

Installation of Go (Golang) on Windows, Mac, and Linux

1. Installation on Windows

Step 1: Download Go

1. Go to the official [Go Downloads page](#).
2. Download the Windows installer (.msi file) suitable for your system (either 64-bit or 32-bit).

Step 2: Install Go

1. Run the downloaded .msi file.
2. Follow the prompts to complete the installation.
3. By default, Go will be installed in C:\Program Files\Go.

Step 3: Set Up Environment Variables

1. Open **File Explorer**.
2. Right-click on **This PC** and choose **Properties**.
3. Click on **Advanced system settings**.
4. In the **System Properties** window, click on **Environment Variables**.
5. Under **System Variables**, find **Path** and click **Edit**.
6. Add the path where Go was installed (e.g., C:\Program Files\Go\bin).
7. Click **OK** to save.

Step 4: Verify Installation

1. Open **Command Prompt** or **PowerShell**.
2. Run the command: go version

2. Installation on macOS

Step 1: Download Go

1. Visit the official [Go Downloads page](#).

2. Download the macOS .pkg file.

Step 2: Install Go

1. Open the downloaded .pkg file.
2. Follow the on-screen instructions to complete the installation. By default, Go will be installed in `/usr/local/go`.

Step 3: Set Up Environment Variables

To make Go accessible from the terminal, follow these steps:

1. Open the terminal.
2. Add Go's binary location to your `PATH` by editing your shell's configuration file (`.bash_profile`, `.zshrc`, or `.bashrc` depending on your shell). `nano ~/.zshrc`
3. Add the following line at the end: `export PATH=$PATH:/usr/local/go/bin`
4. Save and close the file.
5. Reload the terminal or run: `source ~/.zshrc`

Step 4: Verify Installation

1. Run the following command in the terminal `go version`

3. Installation on Linux

Step 1: Download Go

1. Visit the official [Go Downloads page](https://golang.org/dl/).
2. Download the Linux tarball (`.tar.gz`).

Alternatively, run the following command to download via the terminal:

```
wget https://go.dev/dl/go1.20.7.linux-amd64.tar.gz
```

Step 2: Install Go

1. Extract the downloaded tarball into `/usr/local`:

```
sudo tar -C /usr/local -xzf go1.20.7.linux-amd64.tar.gz
```

By default, Go will be installed in `/usr/local/go`.

Step 3: Set Up Environment Variables

1. Open your shell configuration file (`~/.bashrc`, `~/.zshrc`, or `~/.bash_profile`).
2. Add the following line to include Go in your `PATH`: `export PATH=$PATH:/usr/local/go/bin`
3. Save the file and run the command to apply the changes: `source ~/.bashrc`

Step 4: Verify Installation

1. Run the following command in the terminal: `go version`

Referrance Videos:

1. Windows : <https://youtu.be/CrDrmkoRrCo?si=UlpoguQG83mOdWG0>
2. MacOS (Apple Silicon (M1/M2/M3)) :
<https://youtu.be/fPjcp48dpPM?si=UGqytqUfum8ou41Y>
3. MacOS (Intel Processor) : <https://youtu.be/twEXimXfhBA?si=HdhEobXdTnq8jY8y>
4. Linux / Ubuntu : <https://youtu.be/LLqUFxAPsvs?si=pTWzwQeuSxi-bniA>