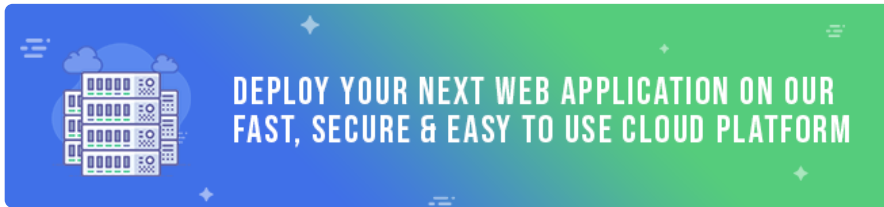




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How To Install Go On Ubuntu 20.04

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Go is an open-source programming language that was developed by Google. It was launched in November 2009, and version 1.0 was released in 2012. It is written in C programming language C and was developed to create dependable and efficient software. Go was created to combine the best features of other programming languages into one language. In this guide, you will learn how to install Go on Ubuntu 20.04.

The advantages of the Go programming language include:

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- Static(or strict) typing and compiled programming language.
- Concurrency support and Garbage collection.
- Strong library and toolset.
- Multiprocessing and advanced performance for networking.
- Good readability and usability

Let us now shift gears and install Go on Ubuntu 20.04.

Step 1. Download Go compressed file

The first step is to download the compressed source code file. At the time of writing this article, the latest version of Go is 1.16.3. So, head over to the official download page and grab the file using the wget command as follows.

```
$ wget https://golang.org/dl/go1.16.3.linux-amd64.tar.gz
```



```
james@ubuntu: ~  
james@ubuntu:~$  
james@ubuntu:~$  
james@ubuntu:~$ wget https://golang.org/dl/go1.16.3.linux-amd64.tar.gz  
--2021-05-03 23:26:53-- https://golang.org/dl/go1.16.3.linux-amd64.tar.gz  
Resolving golang.org (golang.org)... 216.58.223.81, 2a00:1450:401a:804::2011  
Connecting to golang.org (golang.org)|216.58.223.81|:443... connected.  
HTTP request sent, awaiting response... 302 Found  
Location: https://dl.google.com/go/go1.16.3.linux-amd64.tar.gz [following]  
--2021-05-03 23:26:54-- https://dl.google.com/go/go1.16.3.linux-amd64.tar.gz  
Resolving dl.google.com (dl.google.com)... 216.58.223.78, 2a00:1450:401a:805::200e  
Connecting to dl.google.com (dl.google.com)|216.58.223.78|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 129021323 (123M) [application/octet-stream]  
Saving to: 'go1.16.3.linux-amd64.tar.gz'  
  
64.tar.gz      13%[=>] 16.51M  928KB/s  eta 2m 9s
```

Next, extract it to the /usr/local directory as shown.

```
$ sudo tar -C /usr/local -xzf go1.16.3.linux-amd64.tar.gz
```

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```
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james@ubuntu:~$  
james@ubuntu:~$ sudo tar -C /usr/local -xzf go1.16.3.linux-amd64.tar.gz  
james@ubuntu:~$  
james@ubuntu:~$ ls /usr/local/  
bin  etc  games  go  include  lib  man  sbin  share  src  
james@ubuntu:~$  
james@ubuntu:~$  
james@ubuntu:~$  
james@ubuntu:~$
```

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Step 2. Set the Path Variable

You need to add the path of the Go directory to the \$PATH environment variable so that the system knows where to find Go executable binaries. Run the command below to add the go binary path to the .bashrc file This is for the case of system-wide installation.

```
$ export PATH=$PATH:/usr/local/go/bin
```

Now that we have added the PATH environment variable, run the following command to apply the changes.

```
$ source ~/.bashrc
```

Verify the version of go installed by simply running the command below. The version of go installed in the output below is 1.16.3.

```
$ go version
```

```
james@ubuntu: ~  
james@ubuntu:~$  
james@ubuntu:~$ export PATH=$PATH:/usr/local/go/bin  
james@ubuntu:~$  
james@ubuntu:~$ source ~/.bashrc  
james@ubuntu:~$  
james@ubuntu:~$ go version  
go version go1.16.3 linux/amd64  
james@ubuntu:~$  
james@ubuntu:~$
```

Step 3: Getting started with Go

Now that GO is installed, let's run a simple program. Firstly, we will create a workspace directory called go:

```
$ mkdir $HOME/go
```

Inside the workspace create a new directory src/hello.

```
$ mkdir -p ~/go/src/hello
```

Next, navigate to the directory and create a hello.go file in the hello directory.

```
$ cd ~/go/src/hello
```

```
$ sudo vim hello.go
```

Now let's write a hello world program in go.

```
package main
import "fmt"
func main() {
    fmt.Printf("Hello, World\n")
}
```

A screenshot of a terminal window with a dark background. The window title is "james@ubuntu: ~/go/src/hello". The terminal content shows the Go code from the previous block: "package main", "import \"fmt\"", "func main() {", " fmt.Printf(\"Hello, World\\n\")", "}". The cursor is at the end of the code.

Run the program with the command:

```
$ go run hello.go
```

```
james@ubuntu:~/go/src/hello$
james@ubuntu:~/go/src/hello$
james@ubuntu:~/go/src/hello$ go run hello.go
Hello, World
james@ubuntu:~/go/src/hello$
james@ubuntu:~/go/src/hello$
james@ubuntu:~/go/src/hello$
```

You can now build your projects in go.

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About James

Hey there! This is James, a Linux administrator and a tech enthusiast. I love experimenting with various distributions of Linux and keeping tabs on what's new in the Linux world.

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