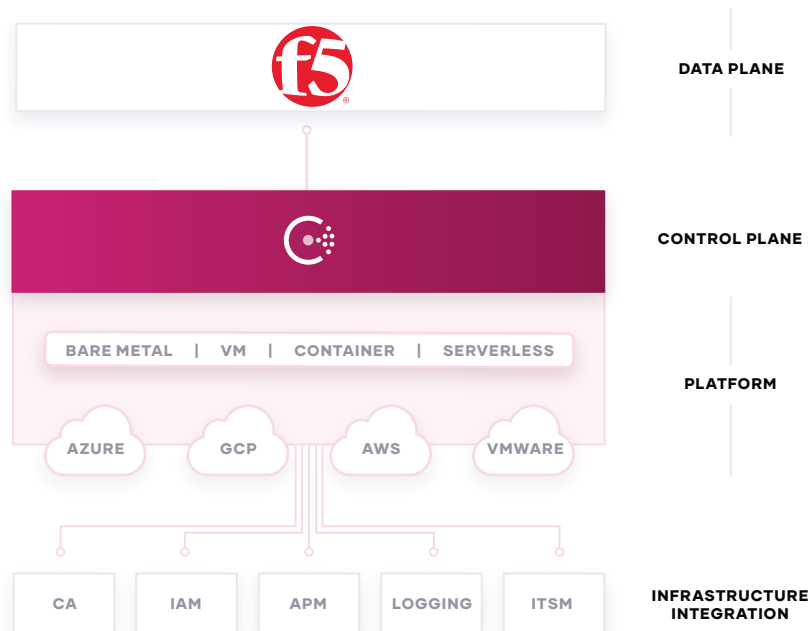


# Automate Application Delivery

## Service Discovery Across All Environments

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.



## HashiCorp Consul and F5 BIG-IP

F5 BIG-IP and HashiCorp Consul help enterprises automate the service discovery process through an integration with the F5 Application Services 3 Extension (AS3). When configured, BIG-IP is able to 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 configure 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.

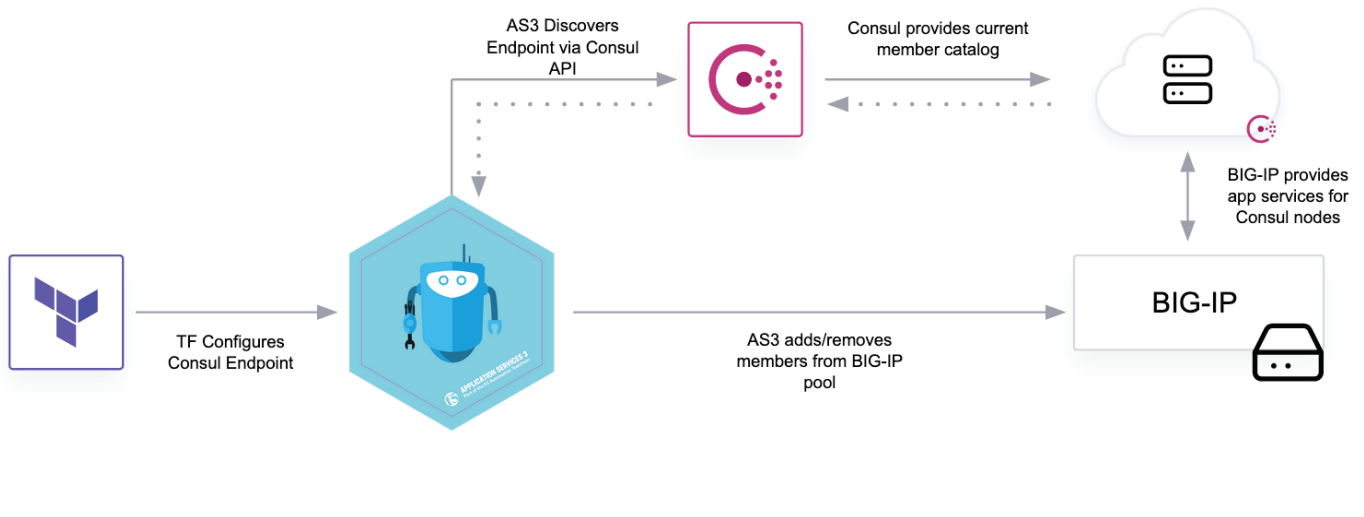


Figure 1: Service Discovery with Terraform, Consul and AS3

## Use Cases

### Automate Service Discovery

By leveraging the integration with Consul, F5 BIG-IP users can automate the detection of new services and monitor the health of existing nodes.

### Manage Multi-cloud Environments

F5 BIG-IP and HashiCorp Consul work for all environments. Organizations can leverage this integration to conduct service discovery across multiple regions and clouds, both private or public.

### Configure as Code

F5's AS3 extension and HashiCorp Consul are both configurable. This allows network operators to manage their environments "as code" in real time reducing downtime and replacing ticket-based systems.

## Company Info

F5 powers applications from development through their entire life cycle, so our customers can deliver differentiated, high-performing, and secure digital experiences. Learn more at [www.f5.com/hashicorp](http://www.f5.com/hashicorp).