

Azure Dev Day

Learn, architect, and develop solutions on Azure



#AzureDevDays for developers, by developers

Learn.

Connect.

Explore.



Azure App Service

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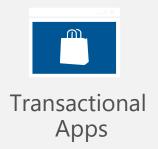
Learn.

Connect.

Explore.

Industry-leading Application PaaS Platform







Digital Marketing



LoB App Modernization

Application

Insights

Services



compute

Platform

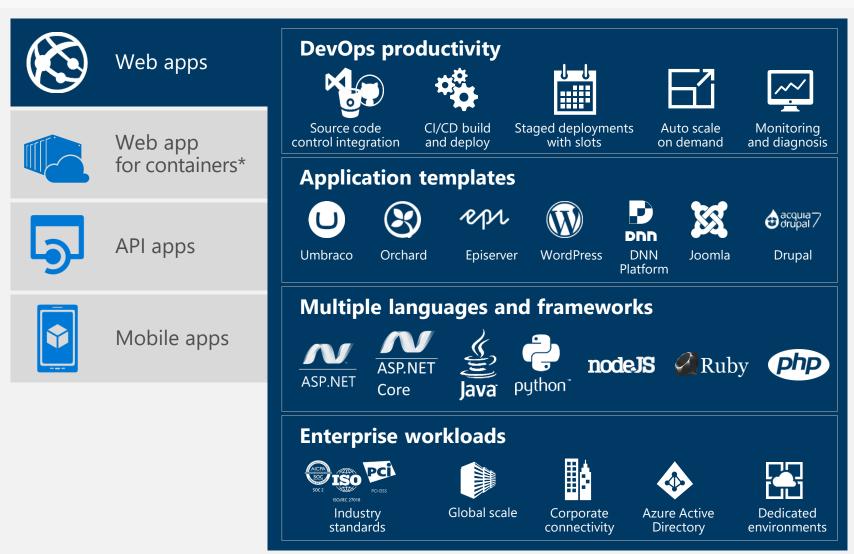


App Service

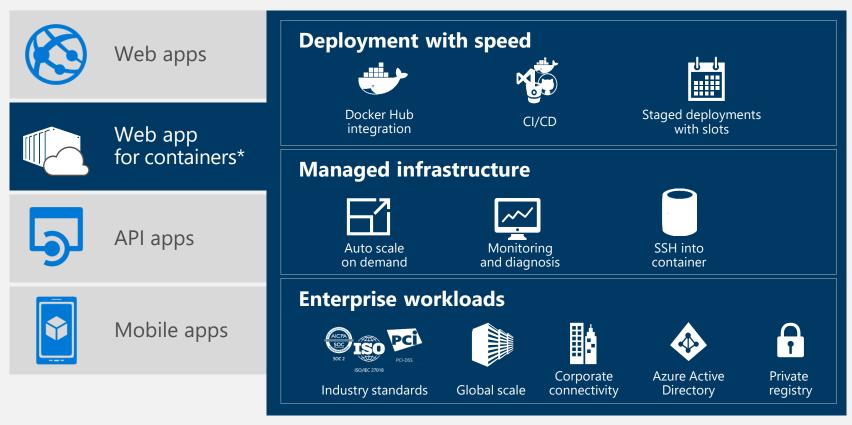
Integration

Fully Managed Platform • High Productivity Development • Enterprise Grade Apps

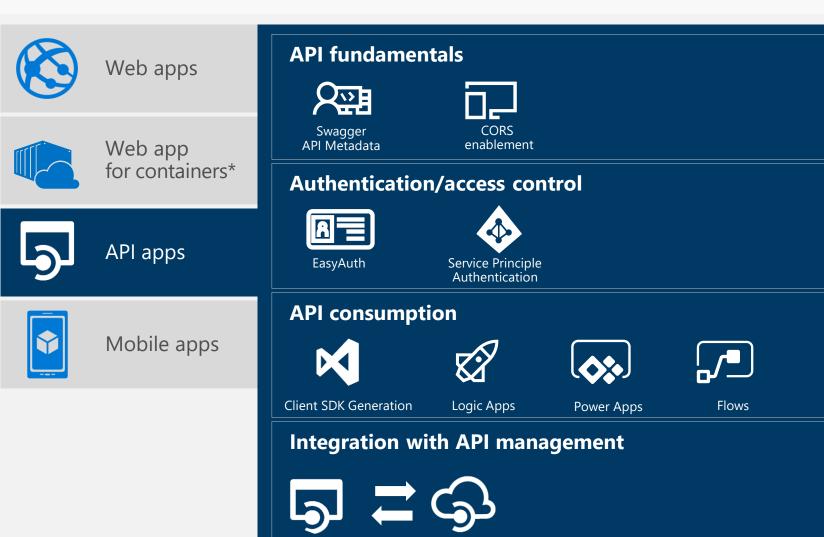


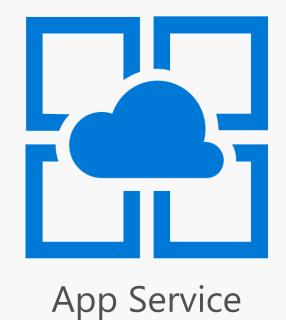


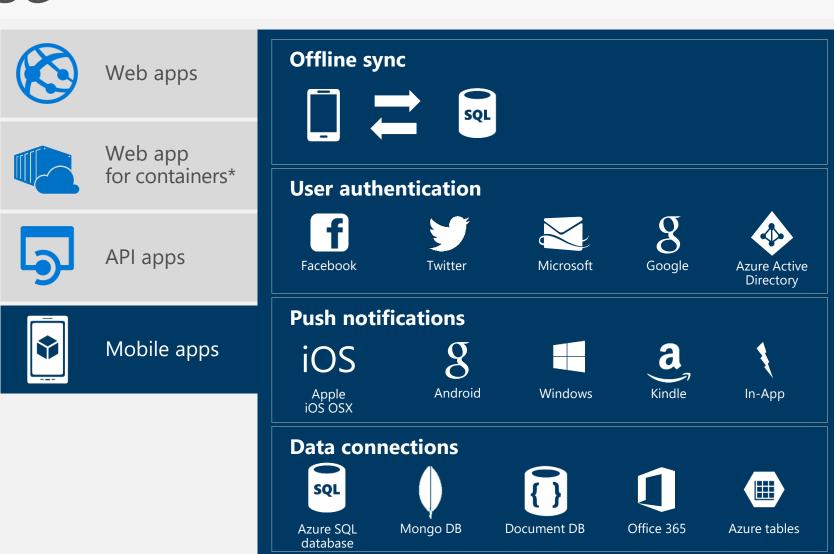


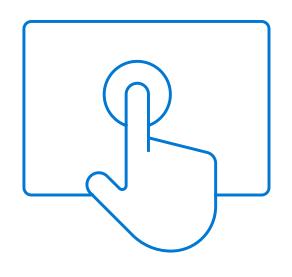








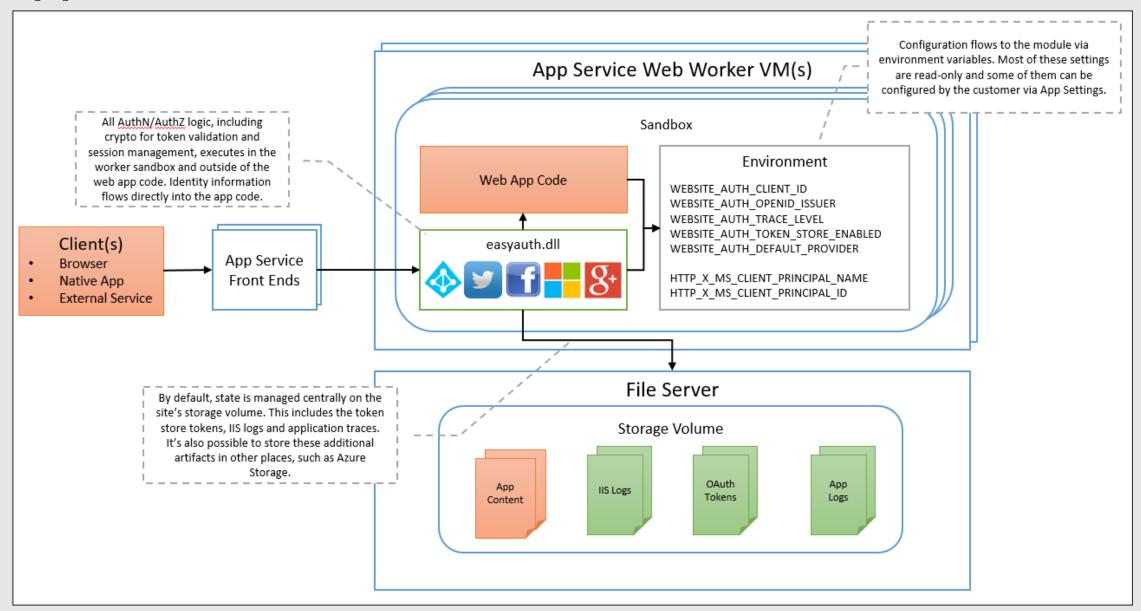




Getting Started Demo

Create a simple web app Broad set of capabilities Staging Slots

App Service Architecture

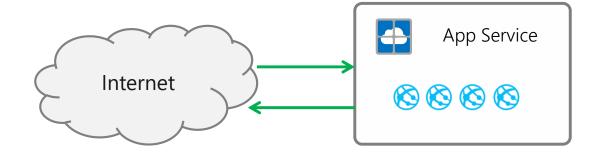




App Service Networking

Getting started with DevOps Project

Default behavior

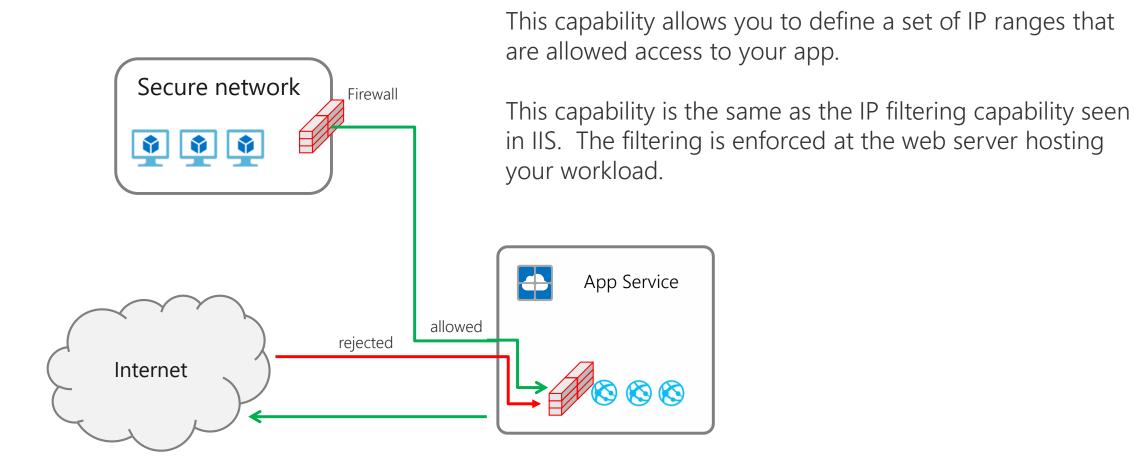


Inbound traffic to your app hits an IP address that is shared with the other apps.

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.

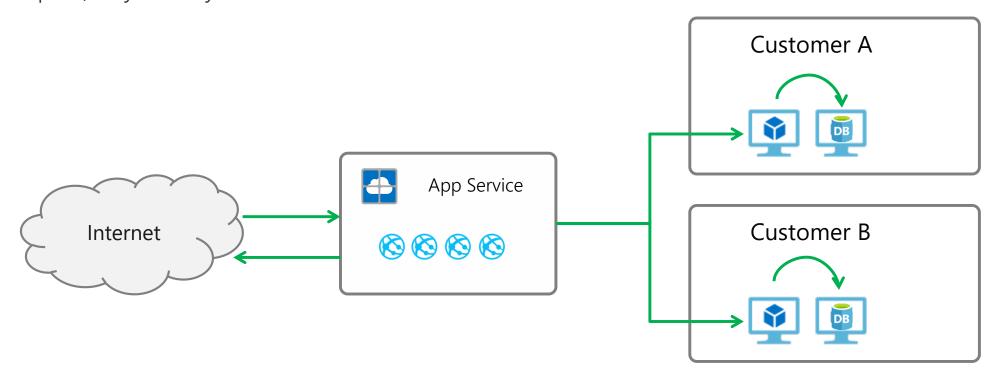


Hybrid Connections

Scenario: Access into networks lacking a VPN to Azure

Examples: Inventory management service that needs access into customer databases

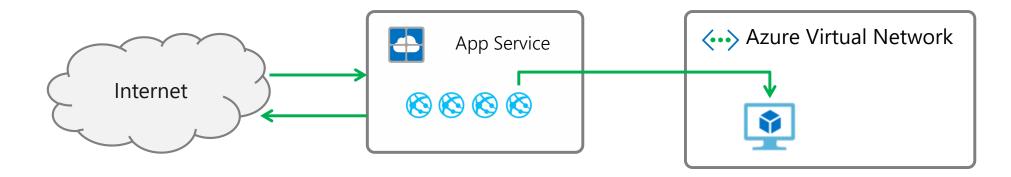
Outbound backend calls from your app can reach TCP endpoints (host:port) in your any network that can access the internet.



VNet Integration

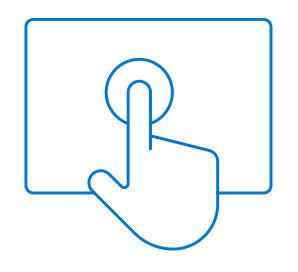
Scenario: Access resources in your Azure VNet

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/ Front Door / Traffic Manager

App Service Load Balancing

Front Door

Azure Front Door Service is Microsoft's highly available and scalable web application acceleration platform and global HTTP(s) load balancer. It provides built-in DDoS protection and application layer security and caching.F ront Door enables you to build applications that maximize and automate high-availability and performance for your end-users.

Use Front Door with Azure services including Web/Mobile Apps, Cloud Services and Virtual Machines – or combine it with on-premises services for hybrid deployments and smooth cloud migration.

Below are some of the key scenarios that Azure Front Door Service addresses:

- Use Front Door to improve application scale and availability with instant multi-region failover
- Use Front Door to improve application performance with SSL offload and routing requests to the fastest available application backend.
- Use Front Door for application layer security and DDoS protection for your application.

App Service Load Balancing

Traffic Manager

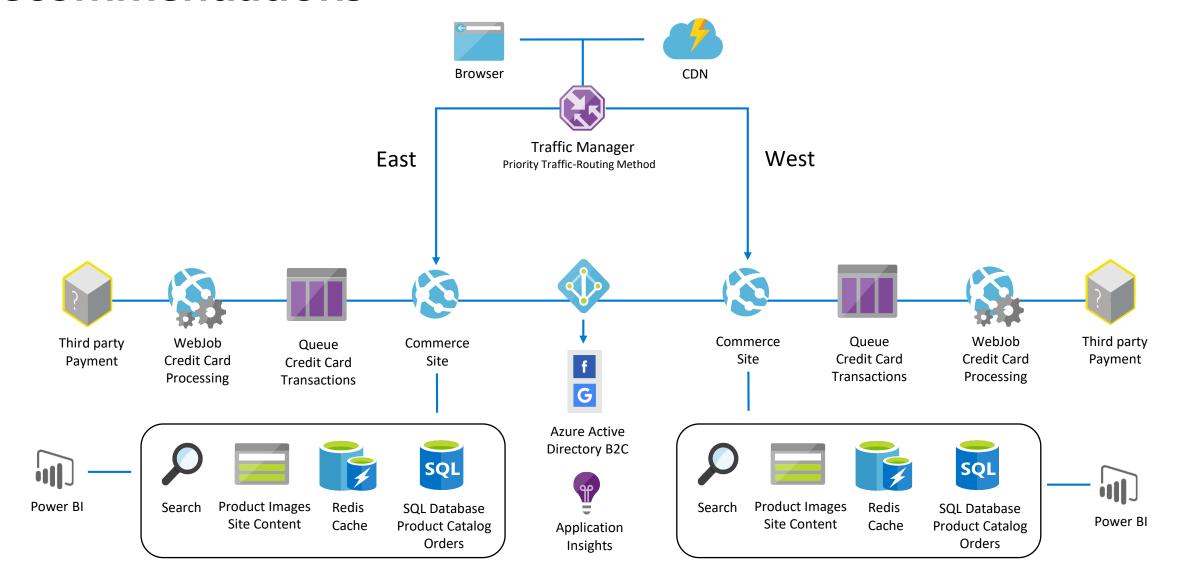
Azure Traffic Manager helps reduce downtime and improve responsiveness of important applications by routing incoming traffic across multiple deployments in different regions. Built-in health checks and automatic re-routing help ensure high availability if a service fails.

Use Traffic Manager with Azure services including Web Apps, Cloud Services and Virtual Machines - or combine it with on-premises services for hybrid deployments and smooth cloud migration.

Use Traffic Manager to:

- Improve app availability with automatic failover.
- Increase your app's responsiveness by routing end users to the Azure location with lowest network latency.
- Seamlessly combine on-premises and cloud.

Fault-tolerant E-Commerce with personalized recommendations



App Service From on-premises to the cloud



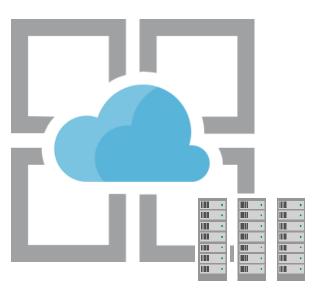
AZURE APP SERVICE (MULTI-TENANT)

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

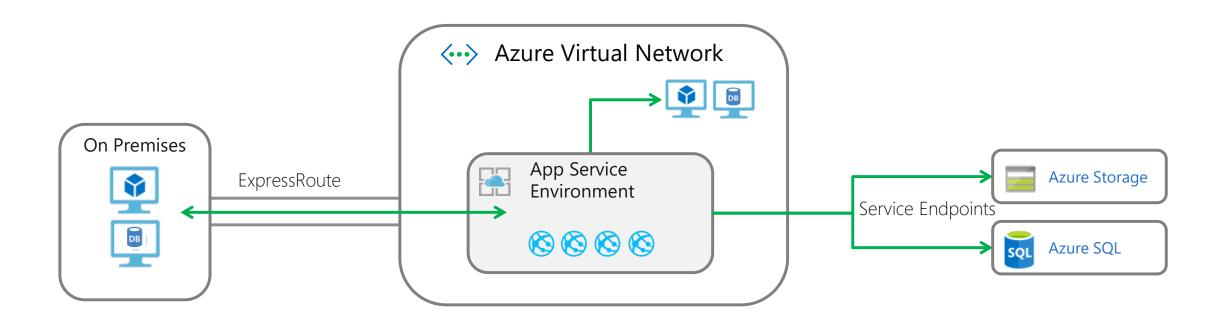
Leverage cloud innovations in on-premises infrastructure. App Service on Azure Stack brings the power of Azure App Service to your own data centers.

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!