



AUTOMATE APPLICATION DELIVERY— DEPLOY INFRASTRUCTURE AS CODE

The cloud offers organizations greater scale and agility for application deployments. With that comes increased complexity for managing the infrastructure that these applications rely on. In order to efficiently deploy applications in the cloud, organizations need to be able to provision and manage both infrastructure and other services in a scalable and repeatable way. Together, HashiCorp and F5 are helping to automate this process.

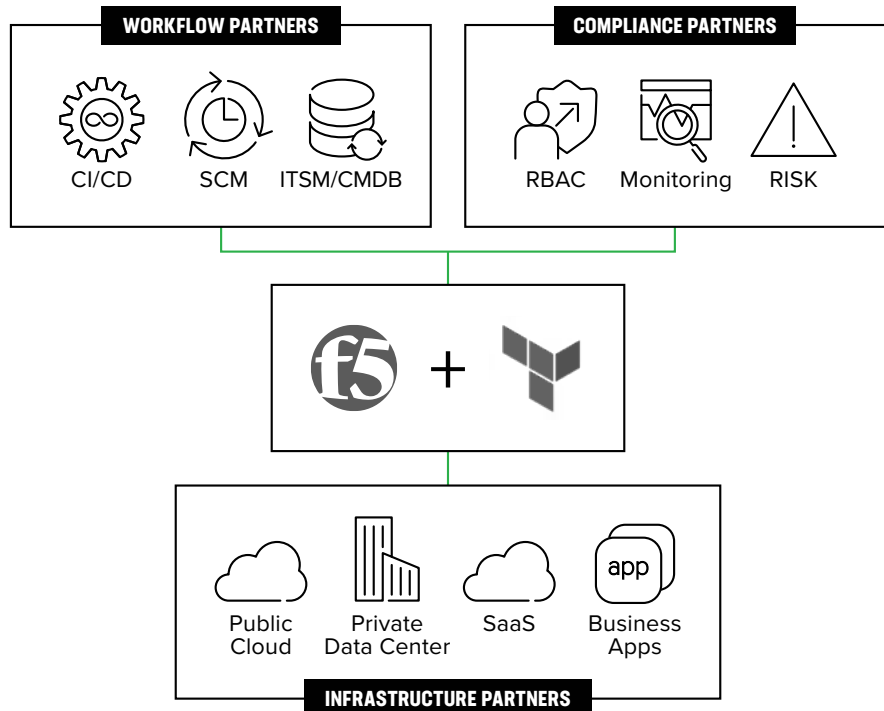


Figure 1: F5 and HashiCorp Terraform ecosystem for platform agnostic, end-to-end application lifecycle management.

USE CASES

Multi-Cloud Management

Using Terraform with F5 BIG-IP enables organizations to deploy and manage F5 application services across multiple regions or clouds through a standard workflow.

Supported Scalability

F5 BIG-IP and HashiCorp Terraform help organizations manage their applications at scale. Configuration files are easily shared across teams and Terraform Cloud offers a number of a feature aimed at improving collaboration.

Configure as Code

All Terraform configurations are written in HashiCorp Configuration Language (HCL), a human-readable, machine friendly language. Operators can create and share reusable modules for their BIG-IP instances enabling faster deployments.

HASHICORP TERRAFORM AND F5 BIG-IP

Terraform enables F5 users to provision and manage their BIG-IP platform and resources as code. Operators configure the desired state of their BIG-IP instance in a configuration file and then submit that file to Terraform via the command line or UI. Terraform interprets the configuration and makes the required API calls to BIG-IP to construct the state. As changes are made, Terraform checks against existing configurations and only makes the necessary changes. These configuration files can be shared across organizations making it easier to deploy at scale.

BIG-IP PROVIDER—HOW IT WORKS

Terraform communicates with F5 BIG-IP through the iControlREST API and supports resources validated with BIG-IP v12.1.1 and above. Terraform users can manage network configurations, device groups, HA configurations, VIPs, pools, monitors, and other LTM configurations as code. These configurations are then sent from Terraform to the user's BIG-IP instance and the corresponding changes are made. Using Terraform Cloud, operators can also version these changes in the Version Control System of their choice enable better collaboration across team members.

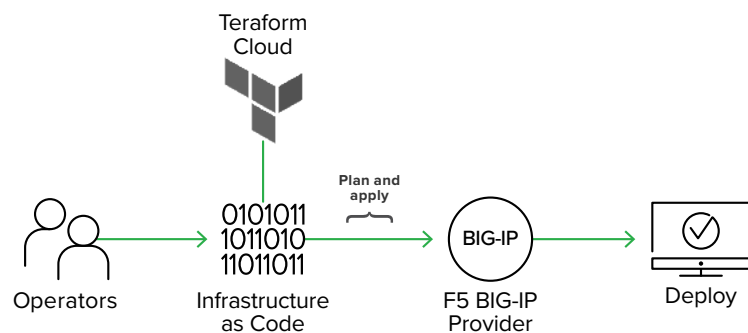


Figure 2: Configure F5 BIG-IP as using the BIG-IP provider.

COMPANY INFO

HashiCorp is a cloud infrastructure automation company that enables organizations to adopt consistent workflows to provision, secure, connect, and run any infrastructure for any application. Learn more at hashicorp.com/integrations/f5.

