

Module 2: Installing CyberPanel

2.1 Prerequisites for Installation

Before installing CyberPanel, it is essential to understand the necessary system requirements, supported operating systems, and how to prepare your server environment.

For this section, Ensure you have been provided a Server with Root access. Request from the Trainer

2.1.1 System Requirements

CyberPanel requires a server with specific resources for optimal performance. The following are the recommended minimum specifications:

- **CPU:** 1+ Core
- **RAM:** 1 GB (2 GB recommended)
- **Disk Space:** 10 GB or more
- **Network:** Stable internet connection for downloading installation packages and receiving updates.

For high-traffic websites or hosting multiple websites, a server with at least 2-4 CPU cores and 4+ GB of RAM is recommended to ensure smooth performance.

2.1.2 Supported Operating Systems

CyberPanel supports installation on the following Linux distributions:

- **RHEL Based Systems** : CloudLinux 7, CloudLinux 8, AlmaLinux 8, AlmaLinux 9.
- **Ubuntu**: 20.04 LTS, and 22.04 LTS (for newer installations)

Note: CentOS is no Longer Supported

2.1.3 Environment Setup

Before starting the installation, ensure that your server environment is properly set up:

- **Fresh OS**: Ensure to have a fresh OS setup. No other software should be installed prior to cyberpanel installation.
- **Root Access**: You need root or sudo privileges on the server.
- **Domain Setup**: If you're using a custom domain, ensure that DNS is properly configured for the server IP, as this will be useful post-installation for accessing the panel via a domain.
- **Setup hostname** : Via terminal, ensure you have setup a server hostname. The hostname must be a

FQDN and be pointed to the server IP address. We recommend using a sub-domain related to your domain name.

- **Firewall Rules:** Open the following ports on your server's firewall to allow communication: (***Only if your Server Provider has Network Level Firewall***)
 - HTTP: 80
 - HTTPS: 443
 - CyberPanel: 8090 (default)
 - FTP: 21
 - Mail: 25, 465, 587 (for sending emails)
 - By default, Cyberpanel will automatically configure the firewall and Open the ports for you on the server. No action needed on your end.

Check if the server has any conflicting software, such as other web servers or control panels, which should be removed to avoid compatibility issues.

2.2 Step-by-Step Installation

This section will cover the detailed process for installing CyberPanel with both OpenLiteSpeed (free version) and LiteSpeed Enterprise.

2.2.1 Installing CyberPanel with OpenLiteSpeed

OpenLiteSpeed is the free and open-source version of LiteSpeed, making it a popular choice for smaller websites and developers who want high performance without incurring costs.

Step 1: Update your server

For Ubuntu

- `sudo apt update && sudo apt upgrade -y`

(For RHEL Based Systems)

- `rpm --import
https://repo.almalinux.org/almalinux/RPM-GPG-KEY-AlmaLinux`
- `yum update -y`

Step 2: Download and install CyberPanel Run the following command in your terminal to download and start the CyberPanel installation process:

- `sh <(curl -s https://cyberpanel.net/install.sh || wget -qO- https://cyberpanel.net/install.sh)`

```
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Fri Jun 25 07:26:04 2021 from 10.1.3.1
[root@srv2 ~]# Activate the web console with: systemctl enable --now cockpit.socket

Last failed login: Mon Oct 14 03:31:22 EDT 2024 from 37.32.9.121 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Mon Oct 14 03:25:48 2024 from 216.128.0.22
[root@srv2 ~]# rpm --import https://repo.almalinux.org/almalinux/RPM-GPG-KEY-AlmaLinux
[root@srv2 ~]# yum update -y
Last metadata expiration check: 0:10:30 ago on Mon 14 Oct 2024 03:25:16 AM EDT.
Dependencies resolved.
=====
Package Architecture Version Repository Size
=====
Installing:
kernel x86_64 4.18.0-553.22.1.el8_10 baseos 10 M
kernel-core x86_64 4.18.0-553.22.1.el8_10 baseos 43 M
kernel-modules x86_64 4.18.0-553.22.1.el8_10 baseos 36 M
Upgrading:
NetworkManager x86_64 1:1.40.16-15.el8_9 baseos 2.3 M
NetworkManager-libnm x86_64 1:1.40.16-15.el8_9 baseos 1.9 M
NetworkManager-team x86_64 1:1.40.16-15.el8_9 baseos 160 k
NetworkManager-tui x86_64 1:1.40.16-15.el8_9 baseos 355 k
PackageKit x86_64 1.1.12-7.el8 appstream 598 k
PackageKit-glib x86_64 1.1.12-7.el8 appstream 139 k
acl x86_64 2.2.53-3.el8 baseos 80 k
xattr x86_64 3.0.1-1.el8 baseos 137 k
=====
```

```
Initialized...

CyberPanel Installer v2.3.7

1. Install CyberPanel.
2. Exit.

Please enter the number[1-2]: 1

CyberPanel Installer v2.3.7

RAM check : 113/1769MB (6.39%)
Disk check : 3/58GB (6%) (Minimal 10GB free space)

1. Install CyberPanel with OpenLiteSpeed.
2. Install Cyberpanel with LiteSpeed Enterprise.
3. Exit.

Please enter the number[1-3]: 1

Install Full service for CyberPanel? This will include PowerDNS, Postfix and Pure-FTPd.
Full installation [Y/n]: Y
Full installation selected...

Do you want to setup Remote MySQL? (This will skip installation of local MySQL)
```

You will be prompted to select your options during installation. Choose **Option 1** to install CyberPanel with **OpenLiteSpeed**.

Step 3: Follow the prompts

- You'll be asked if you want to install **Full Service (recommended)** or **Minimal Service**. Choose "Full Service" for a complete setup.
- The installation script will automatically install all the required dependencies and software, including OpenLiteSpeed, MySQL, PHP, and other necessary components.

Step 4: Setting up the Admin Password Once the installation is completed, the system will ask you to set up the admin password to access the CyberPanel interface. Make sure to store this password securely.

2.2.2 Installing CyberPanel with LiteSpeed Enterprise

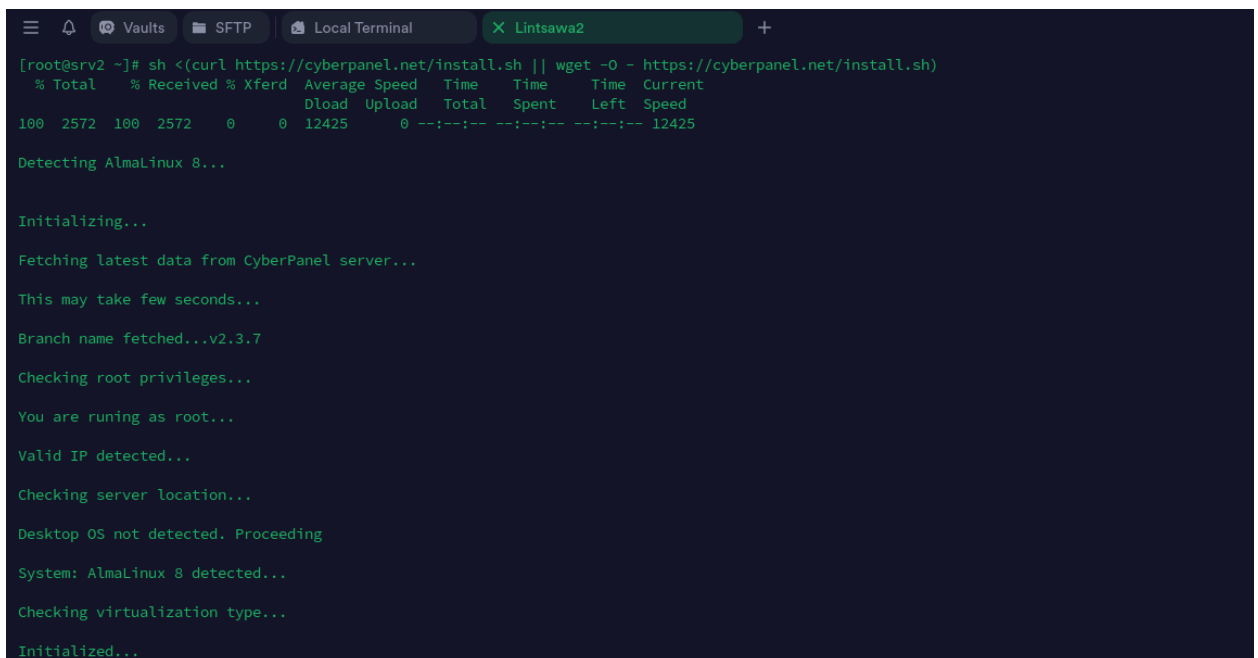
LiteSpeed Enterprise provides more advanced features and better performance for high-traffic websites. To install CyberPanel with LiteSpeed Enterprise, follow the same steps as above but choose **Option 2** when prompted.

- **LiteSpeed Enterprise License:** During the installation, you will need to select the **LiteSpeed Enterprise Edition** option. You will either use a free starter license (for 1 domain) or input your purchased license key for multiple domains.

Step 1: Update your server Same as the OpenLiteSpeed steps above.

Step 2: Install CyberPanel with LiteSpeed Enterprise

- `sh <(curl -s https://cyberpanel.net/install.sh || wget -qO- https://cyberpanel.net/install.sh)`



```
[root@srv2 ~]# sh <(curl https://cyberpanel.net/install.sh || wget -O - https://cyberpanel.net/install.sh)
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 2572 100 2572 0 0 12425 0 --:--:-- --:--:-- --:--:-- 12425

Detecting AlmaLinux 8...

Initializing...

Fetching latest data from CyberPanel server...

This may take few seconds...

Branch name fetched...v2.3.7

Checking root privileges...

You are running as root...

Valid IP detected...

Checking server location...

Desktop OS not detected. Proceeding

System: AlmaLinux 8 detected...

Checking virtualization type...

Initialized...
```

```
Do you want to setup Remote MySQL? (This will skip installation of local MySQL)
(Default = No) Remote MySQL [y/N]: N
Local MySQL selected...

Press Enter key to continue with latest version or Enter specific version such as: 1.9.4 , 2.0.1 , 2.0.2 ...etc

Branch name set to v2.3.7

Please choose to use default admin password 1234567, randomly generate one (recommended) or specify the admin password?
Choose [d]efault, [r]andom or [s]et password: [d/r/s]
Admin password will be provided once installation is completed...
Do you wish to install Memcached process and its PHP extension?
Please select [Y/n]: Y
Install Memcached process and its PHP extension set to Yes...
Do you wish to install Redis process and its PHP extension?
Please select [Y/n]: Y
Install Redis process and its PHP extension set to Yes...

Would you like to set up a WatchDog (beta) for Web service and Database service ?
The watchdog script will be automatically started up after installation and server reboot
If you want to kill the watchdog , run watchdog kill
Please type Yes or no (with capital Y, default Yes):
Y
36 files removed
```

← Password to be autogenerated.

→ Select yes ONLY if your server has 4gb RAM above..

Once installation is complete, Reboot the server.

```
grep: /usr/local/CyberCP/public/snappymail.php: No such file or directory
#####
CyberPanel Successfully Installed
Current Disk usage : 7/58GB (14%)
Current RAM usage : 375/1769MB (21.20%)
Installation time : 0 hrs 19 min 0 sec

Visit: https://151.80.93.107:8090
Panel username: admin
Panel password: WwG4w7CLYaoVibh
Run cyberpanel help to get FAQ info
Run cyberpanel upgrade to upgrade it to latest version.
Run cyberpanel utility to access some handy tools .

Website : https://www.cyberpanel.net
Forums : https://forums.cyberpanel.net
Wikipage: https://docs.cyberpanel.net
Docs : https://cyberpanel.net/docs/

Enjoy your accelerated Internet by
CyberPanel & OpenLiteSpeed
#####
If your provider has a network-level firewall
Please make sure you have opened following port for both in/out:
TCP: 8090 for CyberPanel
TCP: 80, TCP: 443 and UDP: 443 for webserver
TCP: 21 and TCP: 40110-40210 for FTP
TCP: 25, TCP: 587, TCP: 465, TCP: 110, TCP: 143 and TCP: 993 for mail service
TCP: 53 and UDP: 53 for DNS service
Would you like to restart your server now? [y/N]: y
```

← Login URL

← Cyberpanel admin Password.

Step 3: Select LiteSpeed Enterprise during installation

Choose **Option 2** when the installation script prompts you to select between OpenLiteSpeed and LiteSpeed Enterprise.

- **Licensing:** You will be required to either provide a LiteSpeed Enterprise license key or choose the free single-domain license.

Once the installation finishes, set up your admin password as prompted.

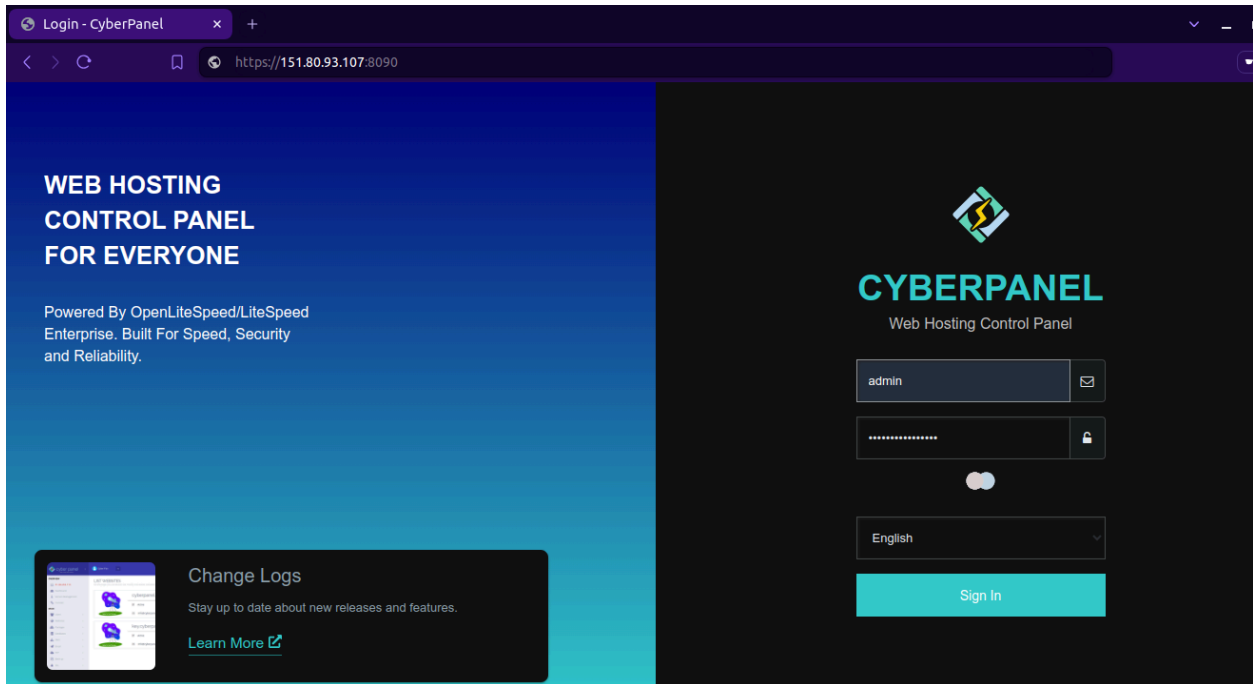
2.3 Post-Installation Configurations

Once the installation is complete, you will need to perform some essential post-installation tasks.

2.3.1 Accessing the CyberPanel Admin Interface

To access CyberPanel, open your browser and navigate to:

- <https://<your-server-IP>:8090>



- If you have set up a domain for your server, you can access the panel via:
 - <https://<your-domain>:8090> or <https://yourserverhostname:8090>
 - Example : <https://srv2.lintsawa.com:8090>

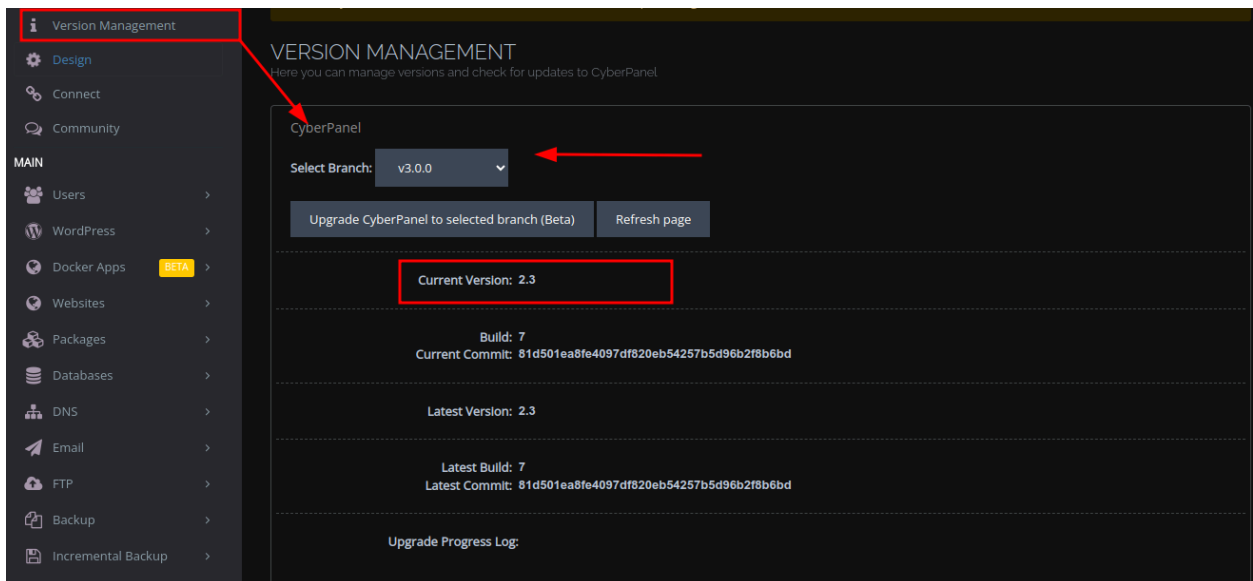
Use the admin credentials (username: **admin**, password: auto generated) to log in.

2.3.2 Updating System Packages

Once inside the CyberPanel dashboard, it's important to keep your system packages up to date for security and performance.

Updating CyberPanel:

- Navigate to the **"Version Management"** section under **System**.
- Click **Upgrade** to update to the latest version of CyberPanel.



Updating System Software:

- Open the terminal via SSH and update your system using the package manager for your operating system:

- `sudo apt update && sudo apt upgrade -y`

(For RHEL based systems):

- `yum update -y`

2.3.3 Setting Up User Roles

CyberPanel allows multiple users with varying levels of access to the control panel. You can set up users and assign roles based on the tasks they need to perform.

Steps to Create a New User:

- Go to "**User Management**" in the CyberPanel dashboard.
- Select **Create New User**.
- Input the username, password, and email, then assign a role:
 - **Admin**: Full access to all features and settings.
 - **Reseller**: Access to create and manage websites for customers but limited control over server settings.
 - **Website Owner**: Restricted to managing only their website's settings and resources.

You can also assign specific websites and hosting packages to users at this point.

