

Linux Installation Cheatsheet

If you want to use snap, you can easily install Go like so:

```
sudo snap install go --classic
```

Otherwise, please follow the steps below:

1. Update the local packages

```
sudo apt-get update
```

2. Install git

```
sudo apt-get install git
```

3. Install Go

There are two ways:

1- From Web: Select Linux and the download will begin.

```
firefox https://golang.org/dl
```

2- By using snap: If you use this option, skip to the 5th step.

```
sudo snap install go --classic
```

4. Copy Go into the proper directory

1. Find out the name of the downloaded file
2. Use that filename to uncompress it

```
gofile="DELETE_THIS_AND_TYPE_THE_NAME_OF_THE_DOWNLOADED_FILE_HERE  
(without its extension)"  
  
tar -C /usr/local -xzf ~/Downloads/$gofile
```

5. Add Go executables directory to your PATH

1. Add `go/bin` directory to `$PATH` to be able to run the fundamental Go commands.

```
echo 'export PATH=$PATH:/usr/local/go/bin' >> ~/.profile
```

2. Add `"$HOME/go/bin"` directory to `$PATH`

```
echo 'export PATH=$PATH:$HOME/go/bin' >> ~/.profile
```

Install Go Tools:

- These are very handy tools to ease the development (like `goimports`)
- `go get` cannot be used without installing a code versioning program like Git which we already have got it above.
- This will create `~/go` directory and will download go tools into there.
 - This directory is also a place where you should put your code into. (If you're not going to use Go Modules)

```
go get -v -u golang.org/x/tools/...
```

Install VSCode (Optional)

Note: You may use another coding editor if you like. However, the course uses Visual Studio Code (VSCode).

1. Open "Ubuntu Software" application
2. Search for VSCode then click "Install"

OPTIONAL STEP:

1. Create a `hello.go` file in a new directory but anywhere outside of `$GOPATH`

```
cat <<EOF > hello.go
package main

import "fmt"

func main() {
    fmt.Println("hello gopher!")
}
```

```
}  
EOF
```

2. Run the program

```
go run hello.go  
It should print: hello gopher!
```

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