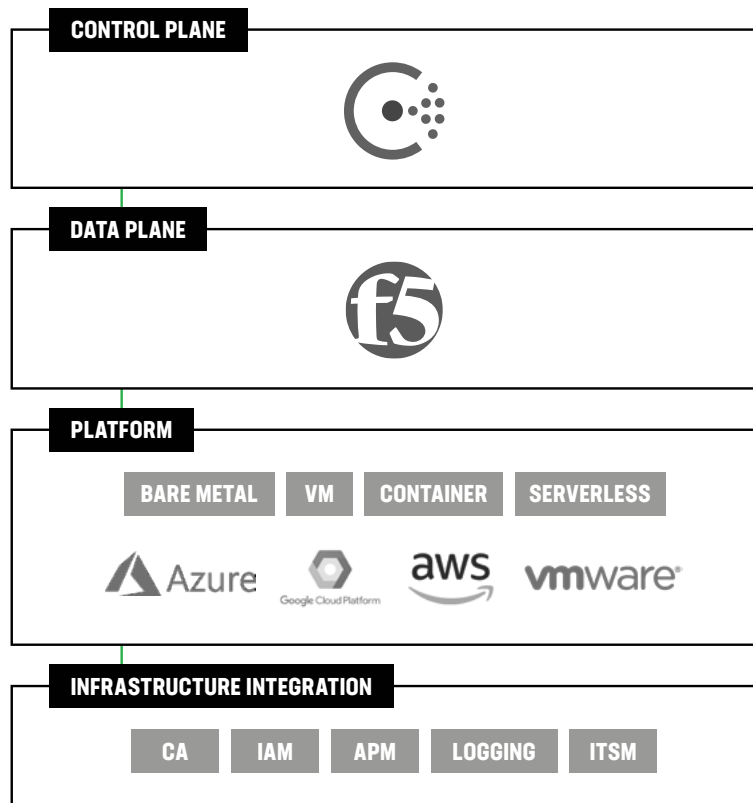# AUTOMATE APPLICATION DELIVERY–SERVICE DISCOVERY ACROSS ALL ENVIRONMENTS

The cloud offers organizations greater scale and agility for application deployments. With that comes increased complexity for managing the delivery and management of those applications. Services may now reside in multiple regions, across multiple clouds. Organizations need to ensure that they are able to secure app service connections reliably and consistently while, maintaining compliance with internal policies. HashiCorp Consul and F5 BIG-IP can address this challenge.

Figure 1: Consul control-plane and F5 data-plane for distributed applications across hybrid cloud.

CONTROL PLANE

DATA PLANE

PLATFORM

BARE METAL   VM   CONTAINER   SERVERLESS

Azure   Google Cloud Platform   aws   vmware

INFRASTRUCTURE INTEGRATION

CA   IAM   APM   LOGGING   ITSM

HASHICORP CONSUL AND F5 BIG-IP

F5 BIG-IP and HashiCorp Consul help enterprises automate the service monitoring and discovery processes through an integration with the F5 Application Services 3 Extension (AS3). When configured, BIG-IP can query Consul's catalog to find healthy services and retrieve information about the current cluster members without having to first provide a set of static IP addresses. This means that users can deploy Consul ahead of their applications and have them automatically registered, eliminating the need for manual ticketing processes and reducing downtime.

HOW IT WORKS

Consul communicates with F5 BIG-IP through an integration with the F5 Application Services 3 (AS3) Extension. This extension is a flexible, declarative, low-overhead mechanism for managing application specific configurations on a BIG-IP system. With AS3, users can define ADC, Security, and Consul endpoints for the specified environment. From there, users can leverage a tool like Terraform to add these configurations as a resource to their existing BIG-IP instance.
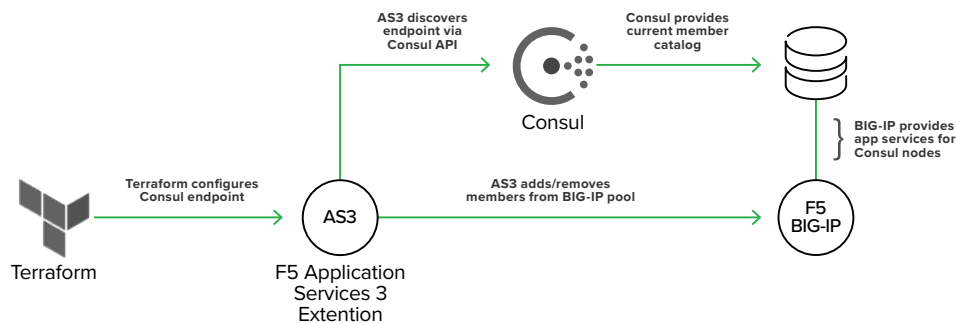

Figure 2: Service discovery with F5 BIG-IP and HashiCorp Consul.

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.