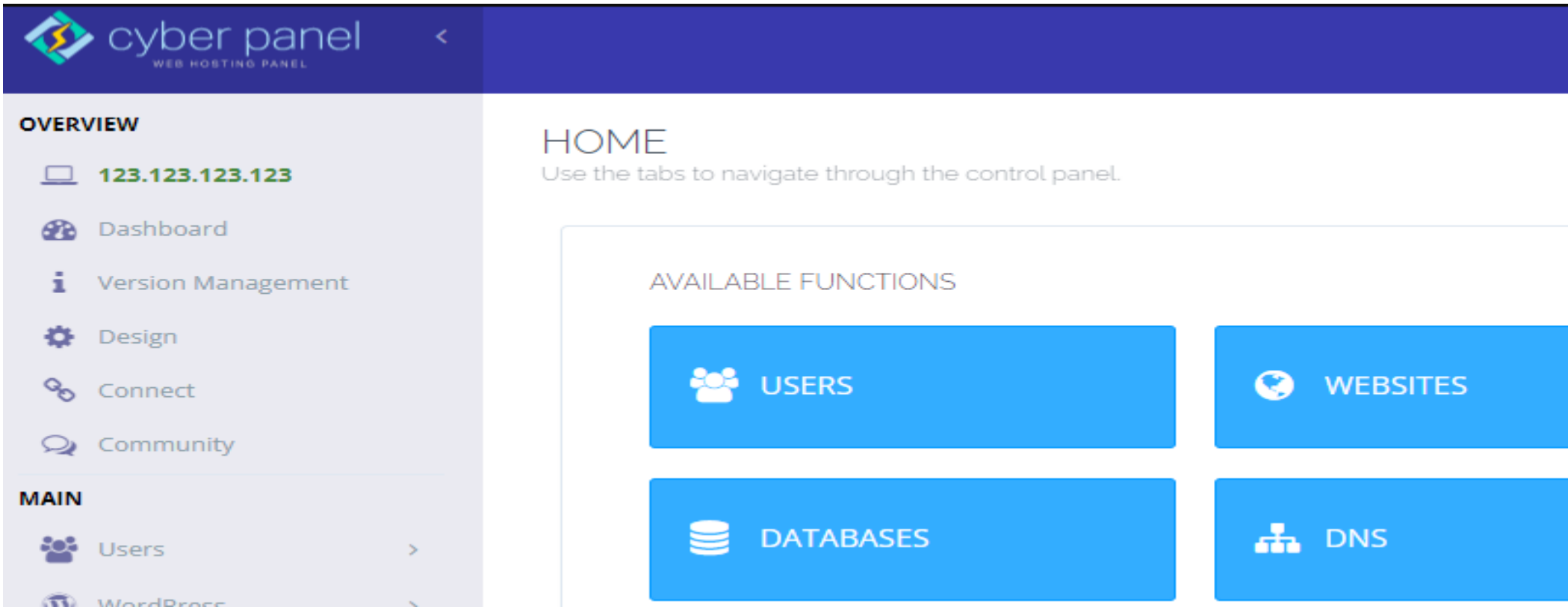
2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

Cyberpanel:

- A lightweight panel built on top of OpenLiteSpeed, ideal for performance and speed.
- Allows easy SSL certificate management, database setup, and email management.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

Cyberpanel:



The screenshot displays the Cyberpanel web hosting control panel. The interface features a dark blue header with the Cyberpanel logo and the text "cyber panel WEB HOSTING PANEL". A left sidebar contains navigation menus for "OVERVIEW" and "MAIN". The "OVERVIEW" menu includes links for Dashboard, Version Management, Design, Connect, and Community. The "MAIN" menu includes links for Users and WordPress. The main content area is titled "HOME" and contains a section for "AVAILABLE FUNCTIONS" with four blue buttons: "USERS", "WEBSITES", "DATABASES", and "DNS".

cyber panel
WEB HOSTING PANEL

OVERVIEW

- 123.123.123.123
- Dashboard
- Version Management
- Design
- Connect
- Community

MAIN

- Users
- WordPress

HOME
Use the tabs to navigate through the control panel.

AVAILABLE FUNCTIONS

- USERS
- WEBSITES
- DATABASES
- DNS

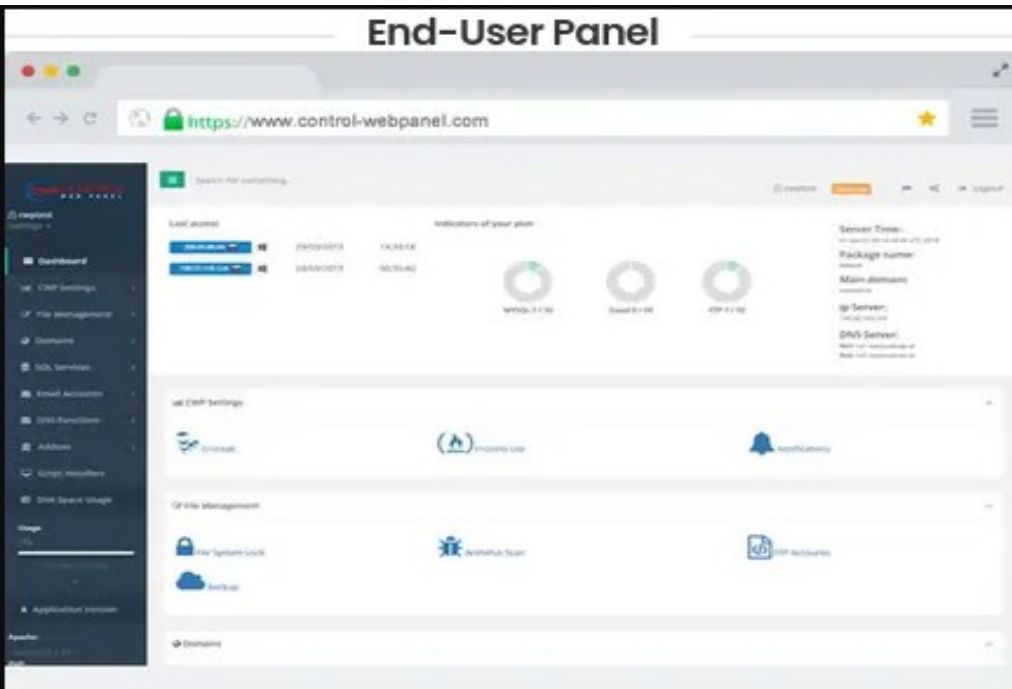
2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

CWP (CentOS Web Panel):

- Provides advanced server management features, like file management, backups, and firewall configurations.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

CWP – Admin section (CentOS Web Panel):



End-User Demo Login



root/Admin Demo Login

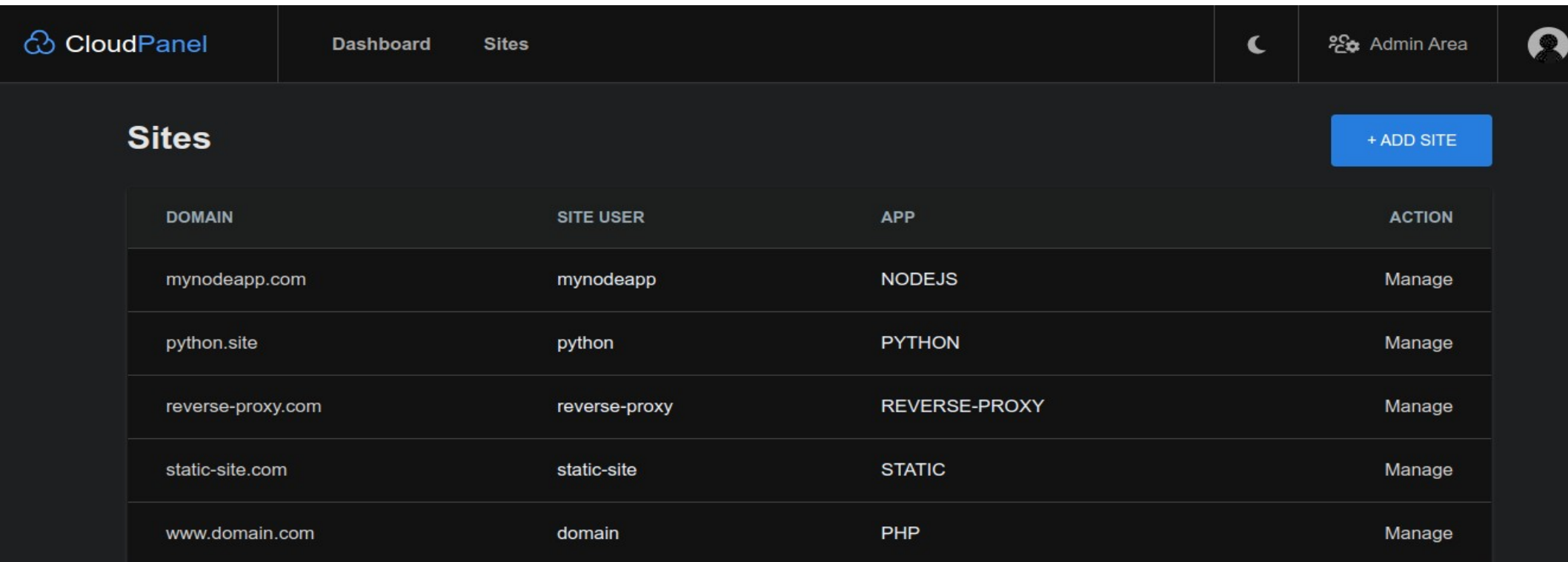
2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

Cloudpanel:

- Designed for cloud environments.
- Simple management of websites, databases, and servers with a focus on performance and optimization.

2. Navigating the Truehost Panels Used (cPanel, Plesk, Cyberpanel, CWP, Cloudpanel)

Cloudpanel:



The screenshot shows the CloudPanel dashboard interface. At the top, there is a navigation bar with the CloudPanel logo, a 'Dashboard' link, a 'Sites' link, a moon icon for theme toggling, an 'Admin Area' link with a gear icon, and a user profile icon. Below the navigation bar, the 'Sites' section is displayed with a '+ ADD SITE' button. A table lists several sites with columns for 'DOMAIN', 'SITE USER', 'APP', and 'ACTION'.

DOMAIN	SITE USER	APP	ACTION
mynodeapp.com	mynodeapp	NODEJS	Manage
python.site	python	PYTHON	Manage
reverse-proxy.com	reverse-proxy	REVERSE-PROXY	Manage
static-site.com	static-site	STATIC	Manage
www.domain.com	domain	PHP	Manage

2. Navigating the Truehost Panels Used (Virtualizor)

Virtualizor:

- Is an all in one web based VPS control panel. It is utilized in provisioning and managing of VPS

2. Navigating the Truehost Panels Used (Virtualizer)

The screenshot displays the Virtualizer dashboard interface. At the top left, the logo for 'virtualizer By Softaculous' is visible. A search bar contains the text 'KVM localhost'. The dashboard is organized into several sections:

- Navigation Menu (Left):** Includes Dashboard, Virtual Server (1 >), IP Pool (1 >), Servers (1 >), Storage (1 >), Plans, Users (1 >), Media (1 >), Recipes, Load Balancer, Passthrough, Tasks, Configuration, and Billing.
- Summary Cards (Top):**
 - VPS:** 1 VPS, 0/1 Suspended.
 - USERS:** 1 USER, 1/1 Suspended.
 - FREE IPV4:** 0 FREE IPV4, 1/1 Used IPv4.
 - FREE IPV6:** 0 FREE IPV6, 0/0 Used IPv6.
- BANDWIDTH (Chart):** A line chart showing Bandwidth In (blue) and Bandwidth OUT (orange) over a 31-day period. The y-axis ranges from 0.00GB to 0.00GB.
- CLUSTER RAM:** 45% usage, 442 / 990 MB Used.
- CLUSTER STORAGE:** 0% usage, 0 / 0 GB Used.
- Node CPU:** 0% usage, AMD Ryzen 5 3600 6-Core Processor.
- Node RAM:** 31.21% usage, 309 / 990 MB Used.
- Node DISK:** 79.56% usage.
- Node STORAGE:** 0.00% usage.

The AMD logo is visible in the bottom right corner. A notification bell icon with a red '0' is in the bottom right corner.

3. Common Tasks in Hosting Control Panels

1. File Management:

- Uploading, downloading, and editing website files.

2. Email Management:

- Setting up new email accounts, managing inbox quotas, and setting up forwarders.

3. Database Management:

- Creating and managing databases, accessing phpMyAdmin for SQL tasks.

3. Common Tasks in Hosting Control Panels

4. DNS Management:

- Configuring A, CNAME, and MX records for domains and subdomains.

5. Backup Management:

- Setting up automated backups, restoring from backups.

6. Security Features:

- Managing firewalls, SSL certificates, password protection, and security settings.

4. Managing SSL Certificates

Introduction to SSL Certificates

- SSL (Secure Socket Layer) Certificates are essential for securing communications between websites and their users by encrypting data.
- SSL certificates provide trust by showing users that their data is secure and encrypted.

Types of SSL Certificates

1. Domain Validated (DV): Basic validation, suitable for personal websites or small businesses.

4. Managing SSL Certificates

- 2. Organization Validated (OV):** Includes verification of the organization's identity, suitable for businesses.
- 3. Extended Validation (EV):** The highest level of validation with a green bar in the browser, ideal for e-commerce and financial institutions.
- 4. Wildcard SSL:** Secures a domain and its subdomains.
- 5. Multi-Domain SSL:** Secures multiple domains with a single certificate.

4. Managing SSL Certificates

Installing SSL Certificates

- SSL certificates can be installed via control panels such as cPanel, Plesk, and others.
- Steps generally involve generating a Certificate Signing Request (CSR), purchasing/installing the SSL, and applying it to the website.

Renewing and Managing SSL Certificates

- Renewal processes vary by provider but often involve purchasing a renewal and re-installing the certificate.
- Many control panels support auto-renewal for Let's Encrypt certificates.

5. Monitoring Usage and Performance Metrics

1. Disk Usage:

- Monitoring storage consumption, ensuring files, databases, and email accounts don't exceed quotas.

2. Bandwidth Usage:

- Track monthly bandwidth consumption to avoid overages or service interruptions.

3. Resource Monitoring:

- Review CPU and RAM usage to ensure website performance remains optimal.

5. Monitoring Usage and Performance Metrics

- Monitor server load to avoid performance degradation.

4. Performance Metrics:

- Use control panel analytics to review website speed, uptime, and visitor statistics.
- Tools like AWStats (in cPanel) provide insights into traffic patterns and server performance.

End of Section 3.