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HashiCorp Terraform

Department of Computer Science and Engineering
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Hashicorp Terraform

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Introduction to Terraform & Installation on Linux

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Introduction to HashiCorp Terraform

What is Terraform?

Terraform is an open-source Infrastructure as Code (IaC) tool developed by HashiCorp that automates the provisioning and management of infrastructure resources.

Purpose:

Terraform simplifies managing infrastructure across multiple platforms, including cloud providers (AWS, Azure, GCP) and on-premises environments.

Use Cases:

- Creating virtual machines, databases, and networks.
- Automating multi-cloud deployments.
- Scaling infrastructure to handle increased traffic.

Installing HashiCorp Terraform on Linux

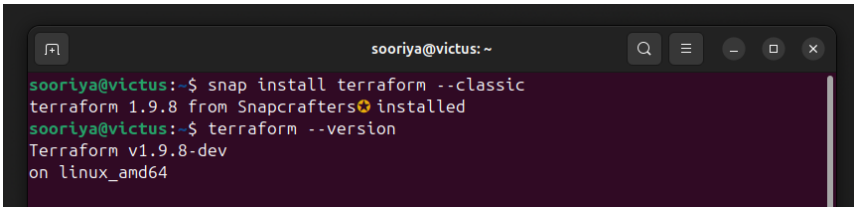
Step 1: Install Terraform with Snap

1. Open a terminal on your Linux machine.
2. Install Terraform using the Snap package manager with classic confinement.

NOTE: HashiCorp, the creator of Terraform, is a trusted organization in the DevOps space. Installing the Terraform Snap package with --classic confinement is safe and necessary for its full functionality, as it requires broader system access.

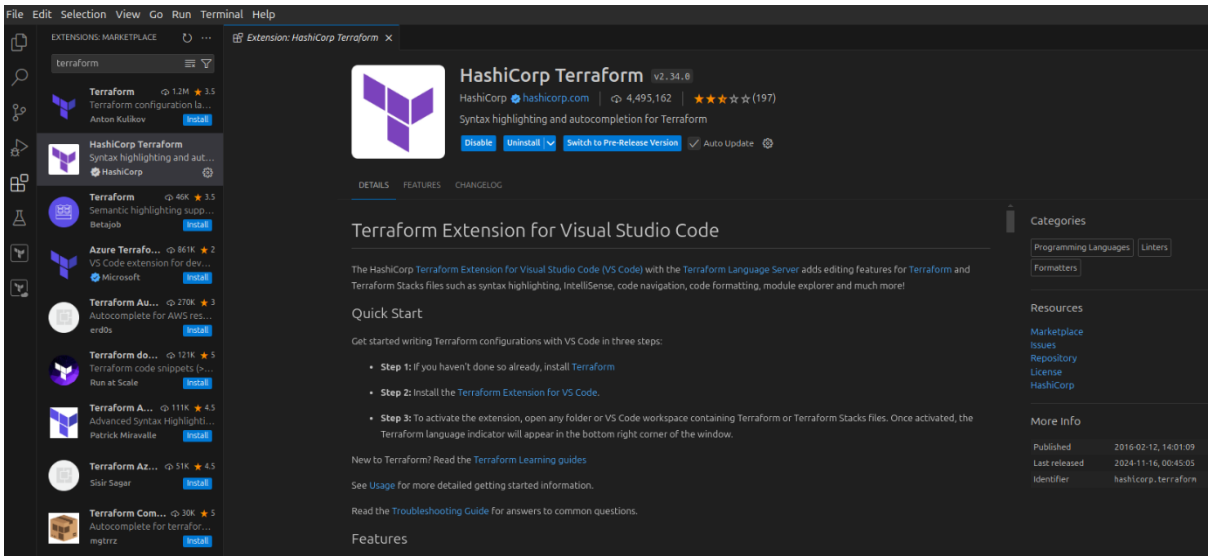
Step 2: Verify Installation

1. Check if Terraform was successfully installed.
2. You should see the installed version number displayed, confirming the installation.



Step 3: Add Terraform Extensions in VS Code

1. Open Visual Studio Code (VS Code).
2. Navigate to the Extensions view.
3. Search for "**HashiCorp Terraform**" in the marketplace.
4. Click **Install** to add the extension.
5. Restart VS Code for the changes to take effect.



With Terraform successfully installed and the VS Code extension configured, your development environment is ready for managing infrastructure as code.

This setup enables you to efficiently provision, configure, and manage cloud resources with precision and scalability.

The system is equipped to explore the capabilities of Terraform and implement robust infrastructure solutions.