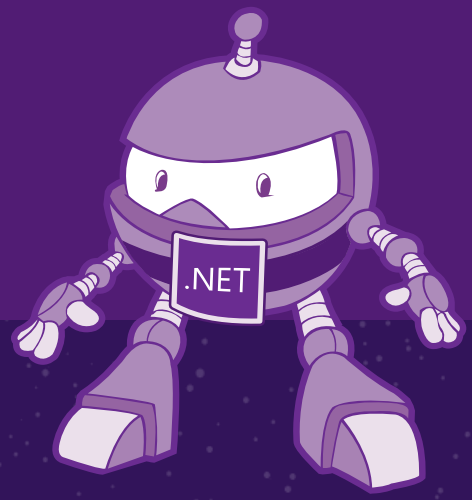

.NET Conf 2019
Discover the world of .NET
.NET
dotnet new
www.dotnetconf.net

¿Qué hay de nuevo en Azure Web Apps y Azure Functions?

Ernesto Cárdenas Cangahuala
www.consultorinternet.com @fisica3



MVP Microsoft® Most Valuable Professional

About me

- Ernesto Cardenas Cangahuala
- Microsoft MVP
- Arquitecto Cloud
- www.consultorinternet.com
- @fisica3

Agenda

- Revisando
- Monitoreo de Web Apps
- Functions Premium e integración VNET

Azure App Service

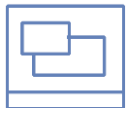
- Fully Managed Application Platform
- Deploy your stack natively or with containers (Node, PHP, .NET, Python)
- Support custom domains, SSL certificates, single sign-on
- Plug into Azure's wide variety of services
  - Load Balancing
  - CI/CD
  - Managed Databases

Azure app service

Multiple languages and frameworks

Scalability and high availability

DevOps optimization, security, and compliance



Templates, IDE integration, serverless, and much more…

Azure app service

Fully managed compute platform

Optimized for hosting websites and web apps

Windows and Linux natively or Containers

Options for very high scale,
isolated environments

New App Service Integration with Azure Monitor (preview)

Log Name	Windows	Linux
AppServiceConsoleLogs	TBA	✔
AppServiceHTTPLogs	✔	✔
AppServiceEnvironmentPlatformLogs	✔	✔
AppServiceAuditLogs	✔	✔
AppServiceFileAuditLogs	TBA	TBA
AppServiceAppLogs	TBA	✔ *

https://azure.microsoft.com/en-in/updates/new-app-service-integration-with-azure-monitor-preview/

Demo: Azure Monitor y Web Apps

Server **less**

What is Serverless?

Full Abstraction of servers

Event-driven/ instant scale

Pay-per-use

Azure Functions: event driven serverless compute

Events

React to timers, HTTP, or events from your favorite Azure services

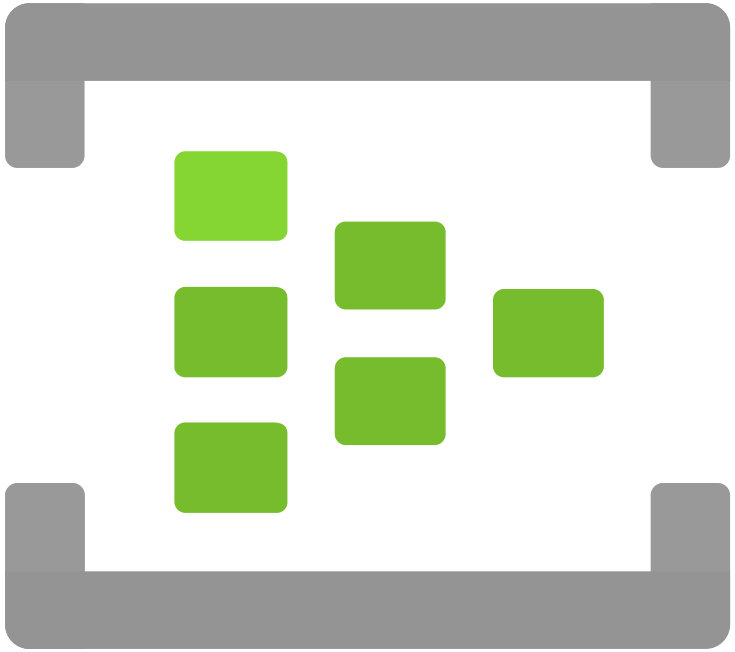
Code

Author functions in C#, F#, JavaScript, TypeScript, Java, Python, PowerShell

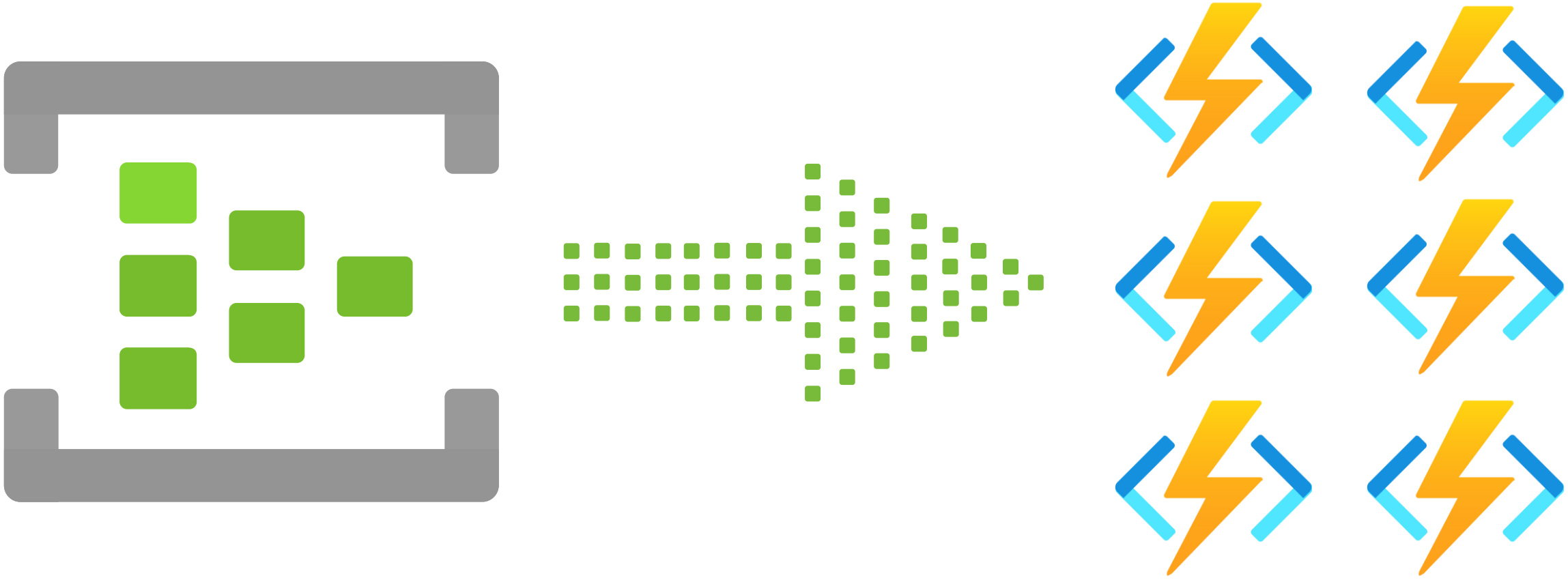
Outputs

Send results to a growing collection of services

Azure Functions: dynamic scale based on events



Azure Functions: dynamic scale based on events



Azure Functions Premium: now GA

	Consumption Plan	*-New-* Premium Plan (Preview)
Instance Size	Fixed at one core and 1.5Gb of memory	Configurable up to 4 cores and 14Gb of memory
Scaling	Event driven scaling	Event driven scaling
Scale Controls	None	Set min and max instances
Private Networking	None	VNET integration
Warmup Time (Cold Start)	Your app must be loaded after it is inactive	No delay after your app is inactive and scale instantly to pre-warmed instances
Cost	Consumption	Consumption and at least 1 pre-warmed instance per plan

https://azure.microsoft.com/en-us/updates/azure-functions-premium-plan-is-now-generally-available/

Regional Vnet Integration

Scenario: App access to resources in your VNet, across Service Endpoints and across ExpressRoute
Multi-tier web applications—when combined with service endpoints

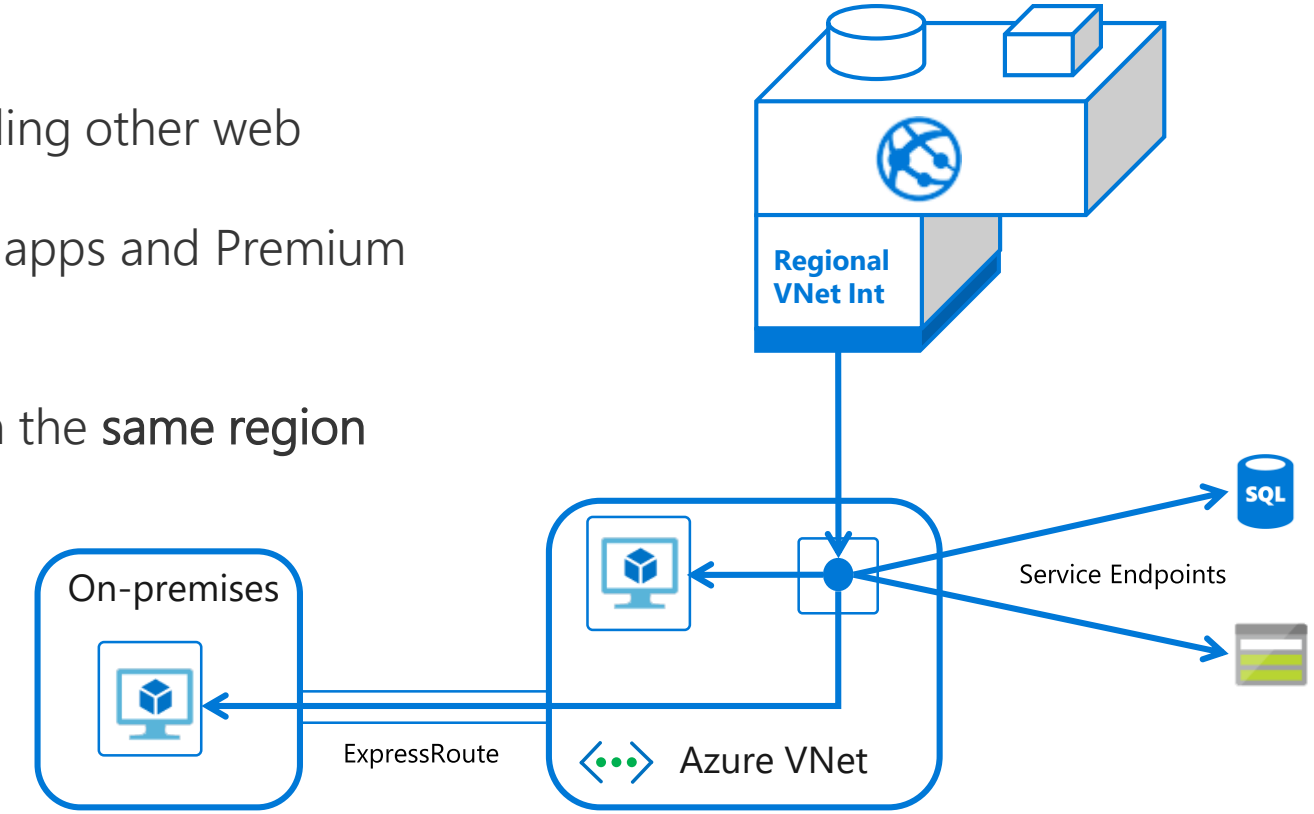
Enables the backend of your app to be directly in your VNet.
Outbound calls from your app can reach

- Endpoints in your VNet
- Across ExpressRoute
- Service Endpoint secured services, including other web apps

Available for Windows web apps, Linux web apps and Premium Functions

Only works with Resource Manager VNets in the **same region**

https://docs.microsoft.com/en-us/azure/app-service/web-sites-integrate-with-vnet



Regional Vnet Integration - Status

Windows Web app VNet Integration planned GA	December 2019
Linux Web app VNet Integration planned GA	Q1CY2020
Access to all IPv4 ranges supported	December 2019
Routing support on all IPv4 traffic (available now in some regions)	December 2019

No support dates yet for:

- Managed NAT or load balancer
- global peering
- service endpoint policies
- Network Watcher
- putting anything else in the integration subnet
- using VNet Integration across subscriptions
- multiple App Service plans being able to use the same subnet
- increasing the number of VNet Integrations per App Service plan
- VNet Integration working with Azure DNS private zones

https://myignite.techcommunity.microsoft.com/sessions/81601

Demo: VNET y Functions

.NET

Thank you!

Ernesto Cárdenas Cangahuala
www.consultorinternet.com @fisica3