Day003

Install Terraform on MacOs using homebrew package manager

Homebrew is a package manager for macOS which lets you install free and open-source software using your terminal. You'll use Homebrew to install developer tools like Python, Ruby, Node.js, and more.

1. make sure that `homebrew` is installed on your MacOS, if not follow below:
   1. `/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`
   2. you can learn more about **Homebrew** on this [link](#)
2. Once `homebrew` is installed, you can easily installed terraform as below
   1. First, install the HashiCorp tap, a repository of all our Homebrew packages.
      `brew tap hashicorp/tap`
   2. Now, install Terraform with hashicorp/tap/terraform.
      `brew install hashicorp/tap/terraform`
3. Verify the installation
   1. `terraform -help`

Enable tab completion

If you use either Bash or Zsh, you can enable tab completion for Terraform commands. To enable autocomplete, first ensure that a config file exists for your chosen shell.

If using Bash Shell

`touch ~/.bashrc`

Then install the autocomplete package.

`terraform -install-autocomplete`

Once the autocomplete support is installed, you will need to restart your shell.
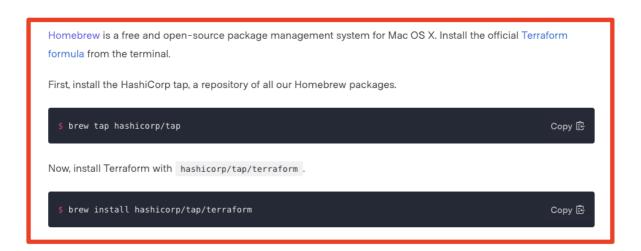
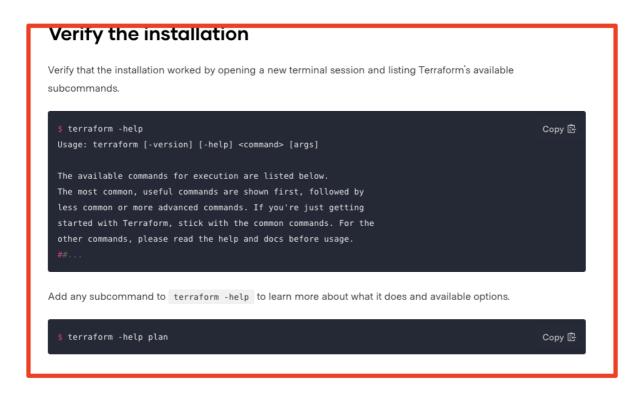**If using Zsh Shell**

`touch ~/.zshrc`
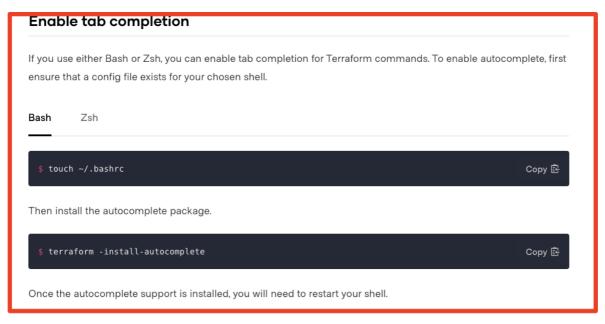
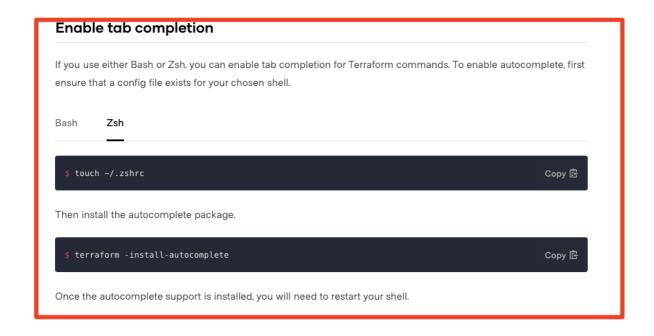Then install the autocomplete package.

`terraform -install-autocomplete`

Once the autocomplete support is installed, you will need to restart your shell.

For more details, follow [Hashicorp Official Page](#)

Verify the installation

Verify that the installation worked by opening a new terminal session and listing Terraform's available subcommands.

```
$ terraform -help                                                    Copy
Usage: terraform [-version] [-help] <command> [args]

The available commands for execution are listed below.
The most common, useful commands are shown first, followed by
less common or more advanced commands. If you're just getting
started with Terraform, stick with the common commands. For the
other commands, please read the help and docs before usage.
##...
```

Add any subcommand to `terraform -help` to learn more about what it does and available options.

```
$ terraform -help plan                                               Copy
```

Enable tab completion

If you use either Bash or Zsh, you can enable tab completion for Terraform commands. To enable autocomplete, first ensure that a config file exists for your chosen shell.

Bash   Zsh

```
$ touch ~/.bashrc                                                    Copy
```

Then install the autocomplete package.

```
$ terraform -install-autocomplete                                   Copy
```

Once the autocomplete support is installed, you will need to restart your shell.

Enable tab completion

If you use either Bash or Zsh, you can enable tab completion for Terraform commands. To enable autocomplete, first ensure that a config file exists for your chosen shell.

Bash   **Zsh**

```
$ touch ~/.zshrc                                    Copy
```

Then install the autocomplete package.

```
$ terraform -install-autocomplete                   Copy
```

Once the autocomplete support is installed, you will need to restart your shell.

Install Terraform using Yum/DNF Package Manager for RHEL, CentOS, and Fedora Linux Systems

Terraform offer package repositories for RedHat Enterprise Linux, Fedora, and Amazon Linux systems, which allow you to install Terraform using the `yum install` or `dnf install` commands.

Repository Configuration

Before adding a repository you must determine which distribution you are using. The following command lines refer to a placeholder variable `$release` which you must replace with the appropriate value from the following list:

Red Hat Enterprise Linux: RHEL
Fedora: fedora
Amazon Linux: AmazonLinux

```
[cloud_user@1bdabb53b61c ~]$ release=RHEL
[cloud_user@1bdabb53b61c ~]$
[cloud_user@1bdabb53b61c ~]$
[cloud_user@1bdabb53b61c ~]$
[cloud_user@1bdabb53b61c ~]$ sudo yum install -y yum-utils
```

If you are using a Yum-based distribution, add the repository using `yum-config-manager` as follows:

```
sudo yum install -y yum-utils
```
```
sudo yum-config-manager --add-repo
https://rpm.releases.hashicorp.com/$release/hashicorp.repo
```

If you are using a DNF-based distribution, add the repository using `dnf config-manager` as follows:

```
sudo dnf install -y dnf-plugins-core
```
```
sudo dnf config-manager --add-repo
https://rpm.releases.hashicorp.com/$release/hashicorp.repo
```

In both cases, the Terraform package name is terraform. For example:

```
sudo yum install terraform
```

```
[cloud_user@1bdabb53b61c ~]$ sudo yum-config-manager --add-repo https://rpm.releases.hashicorp.com/$release/hashicorp.repo
Adding repo from: https://rpm.releases.hashicorp.com/RHEL/hashicorp.repo
[cloud_user@1bdabb53b61c ~]$ dnf
dnf     dnf-3
[cloud_user@1bdabb53b61c ~]$ dnf
dnf     dnf-3
[cloud_user@1bdabb53b61c ~]$ sudo yum install terraform
[cloud_user@1bdabb53b61c ~]$ sudo yum install terraform
```

To enable `autocomplete` , first ensure that a config file exists for your chosen shell.

If using Bash Shell,

```
touch ~/.bashrc
```

Then install the autocomplete package.

```
terraform –install–autocomplete
```

```
[cloud_user@1bdabb53b61c ~]$ terraform --version
Terraform v1.1.7
on linux_amd64
[cloud_user@1bdabb53b61c ~]$
[cloud_user@1bdabb53b61c ~]$
[cloud_user@1bdabb53b61c ~]$
[cloud_user@1bdabb53b61c ~]$ terraform --install-autocomplete
```

Supported Distribution Releases

The HashiCorp Yum server currently contains release repositories for the following distribution releases:

AmazonLinux 2
Fedora 29
Fedora 30
Fedora 31
Fedora 32
Fedora 33
RHEL 7 (and CentOS 7)
RHEL 8 (and CentOS 8)