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Sub: Advanced DevOps

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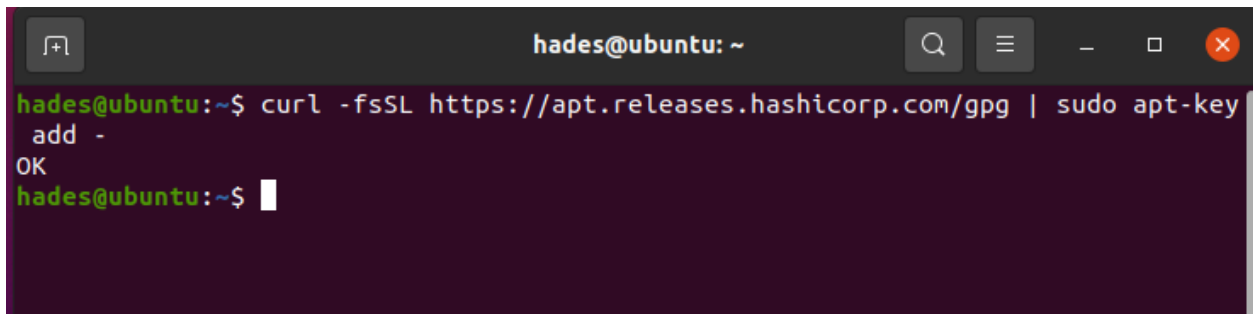
**Aim:** To understand terraform lifecycle, core concepts/terminologies and install it on a Linux Machine.

**Steps:**

**1. Find HashiCorp Authentication for their packages on their official website here.**

(<https://www.terraform.io/cli/install/apt>)

```
curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo  
apt-key add -
```

A terminal window titled 'hades@ubuntu: ~' with standard window controls. The terminal shows the command 'curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo apt-key add -' being executed. The output is 'OK', and the prompt returns to 'hades@ubuntu:~\$'.

```
hades@ubuntu:~$ curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo apt-key  
add -  
OK  
hades@ubuntu:~$
```

Register the key to your system.

**2. Add this repository to your system. sudo apt-add-repository**

```
sudo apt-add-repository "deb [arch=$(dpkg  
--print-architecture)] https://apt.releases.hashicorp.com  
$(lsb_release -cs) main"
```

```
hades@ubuntu: ~  
hades@ubuntu:~$ sudo apt-add-repository "deb [arch=$(dpkg --print-architecture)]  
https://apt.releases.hashicorp.com $(lsb_release -cs) main"  
Get:1 https://apt.releases.hashicorp.com focal InRelease [16.3 kB]  
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease  
Hit:3 http://us.archive.ubuntu.com/ubuntu focal InRelease  
Hit:4 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease  
Hit:5 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease  
Get:6 https://apt.releases.hashicorp.com focal/main amd64 Packages [65.1 kB]  
Fetched 81.3 kB in 1s (85.1 kB/s)  
Reading package lists... Done  
hades@ubuntu:~$
```

### 3. Install Terraform `sudo apt install terraform`.

`sudo apt install terraform`

```
hades@ubuntu: ~  
hades@ubuntu:~$ sudo apt install terraform  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  terraform  
0 upgraded, 1 newly installed, 0 to remove and 323 not upgraded.  
Need to get 19.9 MB of archives.  
After this operation, 63.0 MB of additional disk space will be used.  
Get:1 https://apt.releases.hashicorp.com focal/main amd64 terraform amd64 1.2.9  
[19.9 MB]  
Fetched 19.9 MB in 6s (3,348 kB/s)  
Selecting previously unselected package terraform.  
(Reading database ... 159167 files and directories currently installed.)  
Preparing to unpack .../terraform_1.2.9_amd64.deb ...  
Unpacking terraform (1.2.9) ...  
Setting up terraform (1.2.9) ...  
hades@ubuntu:~$
```

### 4. Verify your installation.

```
hades@ubuntu:~$ terraform --version  
Terraform v1.2.9  
on linux_amd64  
hades@ubuntu:~$
```

**Conclusion:** In this experiment, we learned how to install Terraform on our Linux machines.