

# Provision BIG-IP on Microsoft Azure Red Hat OpenShift

## Key Benefits

- Accelerate application transformation, easily migrate existing applications to containers, and run within Azure Red Hat OpenShift
- Manage, automate, and better secure container environments
- Jointly developed, co-engineered solution. Microsoft SKU + F5 Big IP in Marketplace
- Smooth integration with F5 BIG-IP
- Optimize a fully managed container service from three trusted companies
- Day 2 operations management
- Business continuity and multicloud management

## Overview

BIG-IP virtual editions (VE) for Microsoft Azure integrated with Microsoft Azure Red Hat® OpenShift® lets you take advantage of the elasticity of the public cloud while continuing to manage and better secure critical applications as you would when they're hosted on-premise. Whether you want to move your applications entirely to Azure cloud, use a hybrid private-public cloud network, or deploy a multicloud architecture, BIG-IP VEs for Microsoft Azure can help increase efficiency, optimize performance, and bolster security.

## Red Hat OpenShift on Azure

While Red Hat OpenShift can be deployed and operated on-premise or in cloud technology (public or private), many enterprises find that a managed offering on Microsoft Azure is the best way to use Red Hat OpenShift. [Azure Red Hat OpenShift](#) is jointly engineered and operated by Microsoft and Red Hat and jointly supported as well. It provides guaranteed uptime and availability with a defined service-level agreement (SLA), better security, and compliance. You can scale on your terms, from tens of containers to thousands, and only pay for what you need through a consumption-based, pay-as-you-go model.

Azure Red Hat OpenShift can be deployed as a fully managed service, eliminating the complexity of implementing and managing the platform. F5 and Red Hat accelerate the transformation to Red Hat

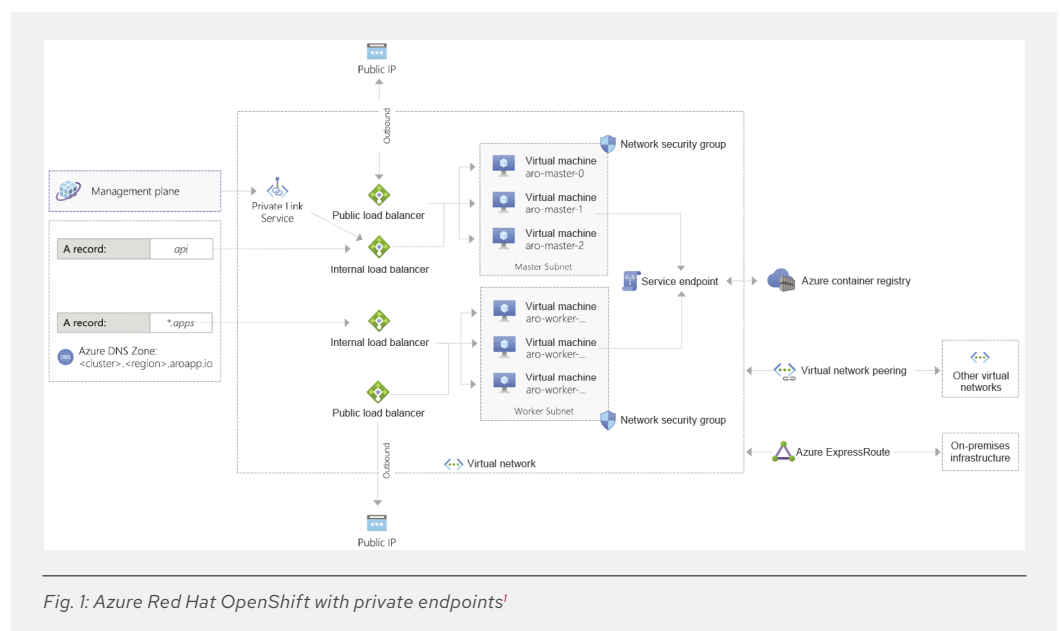


Fig. 1: Azure Red Hat OpenShift with private endpoints<sup>1</sup>



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<sup>1</sup> "ARO on OpenShift 4.3." Red Hat blog, accessed 3 March 2021.



### About F5:

F5 (NASDAQ: [FFIV](#)) is a multi-cloud application security and delivery company that enables our customers—which include the world’s largest enterprises, financial institutions, service providers, and governments—to bring extraordinary digital experiences to life. For more information, go to [f5.com](#). You can also follow [@F5](#) on Twitter or visit us on [LinkedIn](#) and [Facebook](#) for more information about F5, its partners, and technologies.

OpenShift in cloud computing by improving provisioning and operating processes and securing Red Hat OpenShift clusters.

Azure Red Hat OpenShift comes with a well-documented process for deploying clusters. Network managers who follow [these instructions](#) can create a standard Red Hat OpenShift deployment like the one shown here in about 35 minutes.

## BIG-IP on Azure Red Hat OpenShift

F5 and Microsoft deliver a joint solution for adopting [zero trust cybersecurity](#) across all of an organization’s applications—including on-premise classic applications as well as enterprise applications deployed to Azure Red Hat OpenShift. F5 BIG-IP provides these services using container ingress services (CIS) to help scale applications and services across clusters and sites. In addition, F5 BIG-IP offers advanced access and security control for traffic going into or out of a Red Hat OpenShift cluster for consistent policy enforcement and end-to-end compliance in any cloud.

F5 also provides administrators the necessary tools to greatly ease configuration and management of the Azure Red Hat OpenShift deployment. Instead of using the previously mentioned guidance provided by Microsoft, F5 users can take advantage of an easy-to-use template to provision an Azure Red Hat OpenShift cluster while simultaneously configuring BIG-IP to provide advanced application delivery and security capabilities. This entire process can be accomplished in about 35 minutes and leaves the user with a deployment similar to the one shown here.

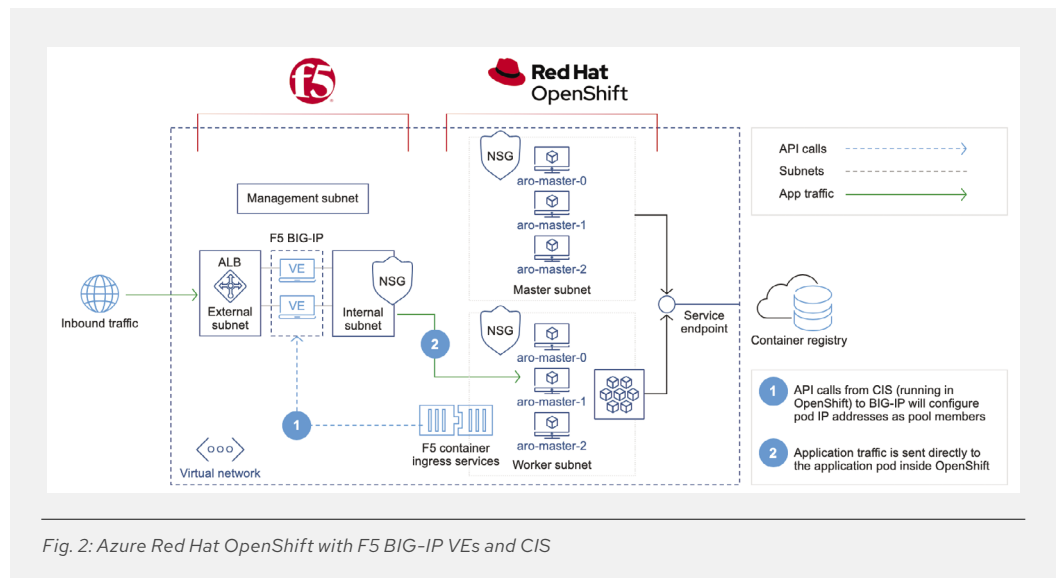


Fig. 2: Azure Red Hat OpenShift with F5 BIG-IP VEs and CIS

Deployment can be accomplished in six simple steps using a template and step-by-step guidance provided by F5:

1. Add three subnets for the F5 BIG-IP VM.
2. Deploy F5 VMs into those subnets using [this ARM template](#).
3. Add BIG-IP to the Red Hat OpenShift network following [these instructions](#).

4. Install CIS in Red Hat OpenShift following [these instructions](#).
5. Deploy an app into OpenShift.
  - Include a Route resource that is detected by CIS (or configmap, ingress, etc.).
  - CIS then populates the app's pod IP addresses as pool members in BIG-IP.
6. Create a DNS record so your app is accessible via BIG-IP.

For more information on deploying Red Hat OpenShift on Azure with F5 please contact [M.Quill@f5.com](mailto:M.Quill@f5.com).

### Learn more

[Introducing Azure Red Hat OpenShift on OpenShift 4](#)

[F5 BIG-IP VE in Azure Marketplace](#)

[Azure Red Hat OpenShift with F5](#)

### About Red Hat



Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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