



System Provisioning and Configuration Management Lab

Siddhant Singh

500095375

Batch - 3

Experiment 1

Download Terraform

Ensure that your system is up to date and you have installed the `gnupg`, `software-properties-common`, and `curl` packages installed. You will use these packages to verify HashiCorp's GPG signature and install HashiCorp's Debian package repository.

```
$ sudo apt-get update && sudo apt-get install -y gnupg software-properties-common
```

Install the HashiCorp [GPG key](#).

```
$ wget -O- https://apt.releases.hashicorp.com/gpg | \
gpg --dearmor | \
sudo tee /usr/share/keyrings/hashicorp-archive-keyring.gpg
```

Verify the key's fingerprint.

```
$ gpg --no-default-keyring \
--keyring /usr/share/keyrings/hashicorp-archive-keyring.gpg \
--fingerprint
```

The `gpg` command will report the key fingerprint:

```
/usr/share/keyrings/hashicorp-archive-keyring.gpg
-----
pub   rsa4096 XXXX-XX-XX [SC]
AAAA AAAA AAAA AAAA
uid           [ unknown] HashiCorp Security (HashiCorp Package Signing) <security@hashicorp.com>
sub   rsa4096 XXXX-XX-XX [E]
```

finds the distribution release codename for your current system, such as `buster`, `groovy`, or `sid`.

```
$ echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring] https://apt.releases.hashicorp.com $(lsb_release -cs) main" | \
sudo tee /etc/apt/sources.list.d/hashicorp.list
```

Copy

Download the package information from HashiCorp.

```
$ sudo apt update
```

Copy

Install Terraform from the new repository.

```
$ sudo apt-get install terraform
```

Copy

Verify installation

```
terrafo(base) captaincuckoo@pop-os:~$ terraform -help
Usage: terraform [global options] <subcommand> [args]
```

The available commands for execution are listed below. The primary workflow commands are given first, followed by less common or more advanced commands.

Main commands:

<code>init</code>	Prepare your working directory for other commands
<code>validate</code>	Check whether the configuration is valid
<code>plan</code>	Show changes required by the current configuration
<code>apply</code>	Create or update infrastructure
<code>destroy</code>	Destroy previously-created infrastructure

All other commands:

<code>console</code>	Try Terraform expressions at an interactive command prompt
<code>fmt</code>	Reformat your configuration in the standard style
<code>force-unlock</code>	Release a stuck lock on the current workspace
<code>get</code>	Install or upgrade remote Terraform modules
<code>graph</code>	Generate a Graphviz graph of the steps in an operation
<code>import</code>	Associate existing infrastructure with a Terraform resource
<code>login</code>	Obtain and save credentials for a remote host
<code>logout</code>	Remove locally-stored credentials for a remote host
<code>metadata</code>	Metadata related commands