

CyberPanel - Basic/Essentials

Module 1: Introduction to CyberPanel

1.1 What is CyberPanel?

CyberPanel is an open-source web hosting control panel powered by **OpenLiteSpeed Web Server**.

It provides a user-friendly interface for managing Users, Websites, DNS, Databases, Emails, and more.

Designed for ease of use, CyberPanel streamlines the management of web hosting services while offering advanced features such as free SSL certificates, staging environments, and a built-in backup system.

Key Points:

- Built on OpenLiteSpeed, with support for LiteSpeed Enterprise.
- Offers a free version with powerful features for small to medium businesses.
- Supports WordPress, Joomla, Magento, and other CMS platforms through one-click installations.
- Includes integration with LSCache, a LiteSpeed caching technology for speed optimization.

1.2 Key Features of CyberPanel

CyberPanel boasts a wide range of features that make it a powerful alternative to traditional hosting control panels:

1.2.1 LiteSpeed Web Server Support

- Offers seamless integration with OpenLiteSpeed and LiteSpeed Enterprise, providing superior performance compared to Apache and Nginx.
- Comes with LSCache for server-side caching, ensuring faster loading times for websites, especially WordPress sites.

1.2.2 User-Friendly Interface

- A sleek, easy-to-navigate control panel with a dashboard overview for quick access to websites, DNS settings, email, databases, and more.
- One-click installations for popular CMS platforms like WordPress, Joomla, and PrestaShop.

1.2.3 Built-in Security Features

- Integrated free SSL certificates from Let's Encrypt.
- Automatic SSL certificate renewal.
- Firewall management, brute-force protection, and email security features like DKIM and SPF.

1.2.4 DNS and Email Management

- Full DNS management capabilities, allowing you to create and manage DNS records.
- Built-in email Client (Rainloop) for managing mailboxes and email accounts.

1.2.5 Backup and Restore

- Automated backups for websites and databases.
- Ability to schedule daily, weekly, or monthly backups and restore with a single click.

1.2.6 Staging and Cloning

- Ability to create a staging environment for websites, allowing users to test changes before publishing them.
- Website cloning feature for easy migration or replication of sites.

1.2.7 Multi-User and Multi-Tenant Hosting

- Ability to create and manage multiple users with different roles and privileges.
 - Support for reselling services with customizable hosting packages.
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1.3 Differences Between CyberPanel and Other Hosting Control Panels

While CyberPanel shares some features with other control panels like cPanel and Plesk, it also has several unique attributes:

Feature	CyberPanel	cPanel	Plesk
Web Server	LiteSpeed/Open LiteSpeed (free version available)	Apache/Nginx (LiteSpeed support via plugin)	Apache/Nginx
Interface	User-friendly, clean, modern	Slightly dated but comprehensive	Modern, sleek design

Cost	Free (with paid enterprise features)	Paid	Paid
Cache Integration	LSCache (built-in)	No built-in cache (manual config)	Optional caching plugins
Email System	Built-in Rainloop	External solutions like Horde and Roundcube	Built-in with Plesk Mail and Roundcube
One-click Installations	Yes (WordPress, Joomla, Magento, etc.)	Yes (Softaculous)	Yes (through Plesk extensions)

SSL Management	Free Let's Encrypt SSL, auto-renewal	AutoSSL available	Free Let's Encrypt SSL
Resource Usage	Lightweight, ideal for small to medium servers	Resource-heavy, requires optimized servers	Resource-heavy but more flexible
Security	Brute-force protection, 2FA, Firewall management	CSF Firewall, 2FA, ModSecurity	Built-in firewall, ModSecurity

Why Choose CyberPanel Over Others?

- **Speed and Performance:** LiteSpeed is known for its high performance and speed, especially for CMS-heavy websites like WordPress.
- **Cost:** CyberPanel's free version comes with features that are paid in other control panels.

- **Ease of Use:** The user-friendly interface allows even non-technical users to manage websites easily.
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1.4 Benefits of Using CyberPanel for Web Hosting

1.4.1 Performance and Speed

- **LiteSpeed Web Server:** Outperforms Apache and Nginx, especially for dynamic content-heavy websites.
- **LSCache:** Built-in caching solution for faster loading of websites, especially for WordPress sites.

1.4.2 Cost-Effective

- Free version available with robust features.
- No need for additional paid plugins for SSL or caching.

1.4.3 Ease of Use

- Simple and intuitive user interface, with one-click installations and minimal manual configuration.
- Suitable for beginners and advanced users alike.

1.4.4 Security

- Built-in SSL management and free SSL certificates from Let's Encrypt.
- Integrated security features like brute-force protection, firewall management, and email authentication.

1.4.5 Flexibility

- Multi-user and multi-tenant support for web hosting companies or resellers.
- Staging environments and website cloning for development and testing.