



GLOBAL INTEGRATION BOOTCAMP

Saturday March 24th 2017
UK event sponsored by BizTalk360





Agenda

- Azure is not simple
- A step into my personal experience
- How to handle Azure
- Best practices and recommendations

Important note from the speaker

This is and Interactive Session

@AzureLeap

azureleap.com

About me

- Global Azure Lead @HexagonMI
 - *“Responsible for leading the Microsoft Azure Cloud area, supporting and advising the company to select the most appropriate cloud strategies and solutions from high-level design to implementation.”*
(source LinkedIn)
- Expertise areas
 - Cloud, Cybersecurity and Integration
- Technology passionate
- Blogger, Microsoft MVP and Chicken Way evangelist





HEXAGON
MANUFACTURING INTELLIGENCE

www.hexagonmi.com



Aerospace

Engineering solutions for verification, validation and traceability in aerospace industry manufacturing and aircraft assembly



Power & Energy

Powering efficiencies in the energy and power generation industry with large-volume measurement and precision part production



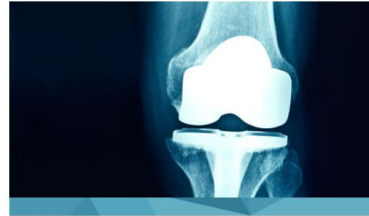
Heavy Industry

Providing metrology on a large scale to make lighter work of heavy industry through data-driven manufacturing



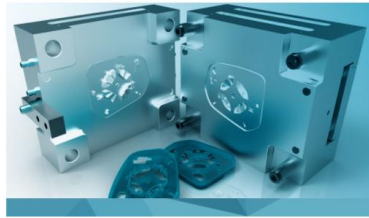
Automotive

Ensuring speed and quality in automotive industry plants to drive measurable vehicle performance on the road



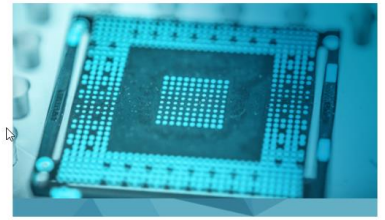
Medical

The medical technology industry is a uniquely challenging space for manufacturers, with demanding regulatory requirements reinforcing demand for functionally flawless...



Tooling, Mould & Die

Enabling fast and reliable manufacturing processes through the accurate production of tooling, moulds and dies



Electronics

Inspecting the intricate components inside the computer, communications and consumer electronics devices that connect the modern world



General Manufacturing

Balancing tolerances with throughput to optimise general manufacturing processes and maximise productivity whatever the application.

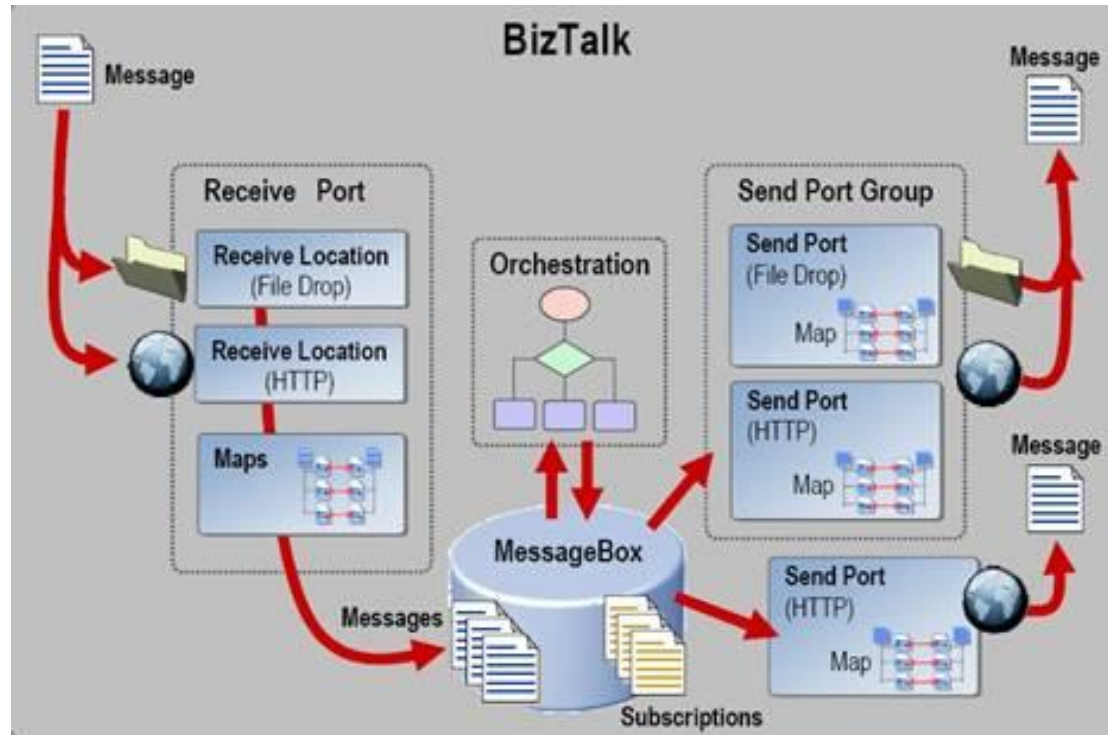


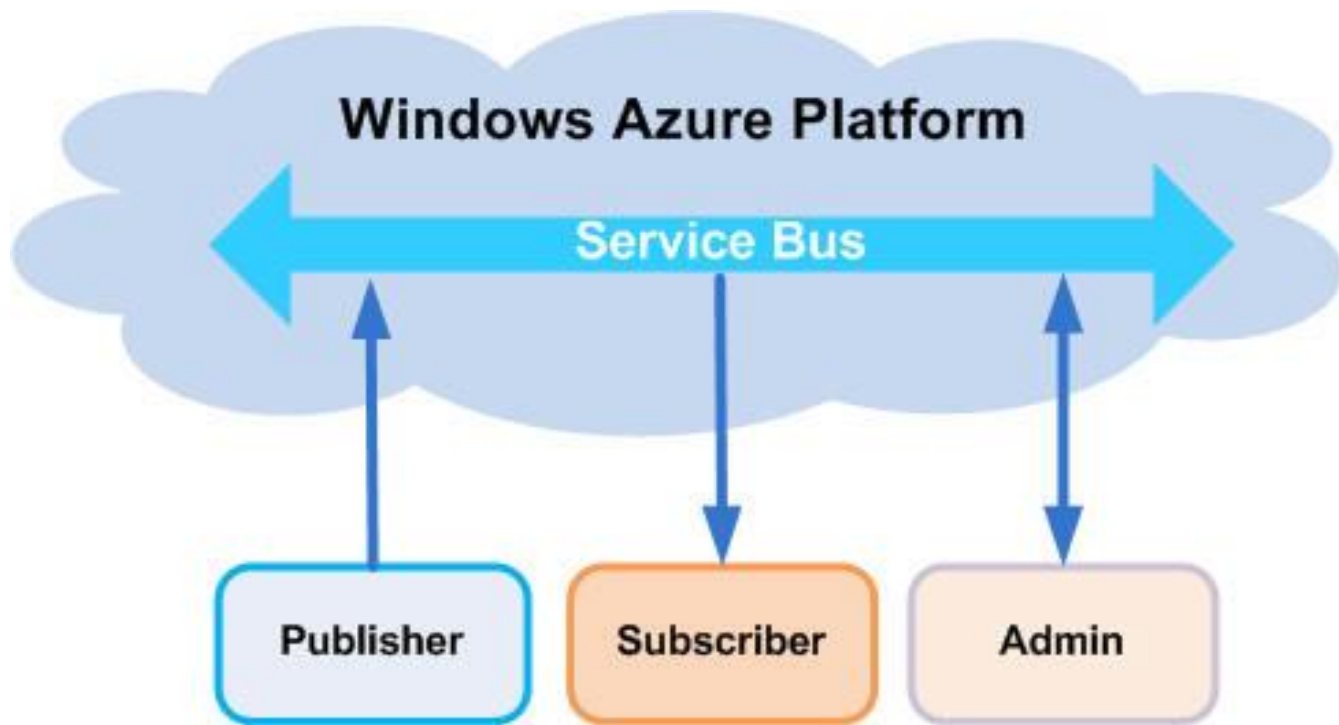
Other Cool Stuff

Other specialist, unique and interesting applications of measurement technology in industrial manufacturing and beyond



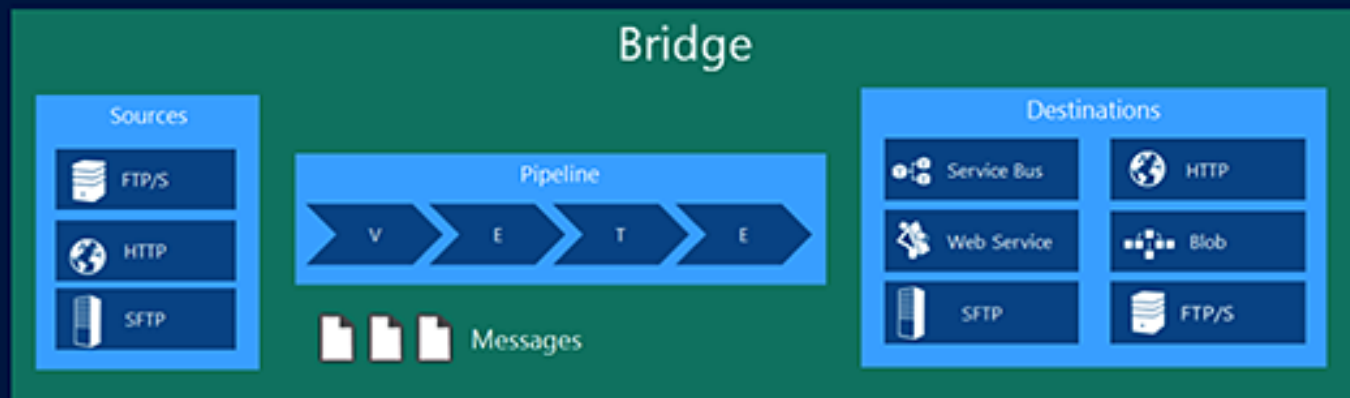
INTRODUCTION







Bridges in BizTalk Services



Basic building block for building your integration platform



Triggers and actions

LOGIC APP



Save



Discard



Designer



Code view



Zoom in



Zoom out



HOME



NOTIFICATIONS



BROWSE



ACTIVE



BILLING



NEW



Recurrence



Recurring schedule

Frequency

Hours

Interval

1



Twitter Connector



Search Tweets

Specify a query to retrieve tweets.

MicrosoftAzure

▼ body

Tweet Text

Retweet Count

Tweeted By

...



Twilio Connector



Send Message

From Phone Number

555 555 5555

To Phone Number

Text

|

Search Tweets Tweeted By

✓ Search Tweets Tweet Text

API Apps in this resource group



Microsoft SQL Connector
Microsoft



BizTalk Rules
Microsoft



Twilio Connector
Microsoft



Twitter Connector
Microsoft



Yammer Connector
Microsoft



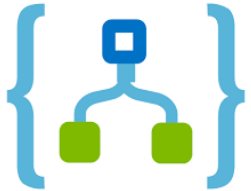
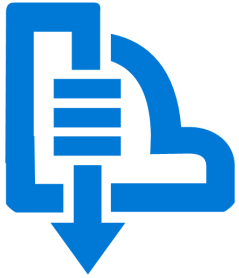
HTTP
Microsoft



Recurrence
Microsoft



Interested in more API Apps?
[Visit the Marketplace](#)



101 cards

<http://azureinteractives.azurewebsites.net/Azure101Cards/default.html>

Compute

- Virtual Machines
- Virtual Machines Scale Sets
- App Service
- Functions
- Container Service
- Container Instances
- Batch
- Service Fabric
- Cloud Services

Networking

- Virtual Network
- Load Balancer
- Application Gateway
- VPN Gateway
- Azure DNS
- Content Delivery Network
- Traffic Manager
- ExpressRoute
- Azure DDoS Protection

Storage

- Storage
- Blob Storage
- Queue Storage
- File Storage
- Disk Storage
- Data Lake Store
- StorSimple
- Backup
- Site Recovery

Web + Mobile

- App Service
- Web Apps
- Web Apps for Containers
- Mobile Apps
- API Apps
- Content Delivery Network
- Media Services
- Azure Search

Containers

- Container Service
- Container Instances
- Container Registry
- Service Fabric
- App Service
- Batch

Databases

- SQL Database
- Azure Database for MySQL
- Azure Database for PostgreSQL
- SQL Data Warehouse
- SQL Server Stretch Database
- Azure Cosmos DB
- Table Storage
- Redis Cache

Data + Analytics

- HDInsight
- Stream Analytics
- Event Hubs
- Data Lake Analytics
- Data Lake Store
- Data Factory
- Azure Analysis Services
- SQL Data Warehouse

AI + Cognitive Services

- Machine Learning
- Azure Bot Service
- Cognitive Services
- Bing Web Search API
- Text Analytics API
- Face API
- Computer Vision API
- Custom Vision Service

Internet of Things

- IoT Hub
- IoT Edge
- Stream Analytics
- Time Series Insights
- Azure Cosmos DB
- Event Grid
- Logic Apps

GLOBAL INTEGRATION BOOTCAMP

The market

The Google logo, featuring the word "Google" in its characteristic multi-colored font (blue, red, yellow, blue, green, red).

Google

The Microsoft logo, consisting of a four-colored square (red, green, blue, yellow) followed by the word "Microsoft" in a grey sans-serif font.

Microsoft

The Amazon logo, featuring the word "amazon" in a black lowercase sans-serif font with a curved orange arrow underneath it.

amazon

The Verizon logo, featuring the word "Verizon" in a bold black sans-serif font with a red checkmark-like symbol at the end.

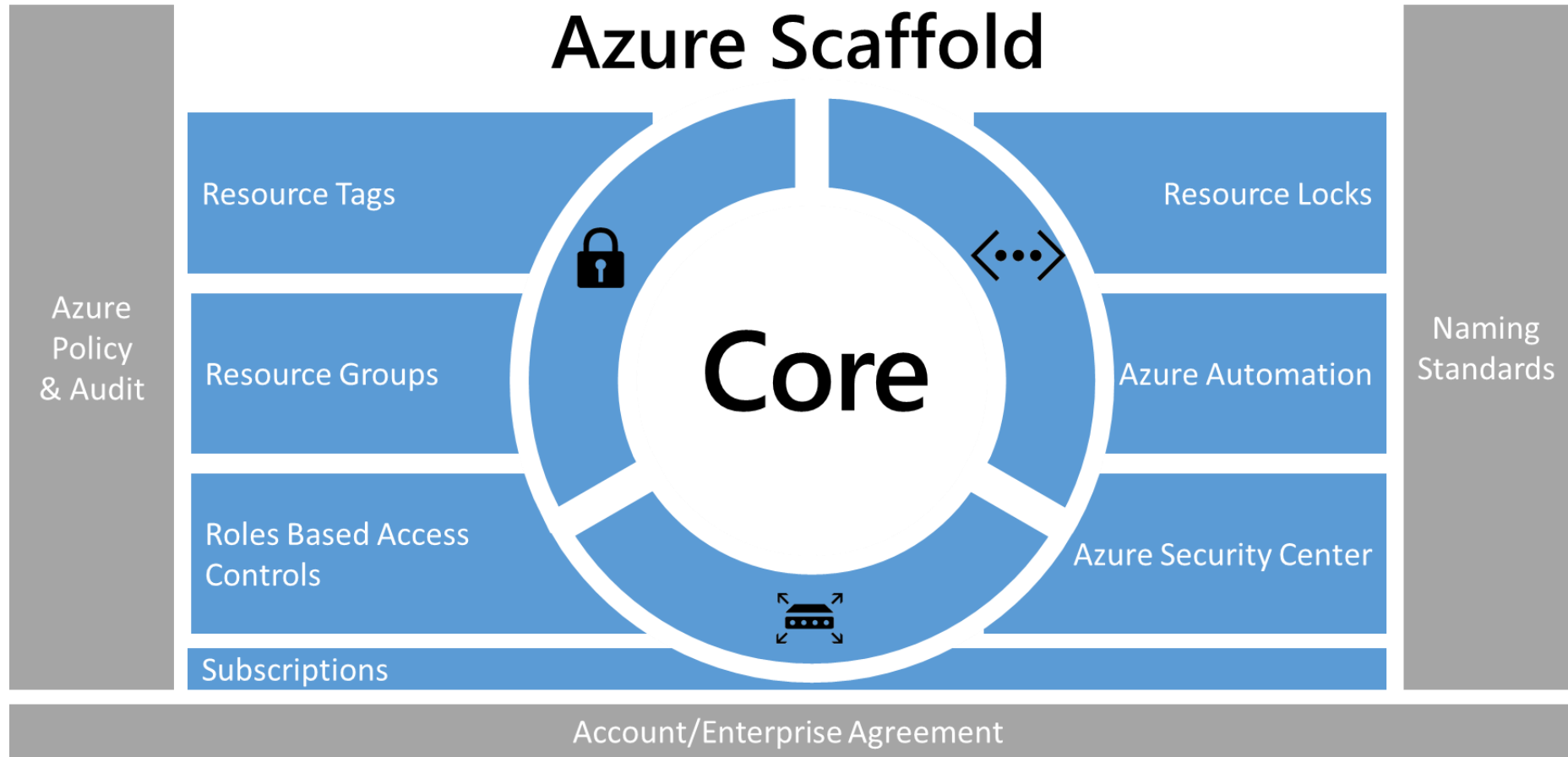
Verizon



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GOVERNANCE

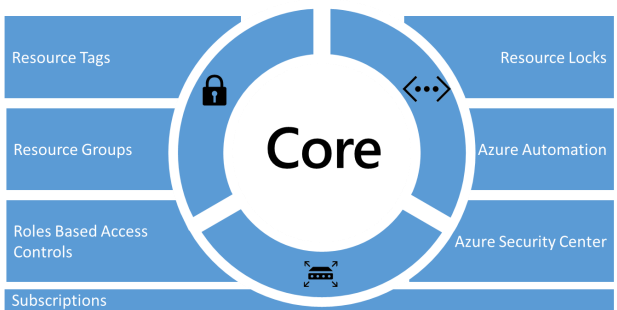
Azure Scaffold



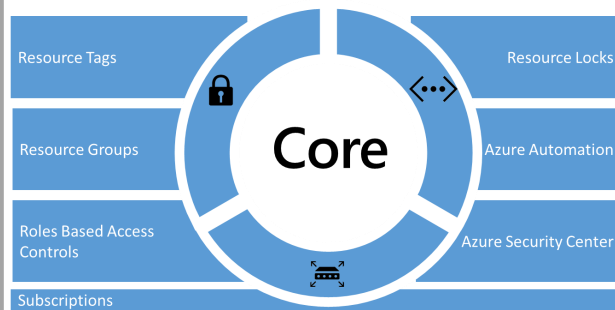




Azure Scaffold



Azure Scaffold



superuser@hotmail.com



STANDARDS AND BEST PRACTICES



Subscriptions



naming standard VS naming convention



AZURE DOCKIT

azuredockit.com

GLOBAL INTEGRATION BOOTCAMP

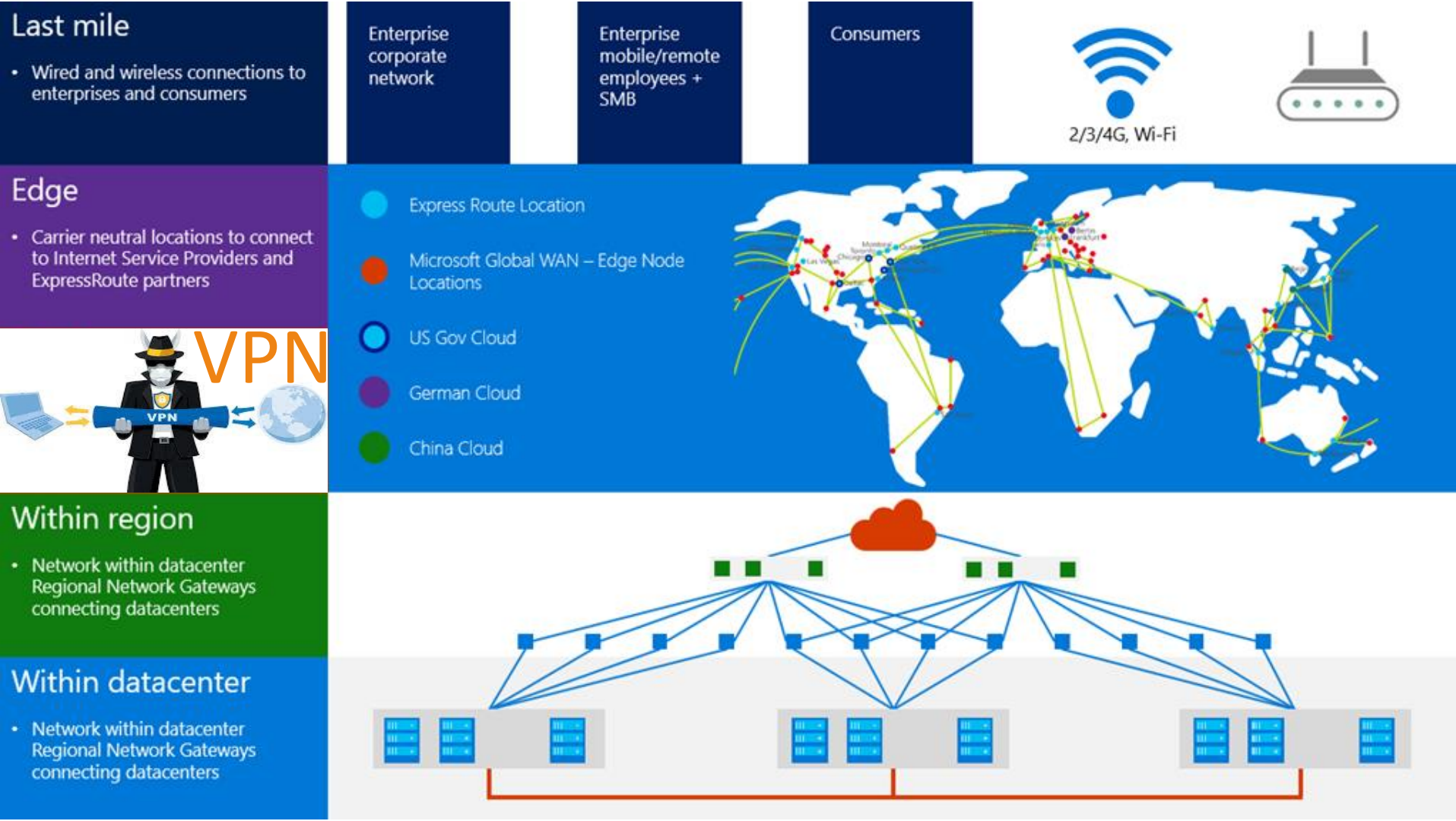


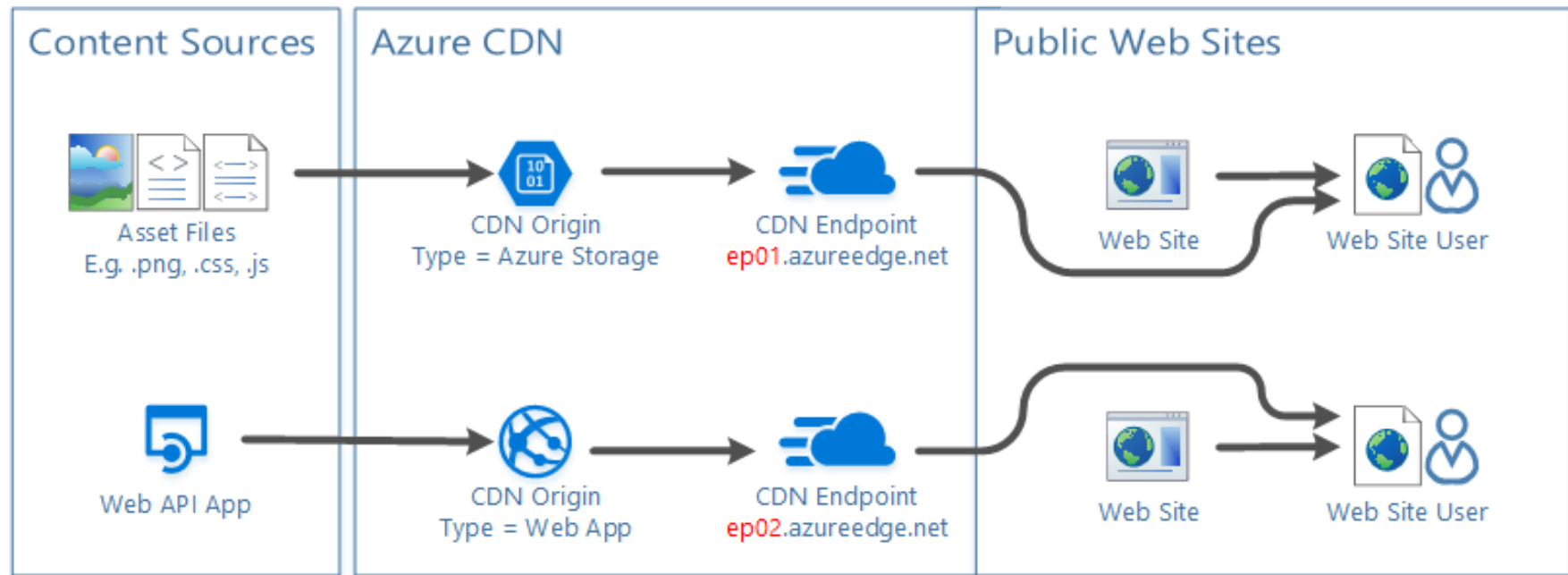
NETWORKING

50 regions worldwide

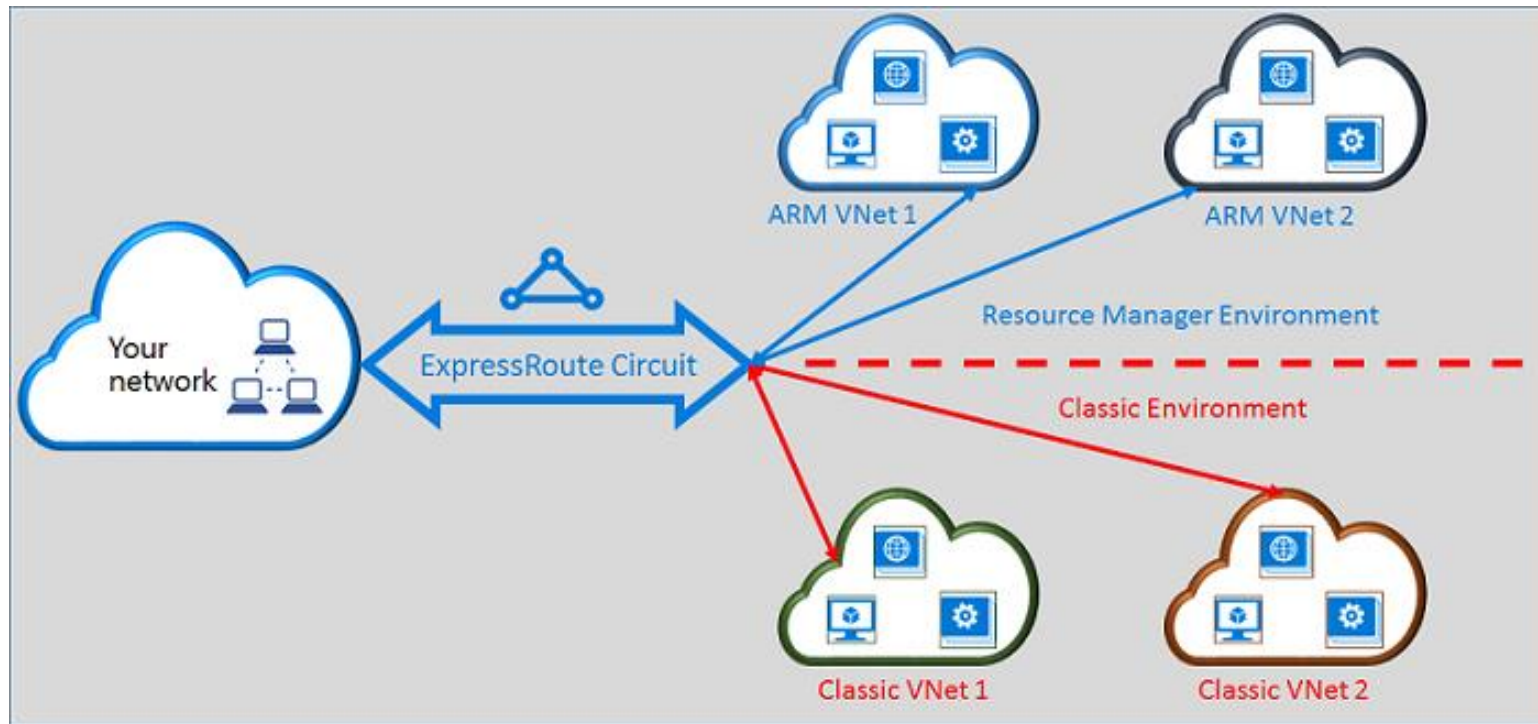
140 available in 140 countries





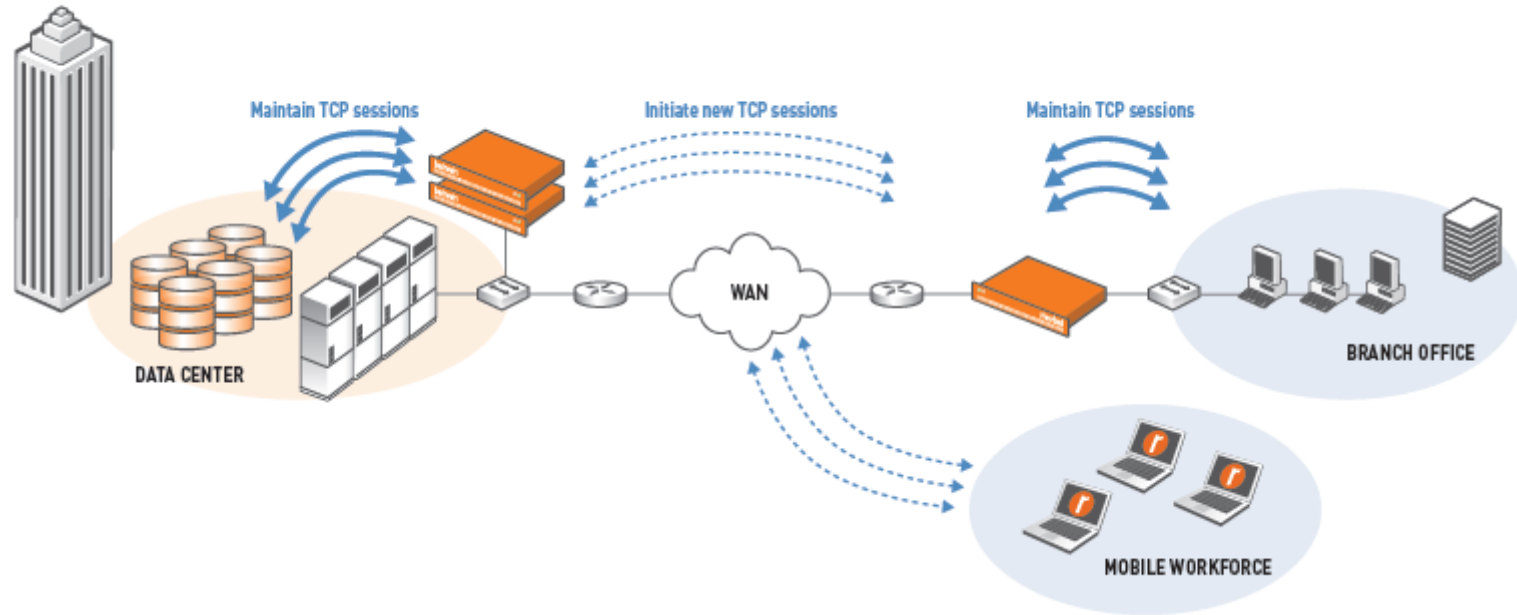


❧ ExpressRoute = Microsoft Network



❧ Riverbed / VeloCloud / Cisco etc..

Typical Steelhead Deployment



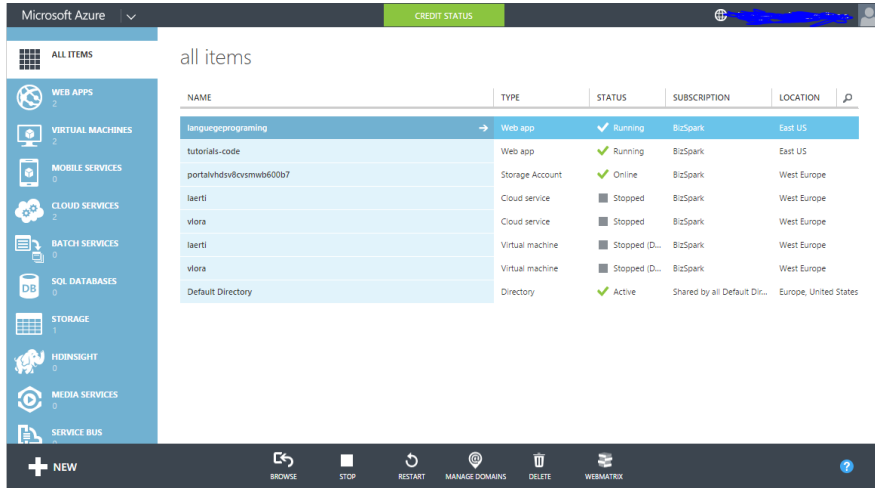


AUTOMATION AND ADMINISTRATION



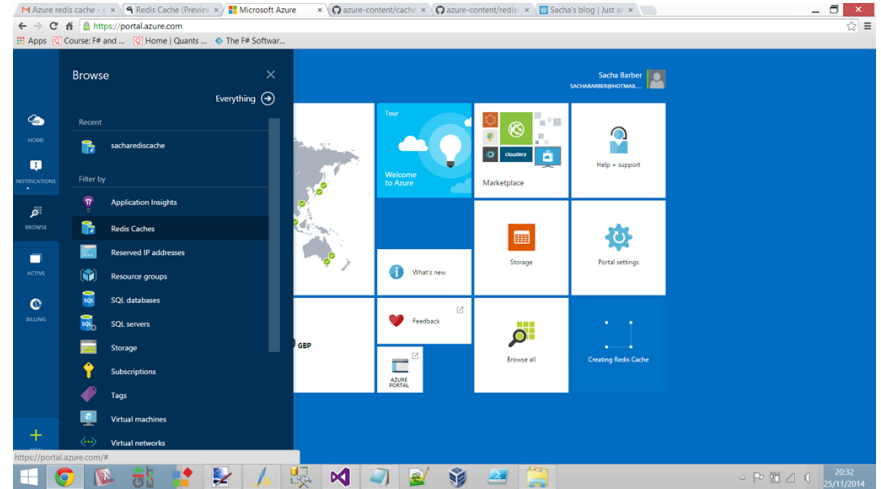
PowerShell

I am sure you are aware of that



The screenshot shows the Microsoft Azure portal interface. On the left is a navigation pane with categories like Web Apps, Virtual Machines, Mobile Services, Cloud Services, Batch Services, SQL Databases, Storage, HDInsight, Media Services, and Service Bus. The main area displays a table of 'all items' with columns for Name, Type, Status, Subscription, and Location.

NAME	TYPE	STATUS	SUBSCRIPTION	LOCATION
languageprogramming	Web app	Running	BizSpark	East US
tutorials-code	Web app	Running	BizSpark	East US
portalvhdsb0csmwb60b7	Storage Account	Online	BizSpark	West Europe
laerti	Cloud service	Stopped	BizSpark	West Europe
vlora	Cloud service	Stopped	BizSpark	West Europe
laerti	Virtual machine	Stopped (D...)	BizSpark	West Europe
vlora	Virtual machine	Stopped (D...)	BizSpark	West Europe
Default Directory	Directory	Active	Shared by all Default Dir...	Europe, United States



[https://azure.microsoft.com/en-us/updates/retiring-virtual-machine-and-cloud-services-from-classic-portal/x`](https://azure.microsoft.com/en-us/updates/retiring-virtual-machine-and-cloud-services-from-classic-portal/x)

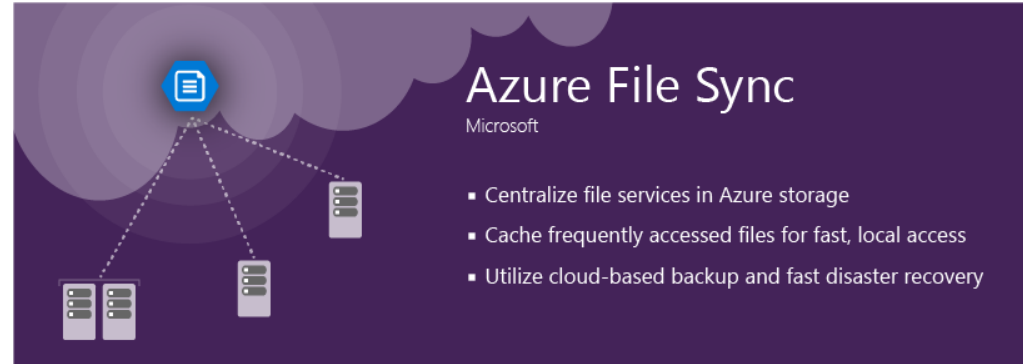
Starting November 15, 2017

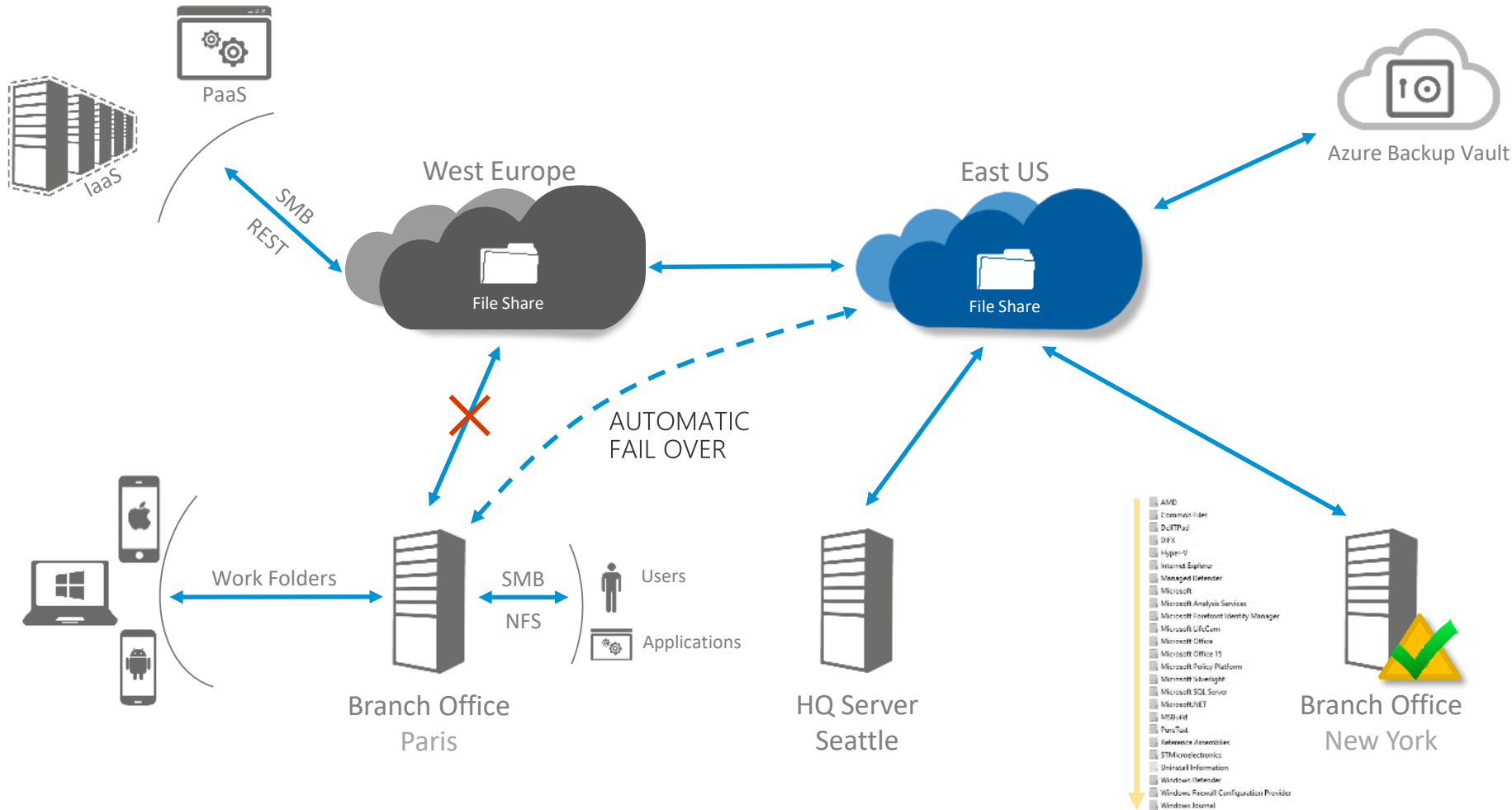
both Azure Virtual Machines and Azure Cloud Services will be available only in the Azure portal.



COLLABORATION

Collaboration







SECURITY AND COMPLIANCE

❖ What the situation is here?

· General Data Protection Regulation



Compliance Manager

Manage your organization's compliance
management activities from one place

servicetrust.microsoft.com



INTEGRATION AND MIGRATION

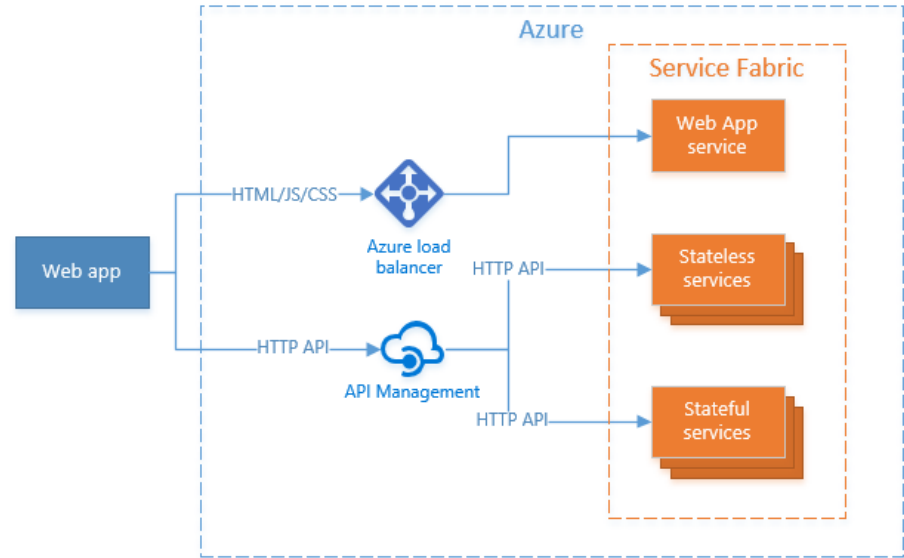
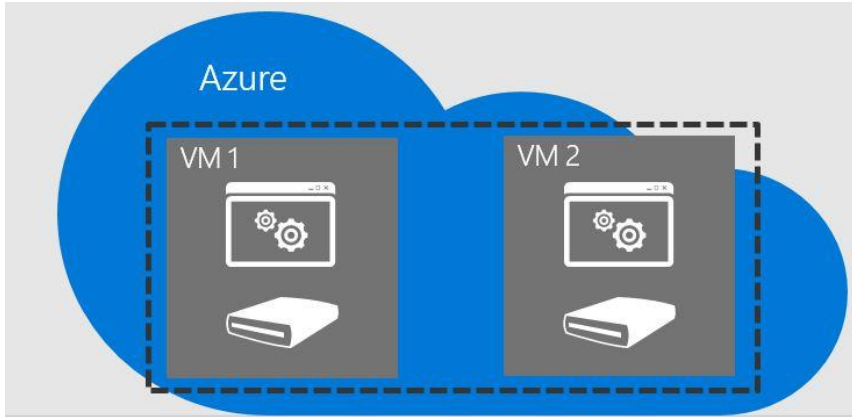


INTEGRATION IS MIGRATION!

Costs calculation

24/7 vs Using

❧ Lift and shift vs refactoring



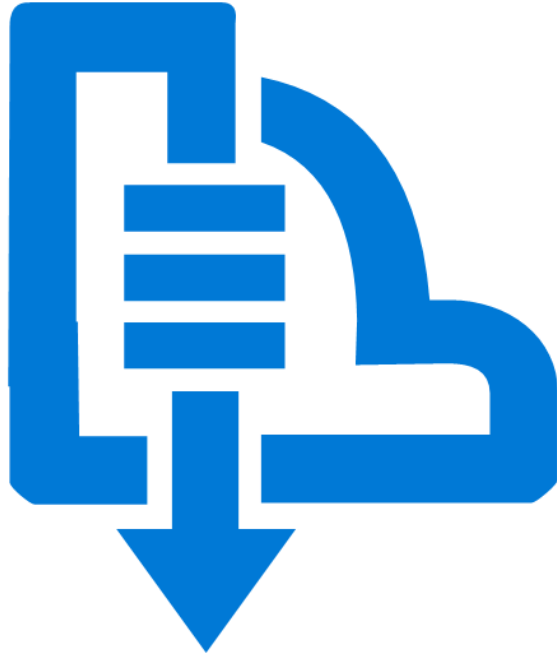


SERVICE INTEGRATION

 Azure is huge

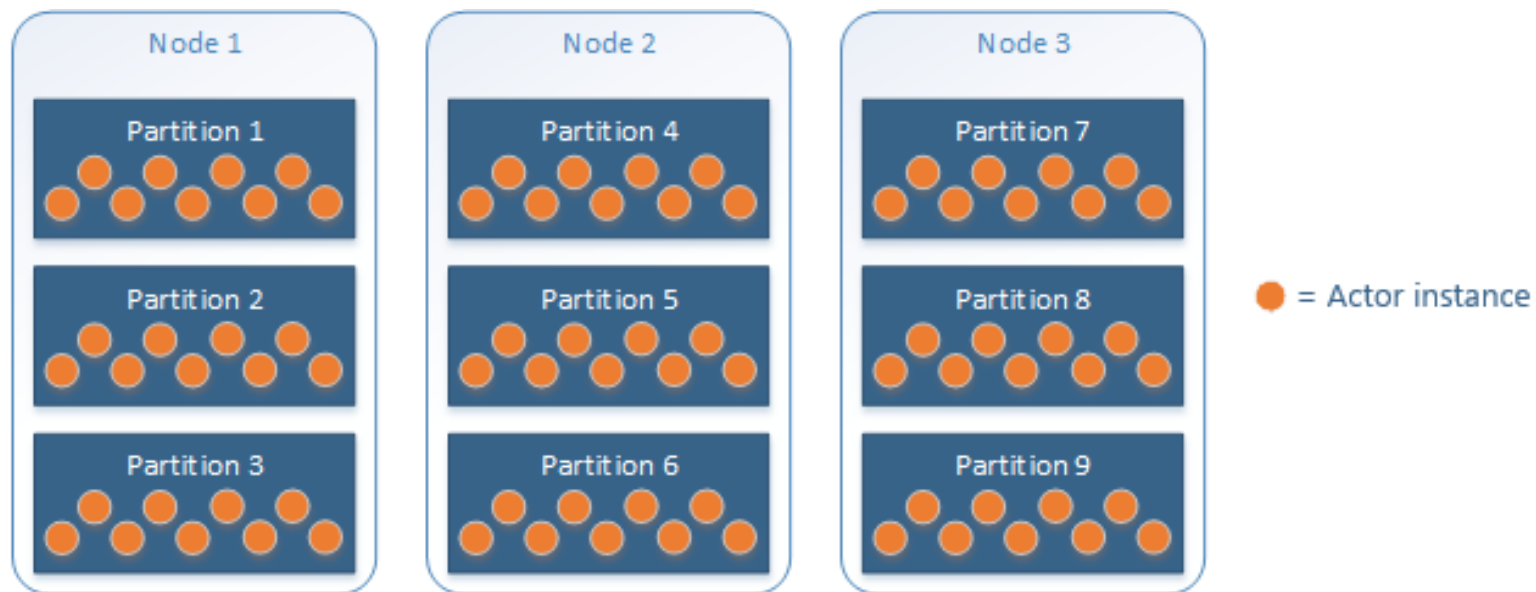
+600 Components

Do we have overlapping?



Service Bus

Microsoft Azure Service Fabric



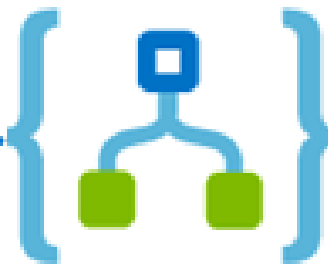


Redis Cache



Orders

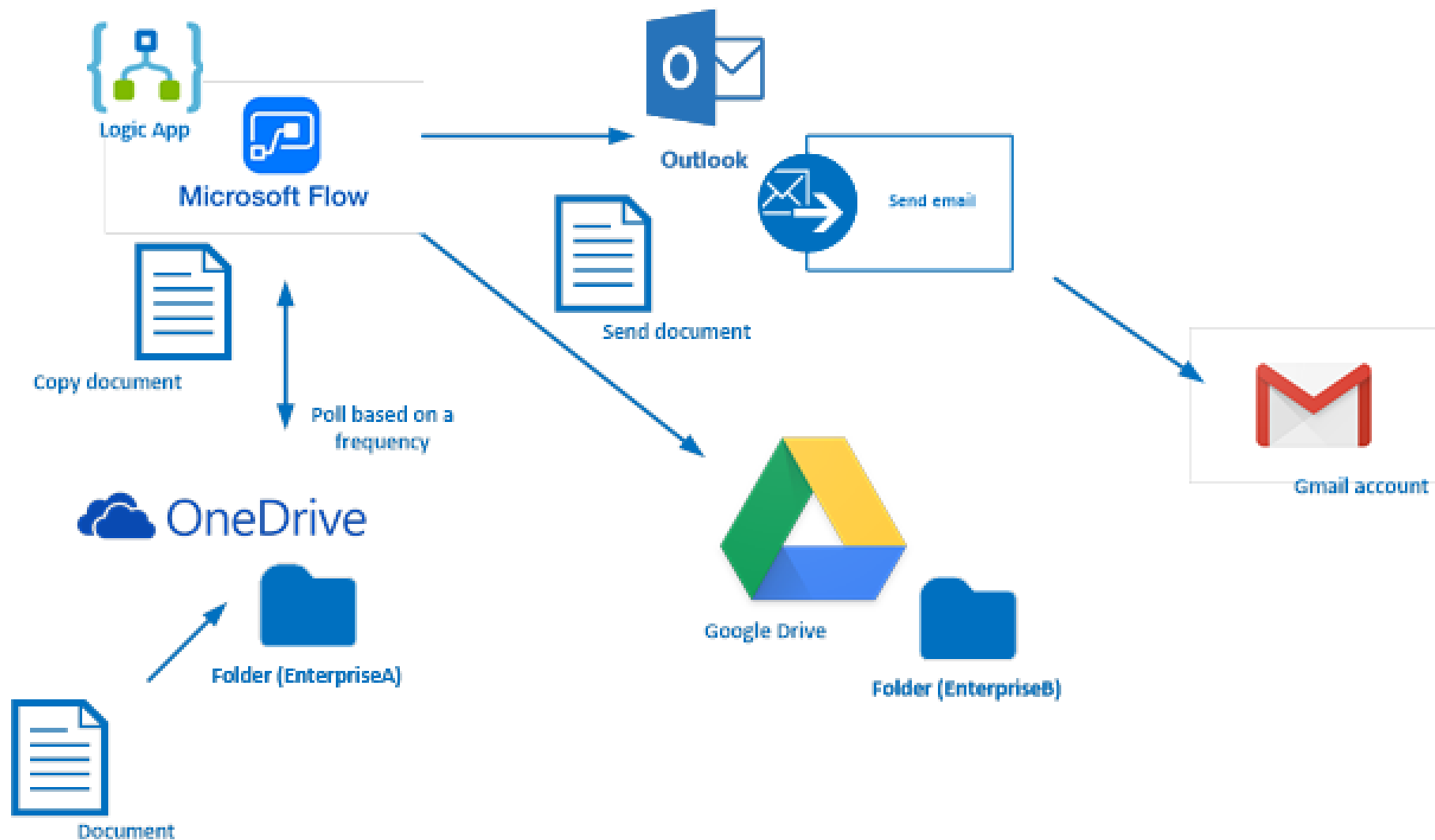
HTTP Endpoint



Logic Apps



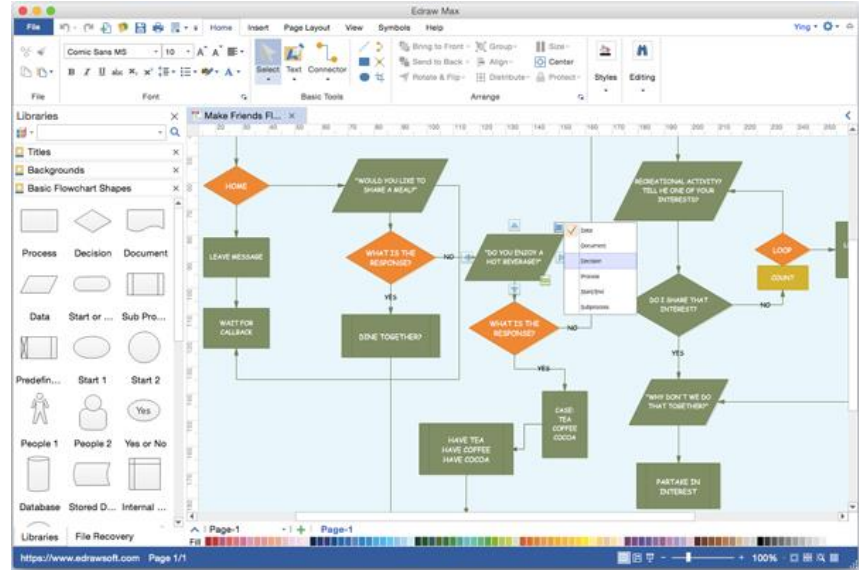
Service Bus
Queue

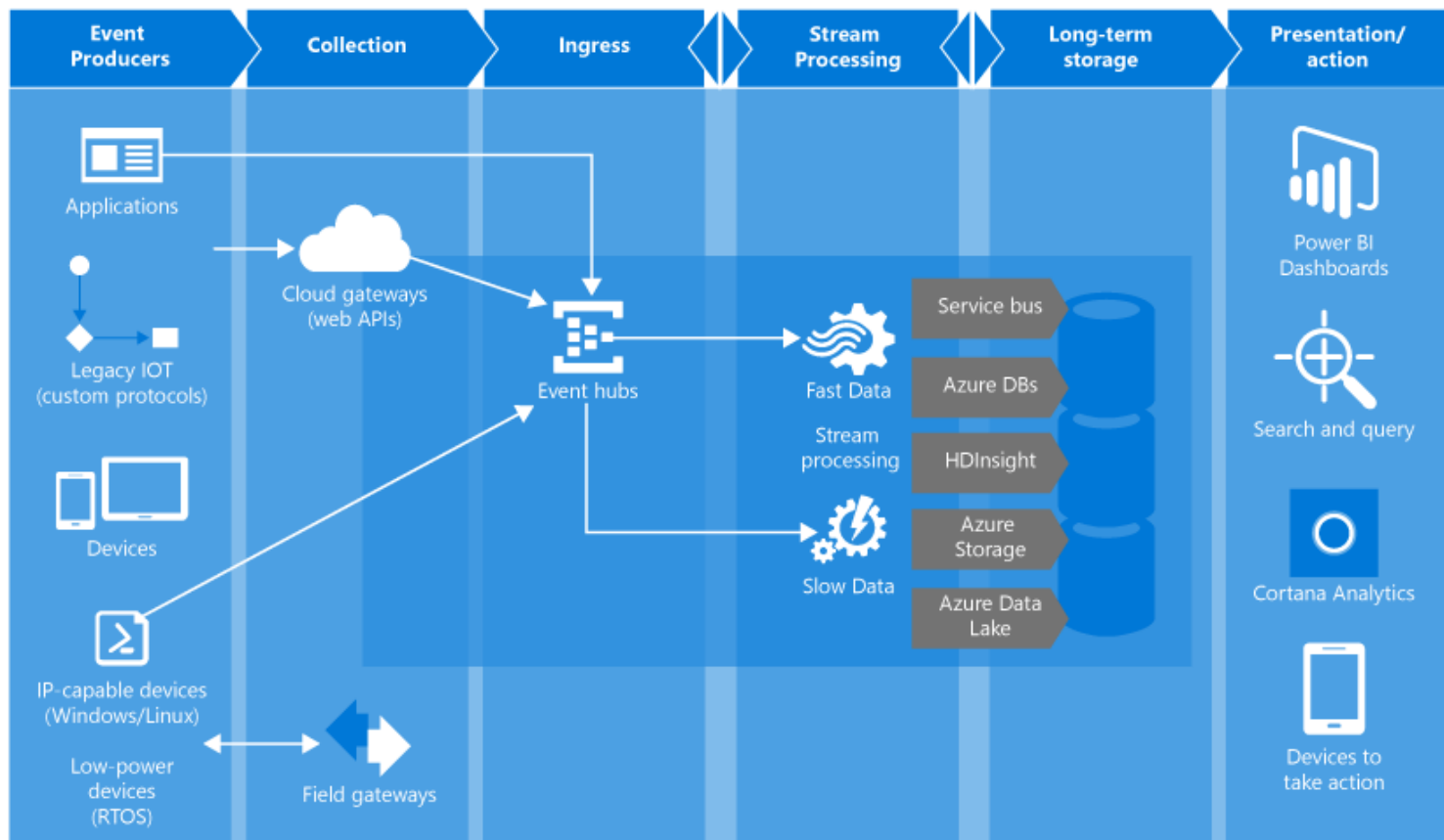


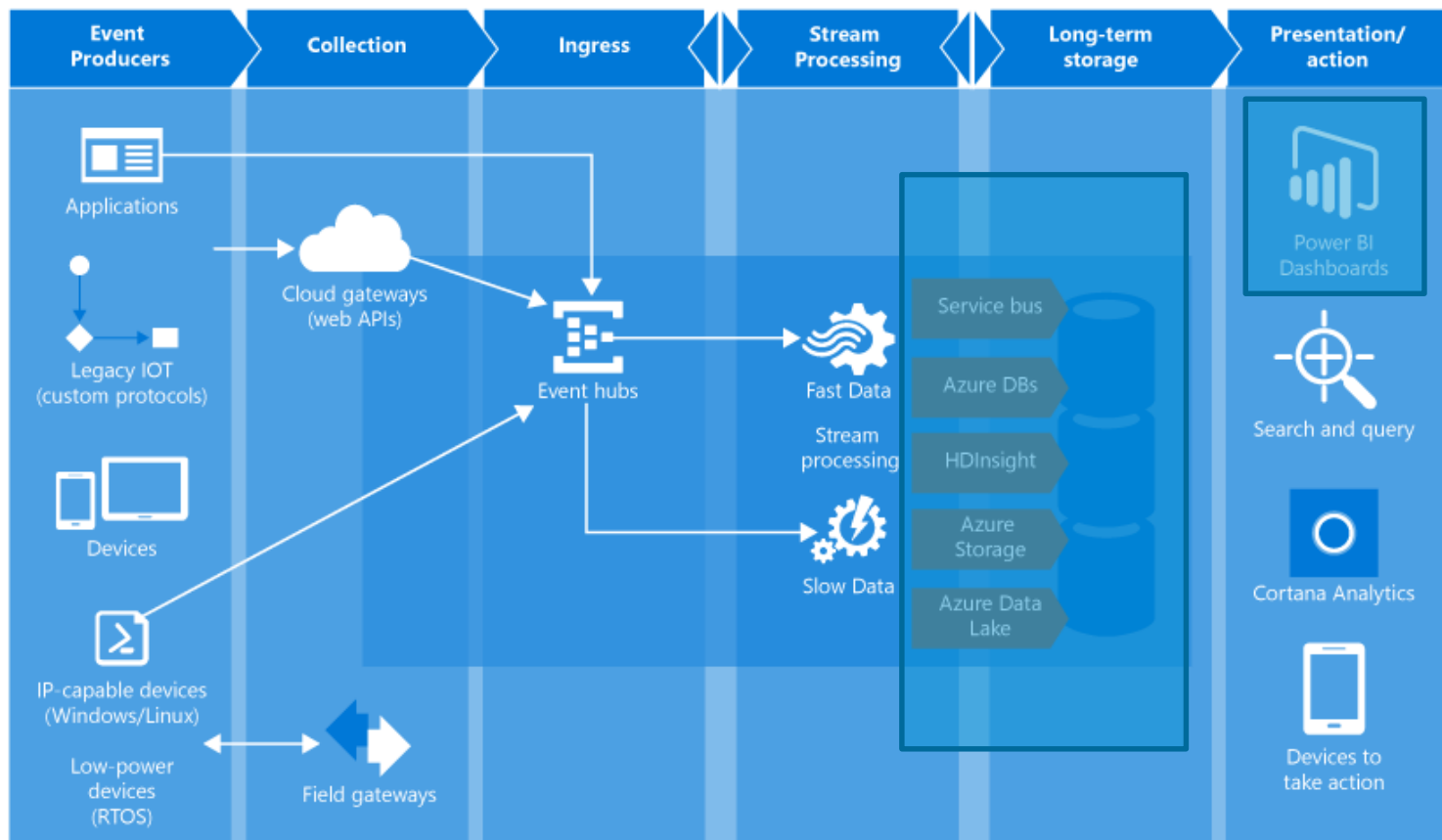
Microsoft Flow and Visio

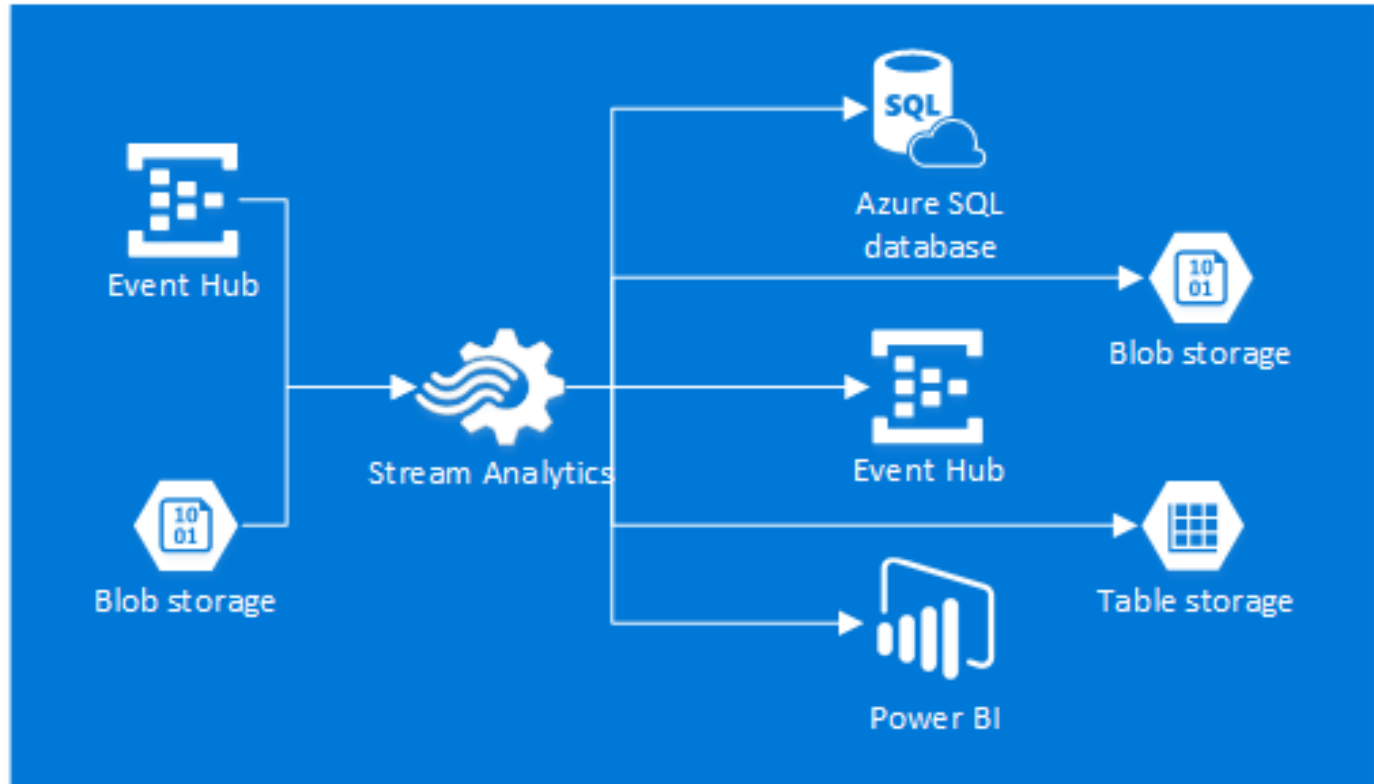


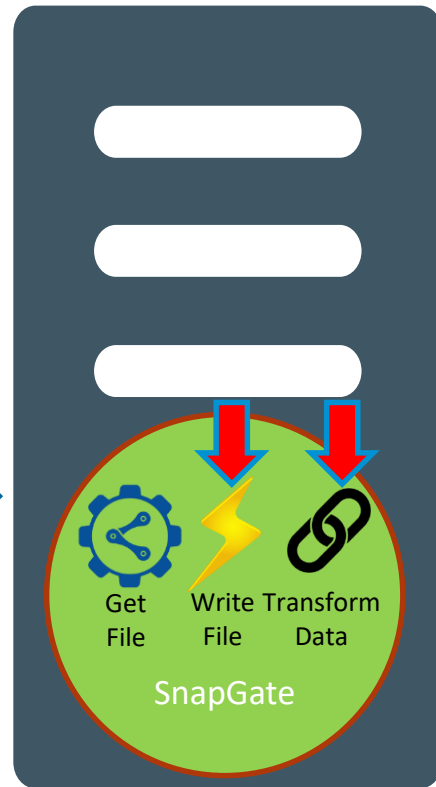
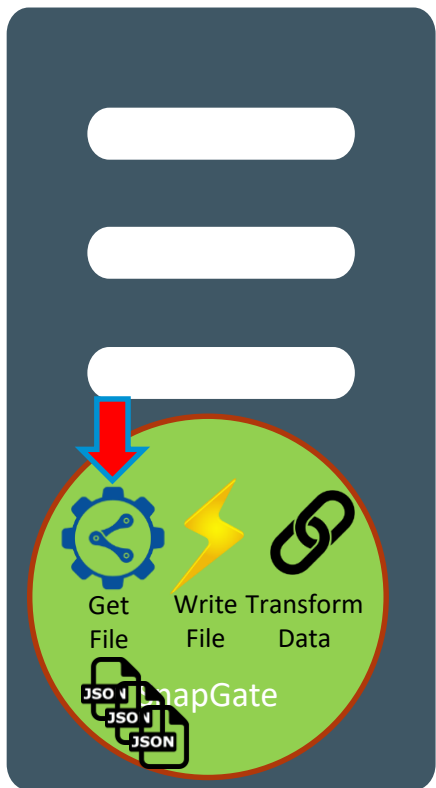
Microsoft Flow











github.com/ninocrudele/SnapGate

How to learn





Start from the base

The infrastructure



Microsoft

