Microsoft

January 30, 2019 — 8:30 AM - 5:00 PM | Detroit, Michigan

Azure Dev Day

Learn, architect, and develop solutions on Azure

#AzureDevDays

for developers, by developers

Learn.

Connect.

Explore.

Microsoft

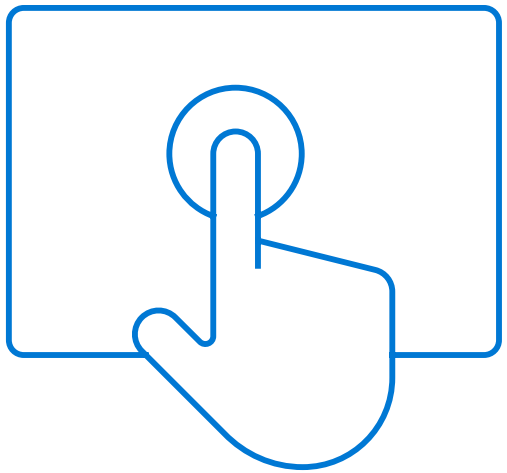
Azure App Service

Randy Pagels
Azure Technical Specialist – App Dev

Learn.

Connect.

Explore.



Getting Started Demo

Create a simple web app

Tools

Developer tools
DevOps
Management tools

Advanced workloads

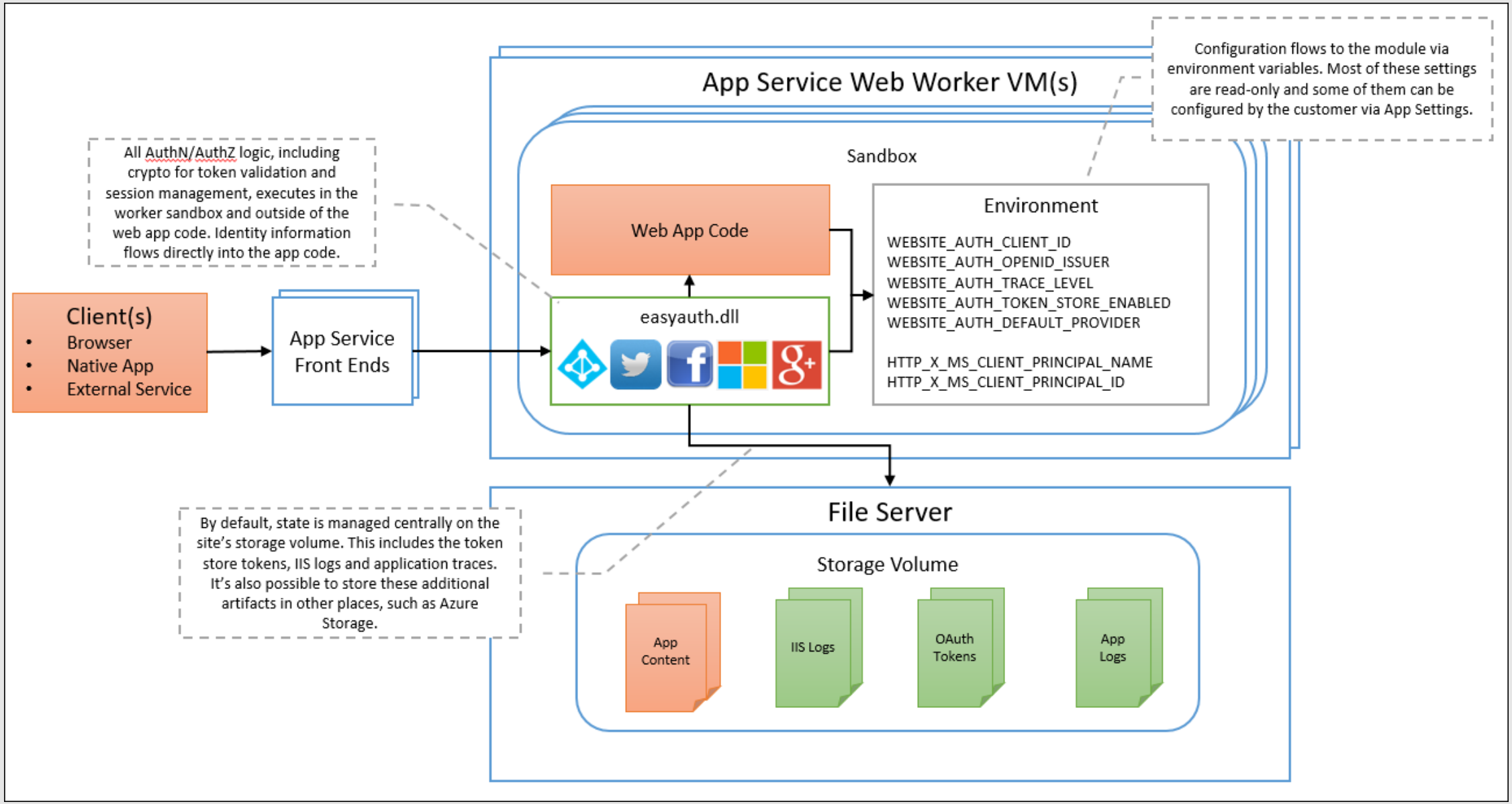
Web
Mobile
Serverless
Containers
Integration services
Media
Analytics
Databases
Internet of Things
AI + Machine Learning

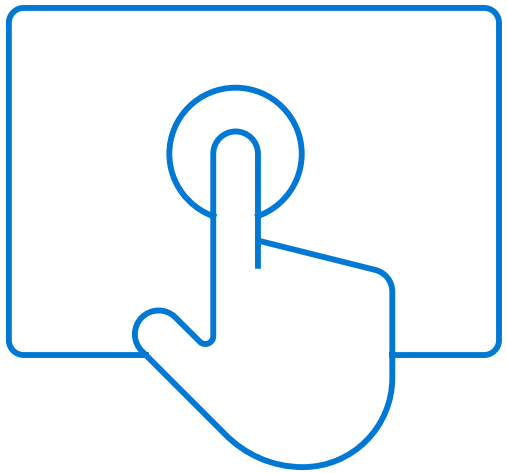
Core infrastructure

Compute
Networking
Storage
Security
Identity

Azure Stack + Hybrid

App Service Architecture

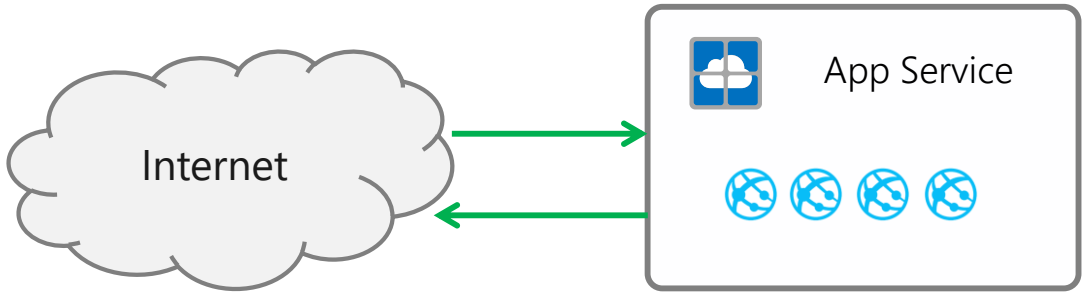




App Service Networking

DevOps Project

Default behavior

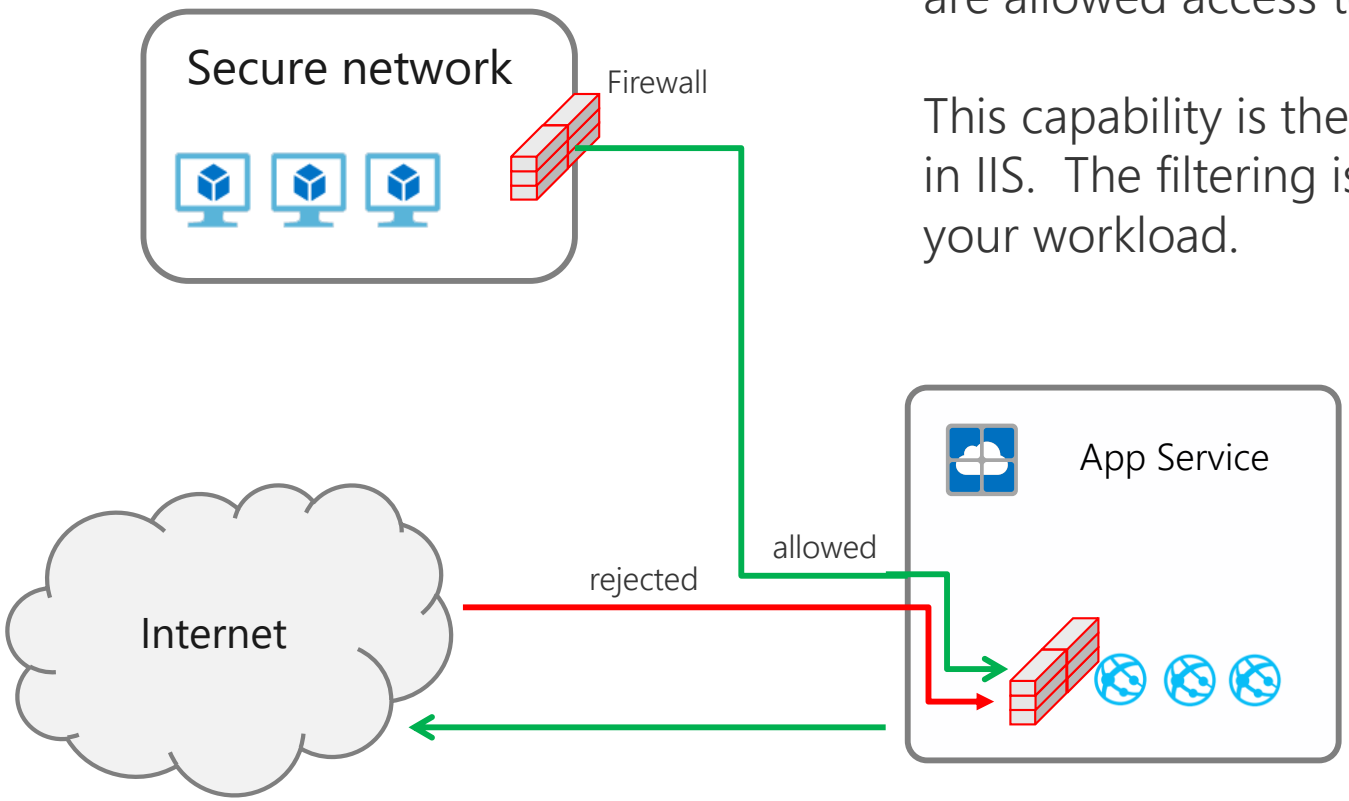


Inbound traffic to your app hits an IP address that is shared with the other apps.

Outbound backend calls from your app can only go out to the internet through a set of addresses shared with other apps. There are anywhere from 4 to 11 addresses used for outbound traffic

IP Restrictions

Scenario: Restrict access to your app at the web server. Can combine with app assigned address for a dedicated channel to your app.



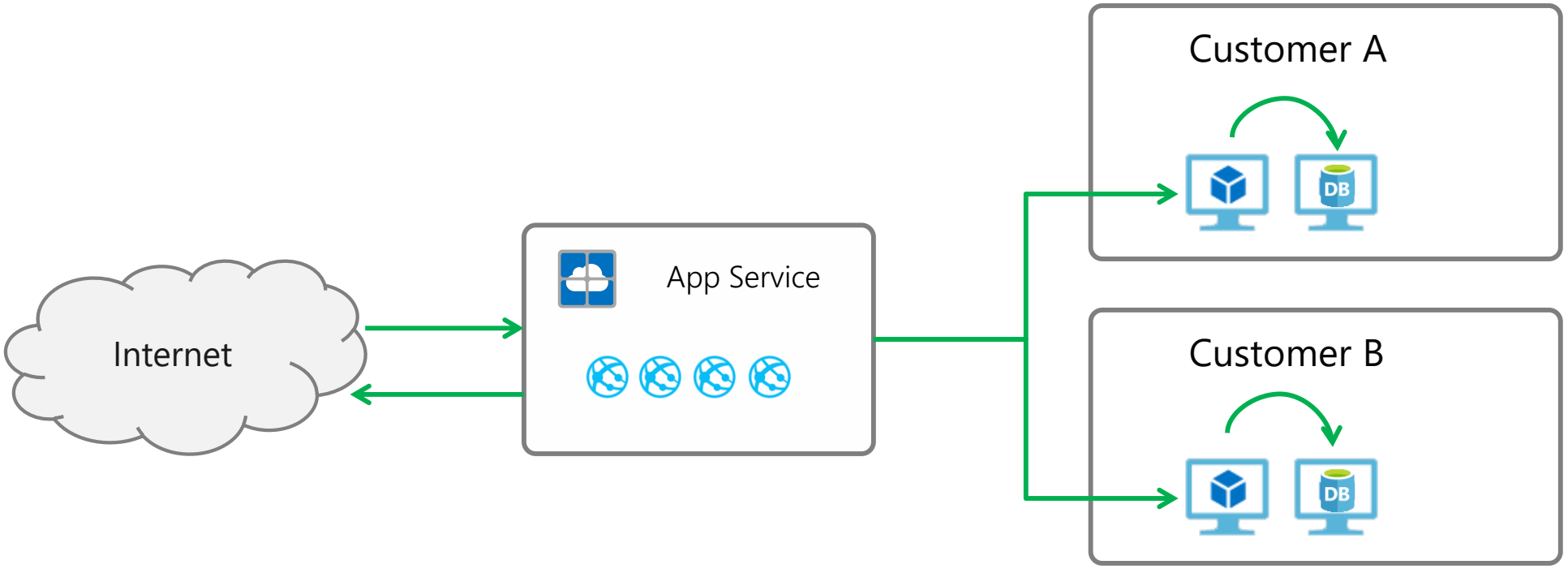
This capability allows you to define a set of IP ranges that are allowed access to your app.

This capability is the same as the IP filtering capability seen in IIS. The filtering is enforced at the web server hosting your workload.

Hybrid Connections

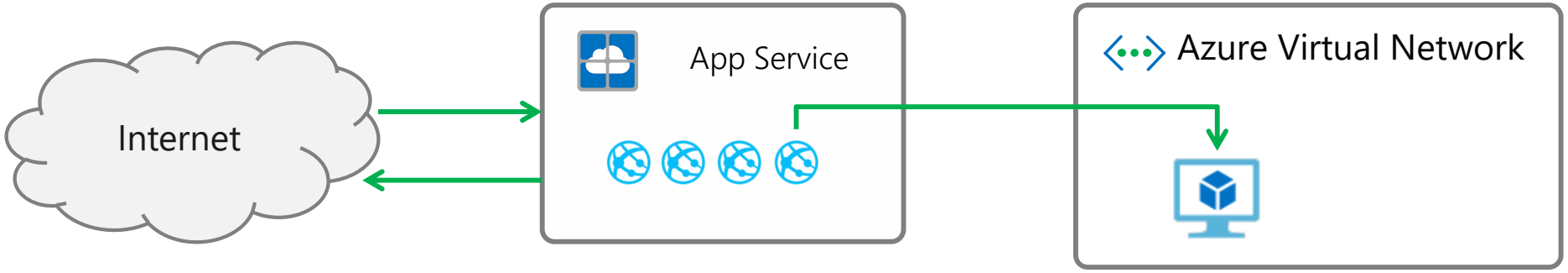
Scenario: Access into networks lacking a VPN to Azure
Examples: Inventory management service that needs access into customer databases

Outbound backend calls from your app can reach TCP endpoints (host:port) in your any network that can access the internet.



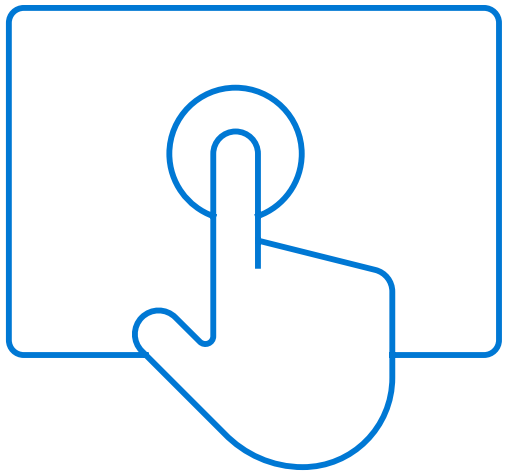
VNet Integration

Scenario: Access resources in your Azure VNet
Example: Wordpress site with the database on a VM in your VNet



Outbound backend calls from your app can go to private IP addresses in your Azure Virtual Network or go out to the internet through a set of addresses shared with other apps.

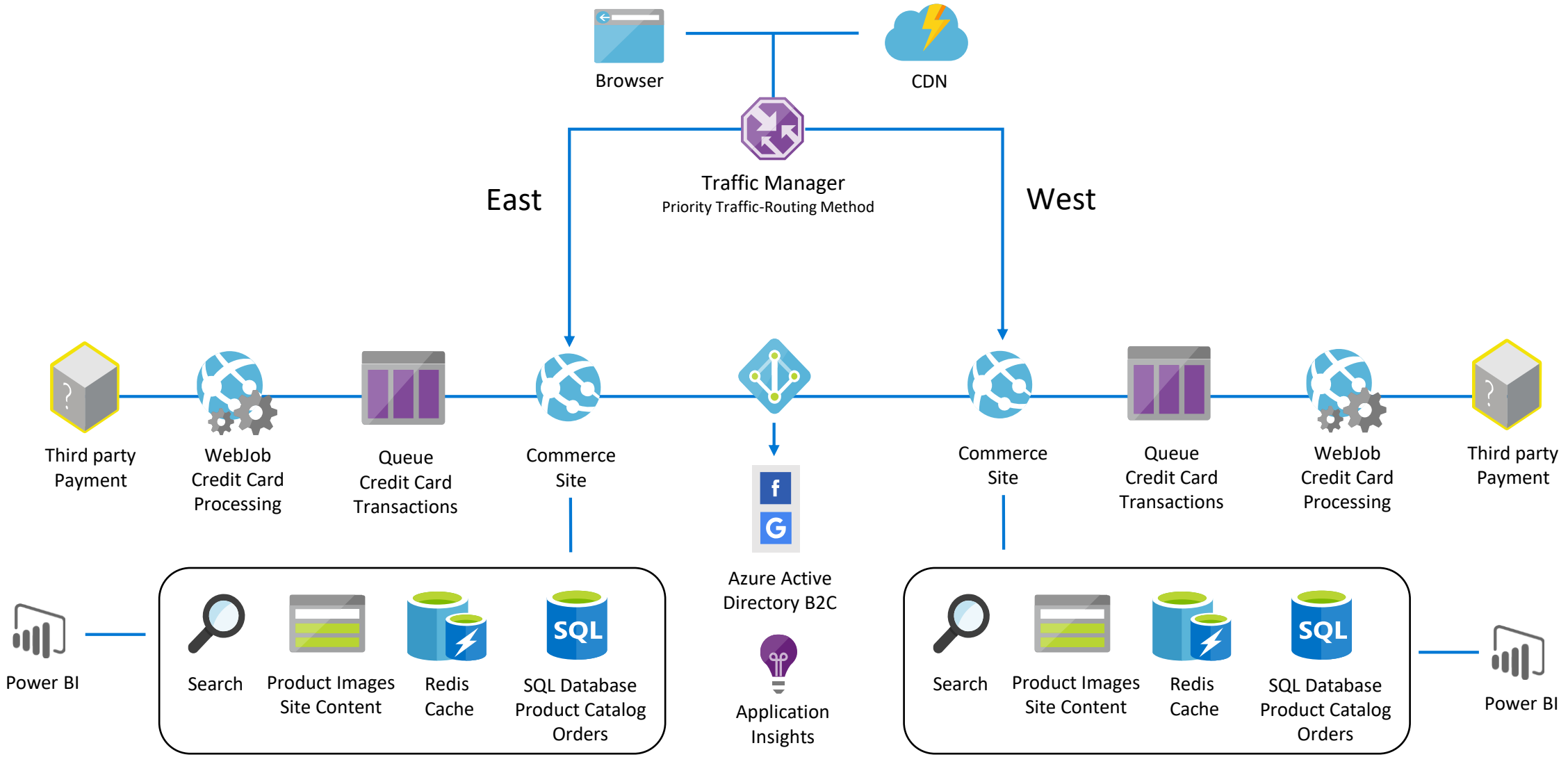
You can reach on premises resources if VNet uses a Site to Site VPN to reach the on premises network. This does not work with ExpressRoute.



App Service w/ Traffic Manager

DevOps Project

Fault-tolerant E-Commerce with personalized recommendations



App Service

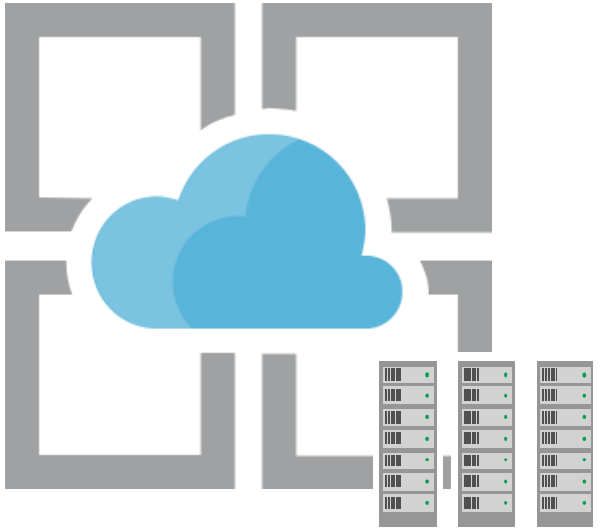
From on-premises to the cloud

AZURE APP SERVICE (MULTI-TENANT)

Get your Web, API, or Mobile App created in seconds in the cloud. We provide the infrastructure, you provide your application code.

APP SERVICE ENVIRONMENT

Run your apps in virtual network at high scale. Manage all of the resources behind your public endpoint creating an isolated environment specifically for your organization.



AZURE STACK

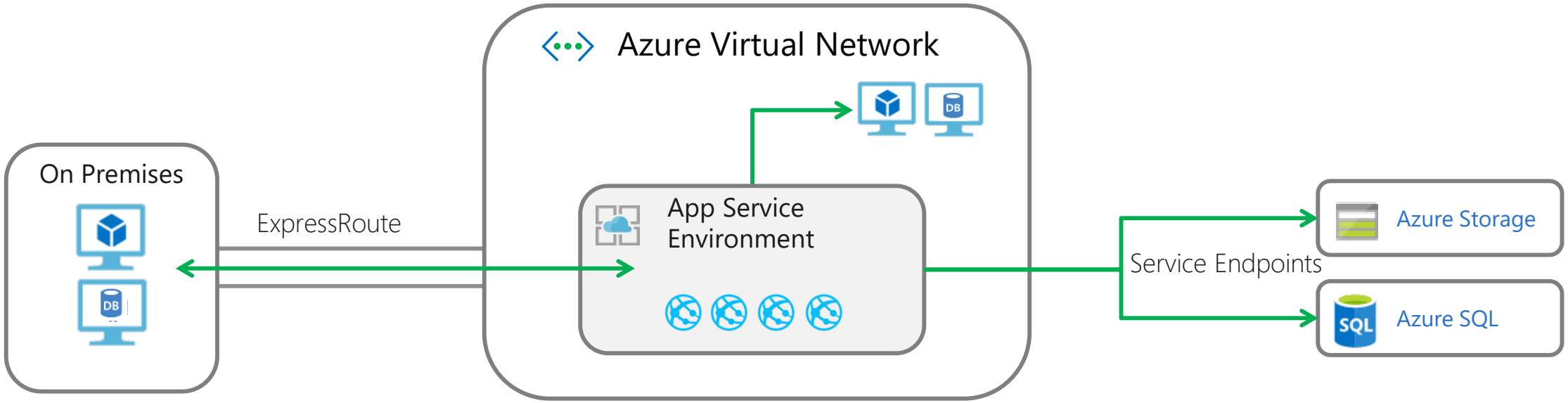
Leverage cloud innovations in on-premises infrastructure. App Service on Azure Stack brings the power of Azure App Service to your own data centers.

App Service Environment (ASE)

Scenario: Access resources in your Azure VNet

Example: Line of business sales application that is on a private IP address and uses SQL and Storage

ExpressRoute makes the Azure VNet a part of your on premises network. Access to your apps should be automatic unless blocked. By using an ILB ASE you can host internal applications on the public cloud but isolated from the internet.



Thank You!