Azure

with Phil Spokas

Microsoft Partner | Gold DevOps
Gold Cloud Platform
Silver Application Development

Microsoft

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Get to know Azure

Explore the world of cloud computing and learn what sets Azure apart

54
Regions worldwide

Government cloud, data sovereignty

$1 billion
Investment in Security

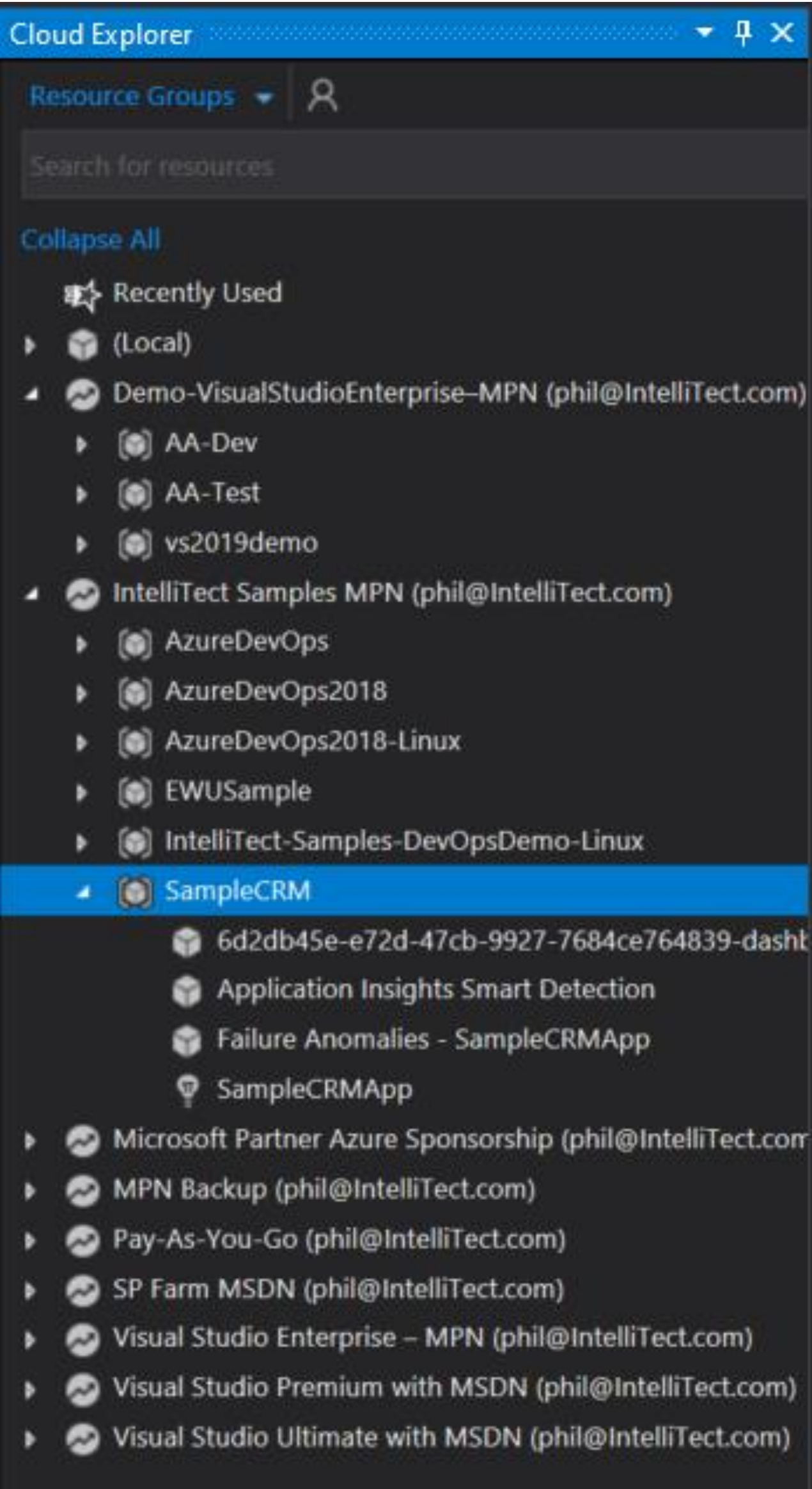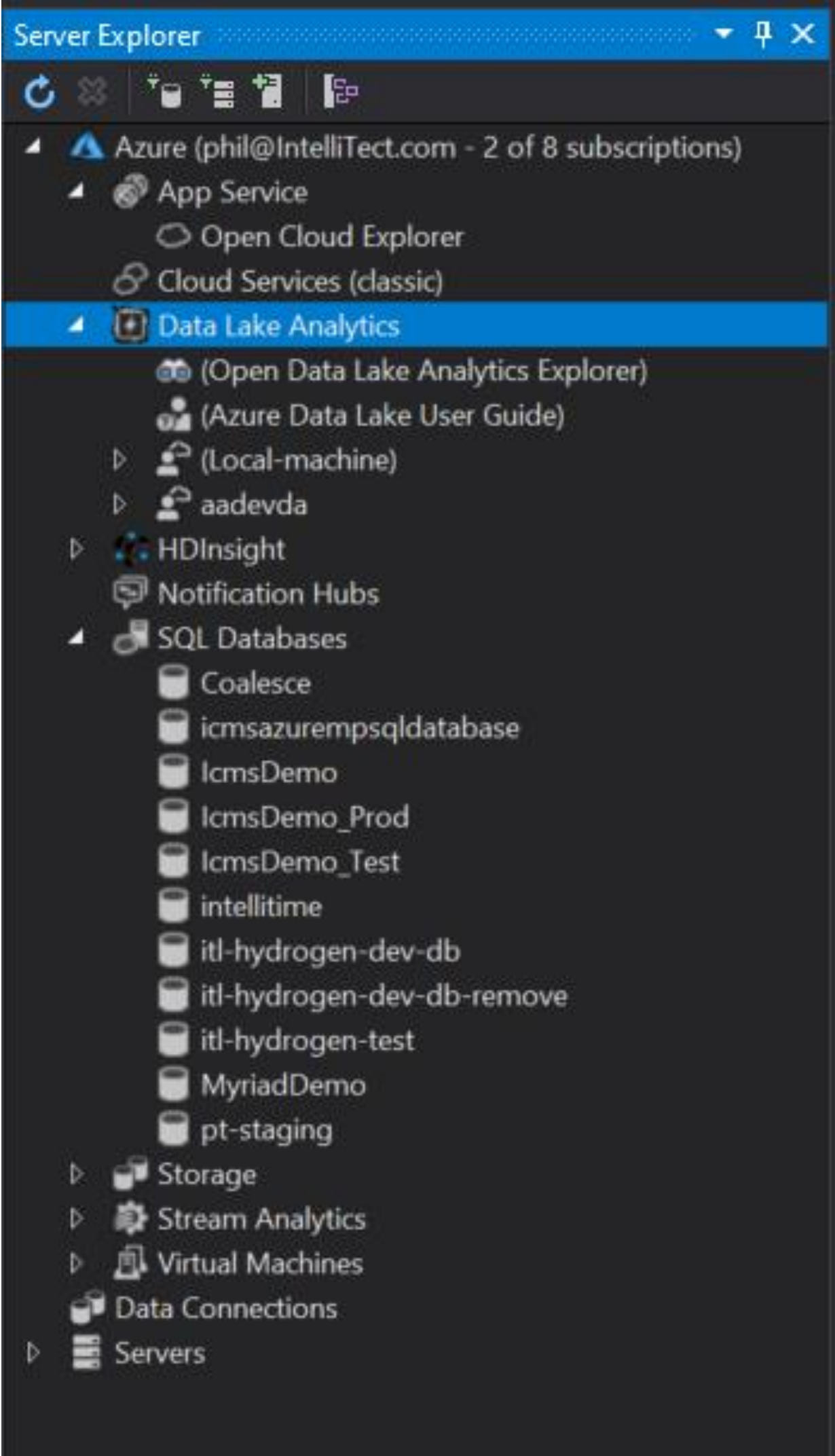Customer data, network security, intrusion detection

1000s
Services and solutions

AI/Machine Leaning, Data Analytics, Platform Services, COTs (SAP et. Al), Blockchain, Micro service architectures, ...
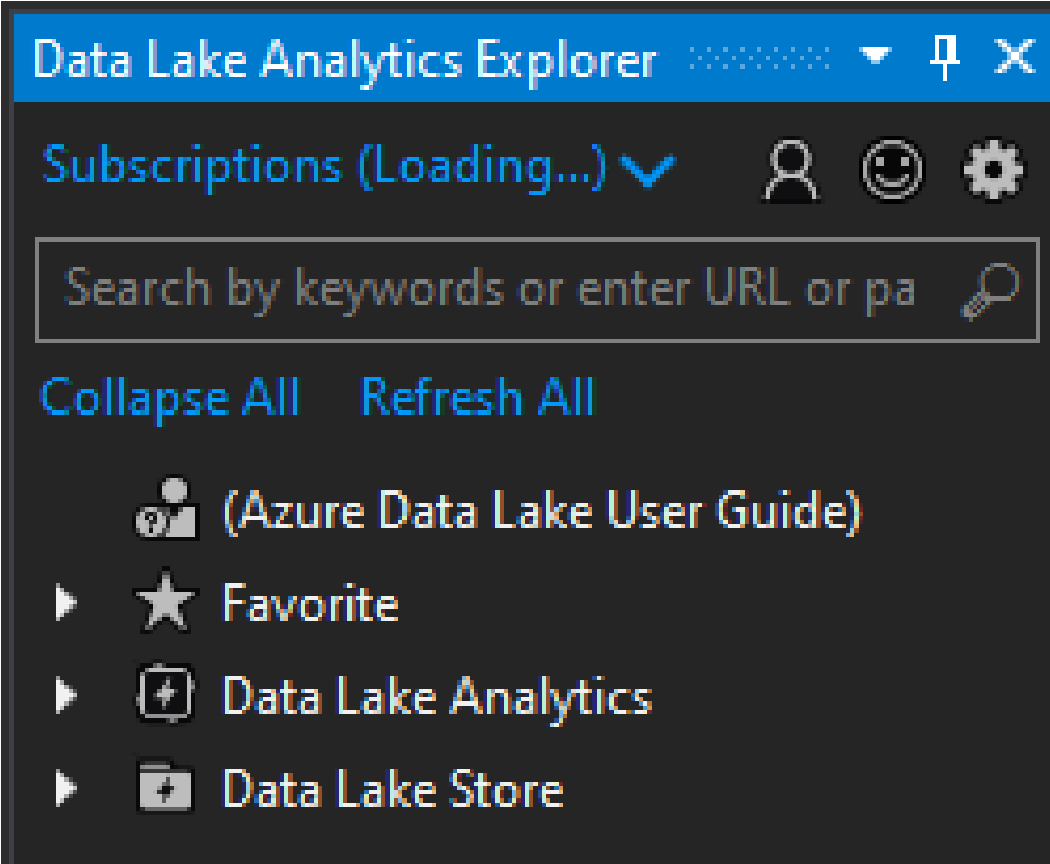
Hybrid and multi-cloud scenarios are prevalent
All companies are leveraging the cloud in some way
If you're not, you're behind
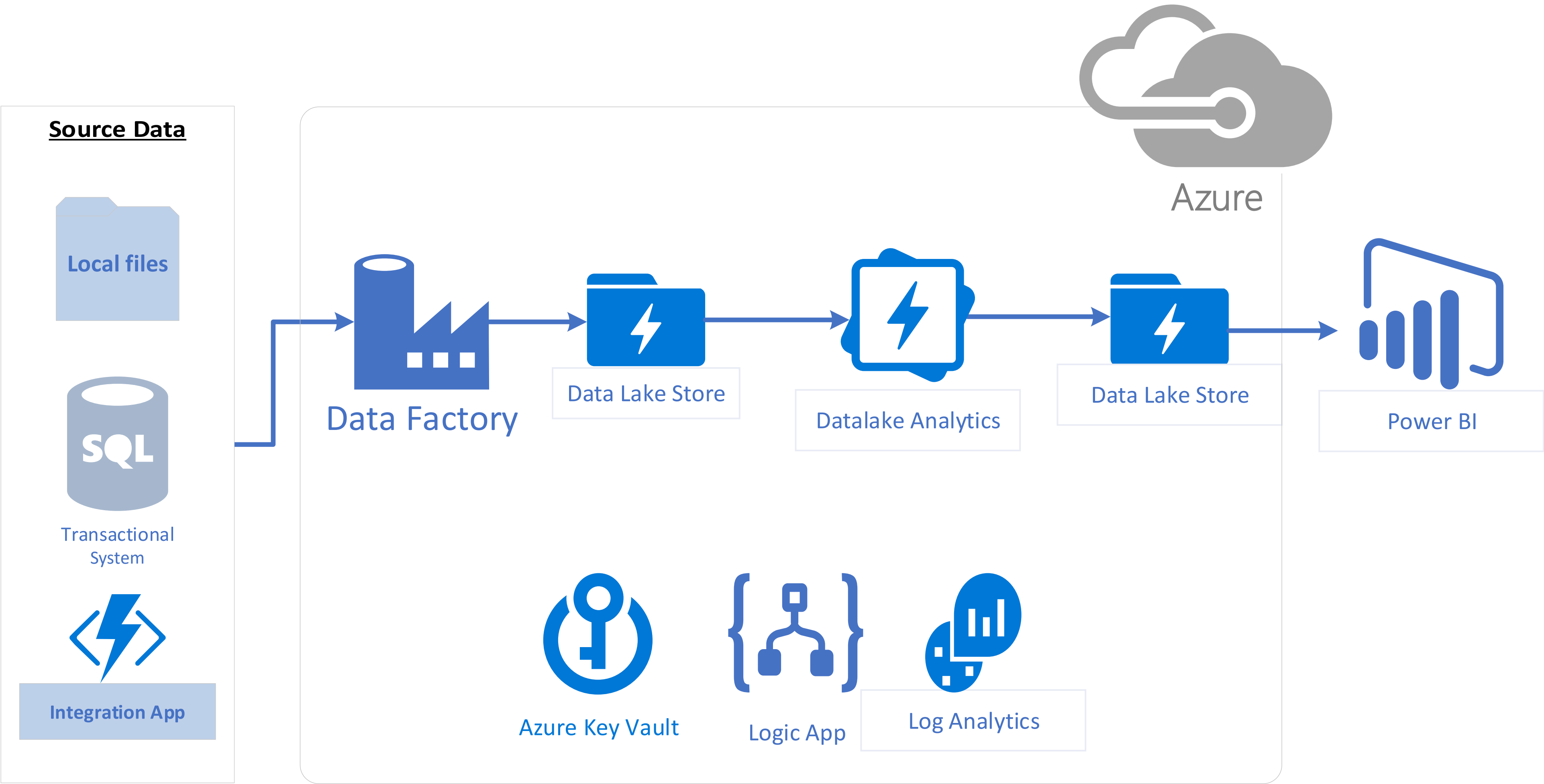
Azure Services and Visual Studio 2019

Server Explorer

- Azure (phil@IntelliTect.com - 2 of 8 subscriptions)
  - App Service
    - Open Cloud Explorer
  - Cloud Services (classic)
  - Data Lake Analytics
    - (Open Data Lake Analytics Explorer)
    - (Azure Data Lake User Guide)
    - (Local-machine)
    - aadevda
  - HDInsight
  - Notification Hubs
  - SQL Databases
    - Coalesce
    - icmsazurempsqldatabase
    - IcmsDemo
    - IcmsDemo_Prod
    - IcmsDemo_Test
    - intellitime
    - itl-hydrogen-dev-db
    - itl-hydrogen-dev-db-remove
    - itl-hydrogen-test
    - MyriadDemo
    - pt-staging
  - Storage
  - Stream Analytics
  - Virtual Machines
  - Data Connections
  - Servers

Cloud Explorer

Resource Groups

Search for resources

Collapse All

- Recently Used
- (Local)
- Demo-VisualStudioEnterprise–MPN (phil@IntelliTect.com)
  - AA-Dev
  - AA-Test
  - vs2019demo
- IntelliTect Samples MPN (phil@IntelliTect.com)
  - AzureDevOps
  - AzureDevOps2018
  - AzureDevOps2018-Linux
  - EWUSample
  - IntelliTect-Samples-DevOpsDemo-Linux
  - SampleCRM
    - 6d2db45e-e72d-47cb-9927-7684ce764839-dasht
    - Application Insights Smart Detection
    - Failure Anomalies - SampleCRMApp
    - SampleCRMApp
- Microsoft Partner Azure Sponsorship (phil@IntelliTect.com
- MPN Backup (phil@IntelliTect.com)
- Pay-As-You-Go (phil@IntelliTect.com)
- SP Farm MSDN (phil@IntelliTect.com)
- Visual Studio Enterprise – MPN (phil@IntelliTect.com)
- Visual Studio Premium with MSDN (phil@IntelliTect.com)
- Visual Studio Ultimate with MSDN (phil@IntelliTect.com)

Azure SDK vs2019

Logic App Tools for vs2019

Data Lake Analytics Explorer

Subscriptions (Loading...)

Search by keywords or enter URL or pa

Collapse All   Refresh All

- (Azure Data Lake User Guide)
- Favorite
- Data Lake Analytics
- Data Lake Store

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Serverless Demos

1. Service Bus
2. Function Apps
3. Logic Apps
4. App Service
5. App Insights

Source Data

Local files

Transactional System

Integration App

Azure

Data Factory

Data Lake Store

Datalake Analytics

Data Lake Store

Power BI

Azure Key Vault

Logic App

Log Analytics

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Azure Serverless – Service Bus

Cloud hosted service bus

Securely connect to on prem resources

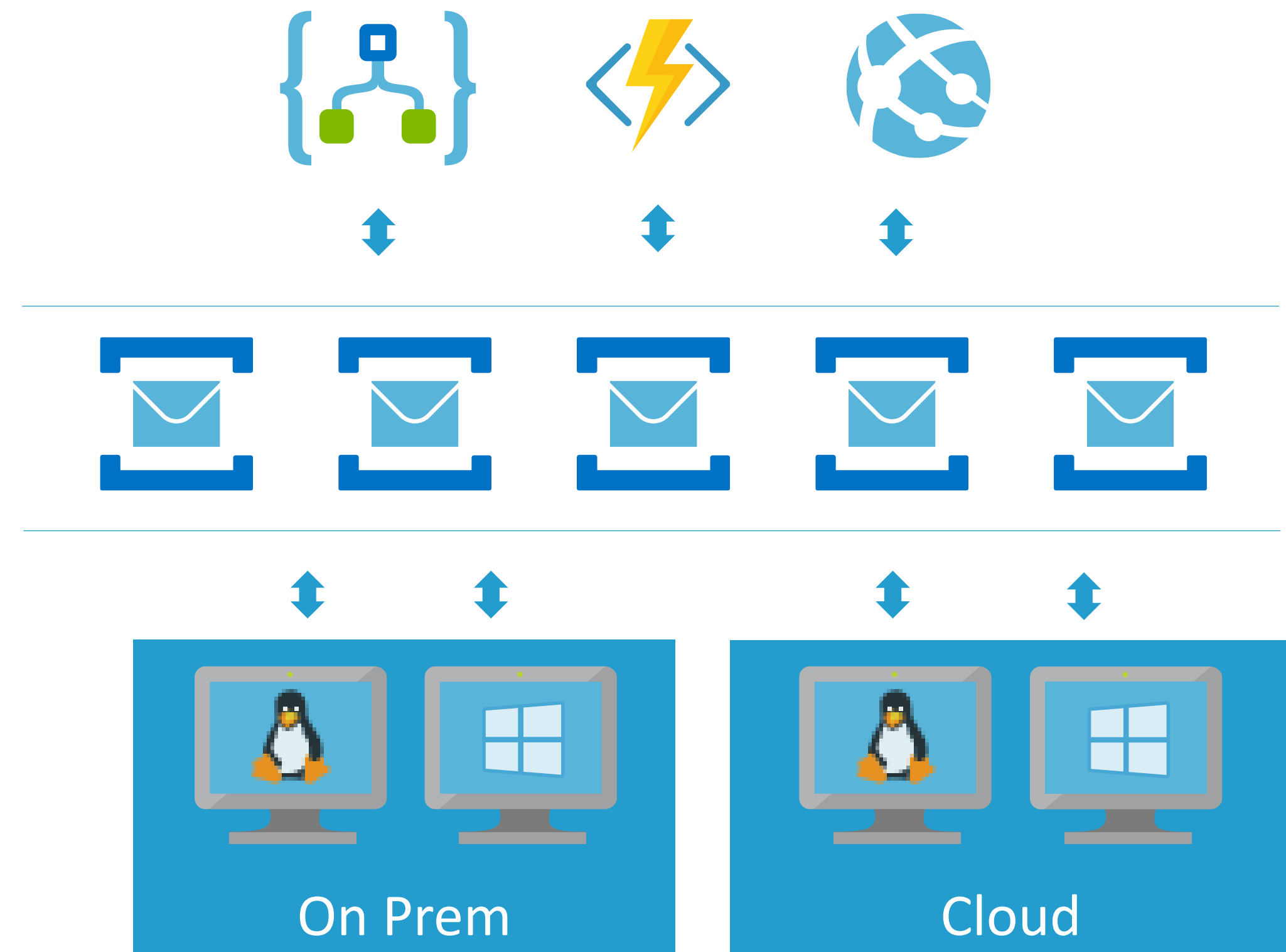Scalable "push/pull"

Client platform independent: Rest API and SDK .NET, Java, Node, Python,

Support for Transactions and Security

Use EventGrid to trigger events

Send messages to a topic

Read messages from a topic subscriber

Azure Storage Queues, durable and persistent, not as functional: sequence, forward, dead letter

Azure Serverless – Functions

Individual "Functions" hosted in Azure

C#, Java, PowerShell, JavaScript, Python, F#, …

Triggers: HTTP, timer, Cosmos, ServiceBus, …

Flexible deployment model
- Consumption
- Consumption Premium
- app service

Durable Functions that maintain state

Function API Proxies

Note function host lags current tech
- Core 3.0 support is in preview

HTTP	Timer	ServiceBus

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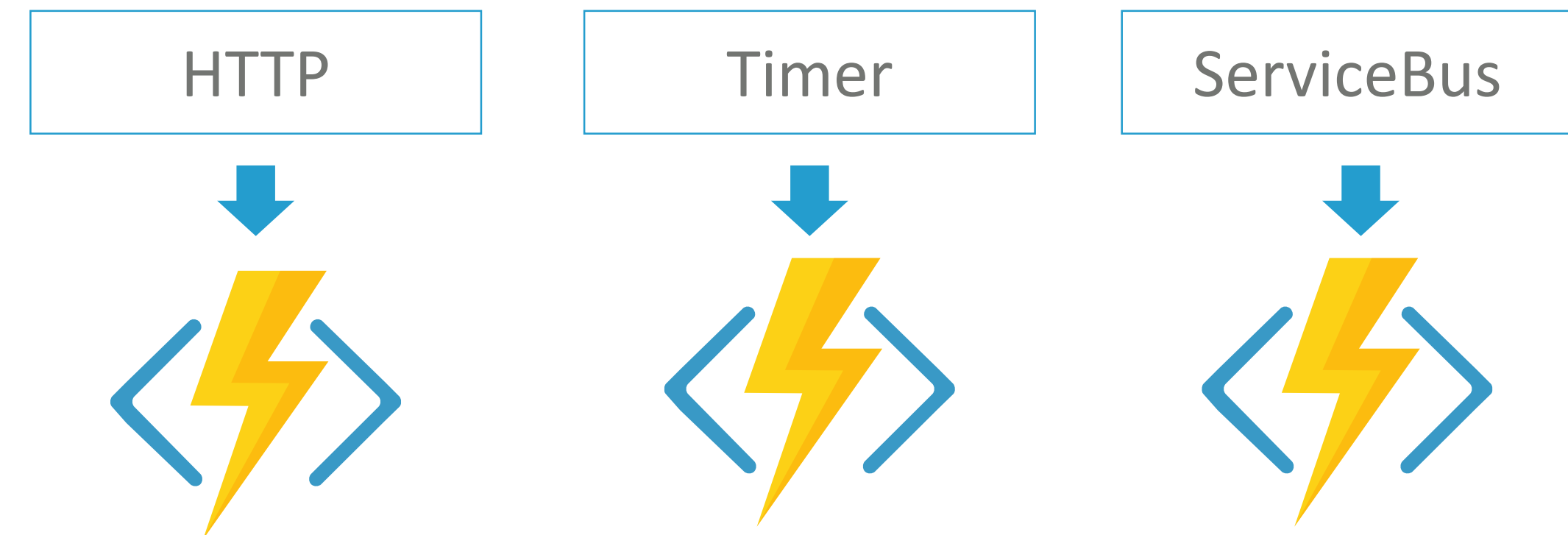
Azure Serverless – Logic apps

No code task and work flow

Numerous connectors available

Triggers: Event triggers: http, message bus, Event Grid, timer, and many more …

Orchestrating events

Basic data filter and and data process

Use as simple API endpoint or to implement a scheduled job

Visual Studio designer available with Logic App extension

Store in source and trigger deployments on updates

| HTTP | Timer | ServiceBus |

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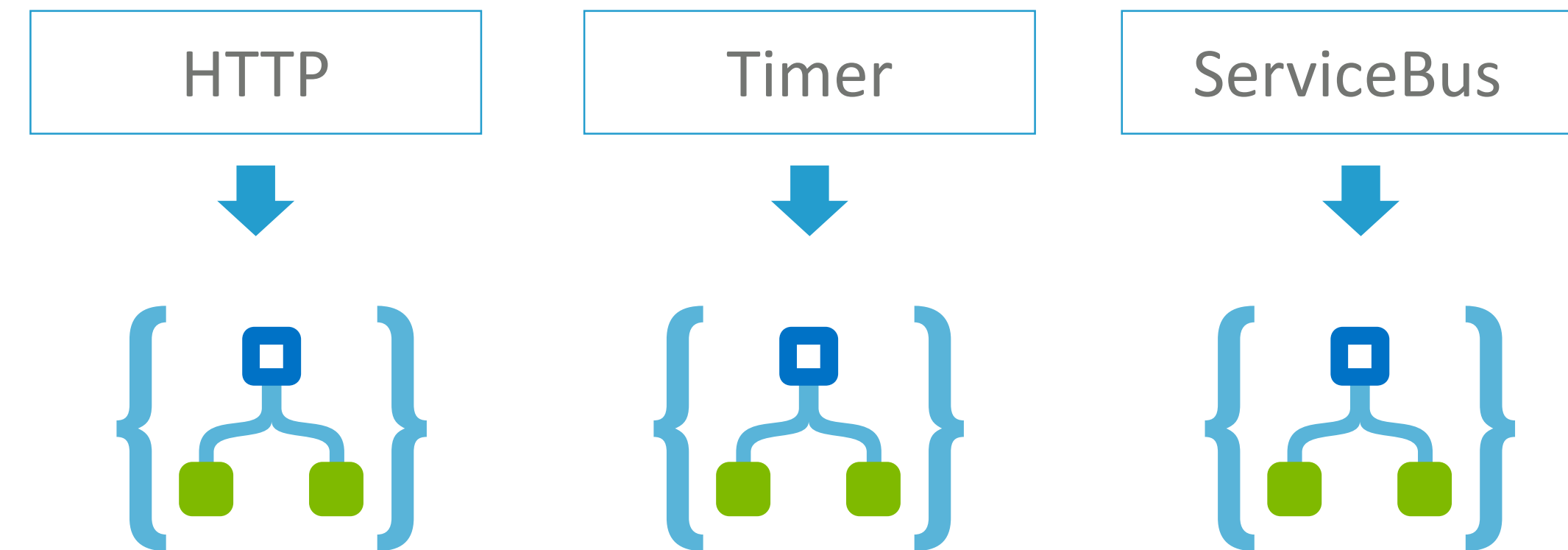
Azure App Service

Cloud hosted web apps

Auto scalable, load balanced

Deployment slots supporting
hot/warm swapping

Now supports containers

Build and debug locally

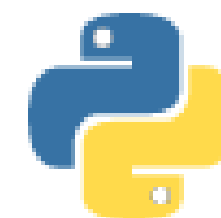Provision and deploy to Azure from
with VS
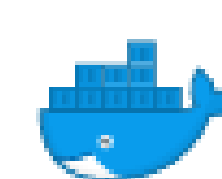
Remote debug supported
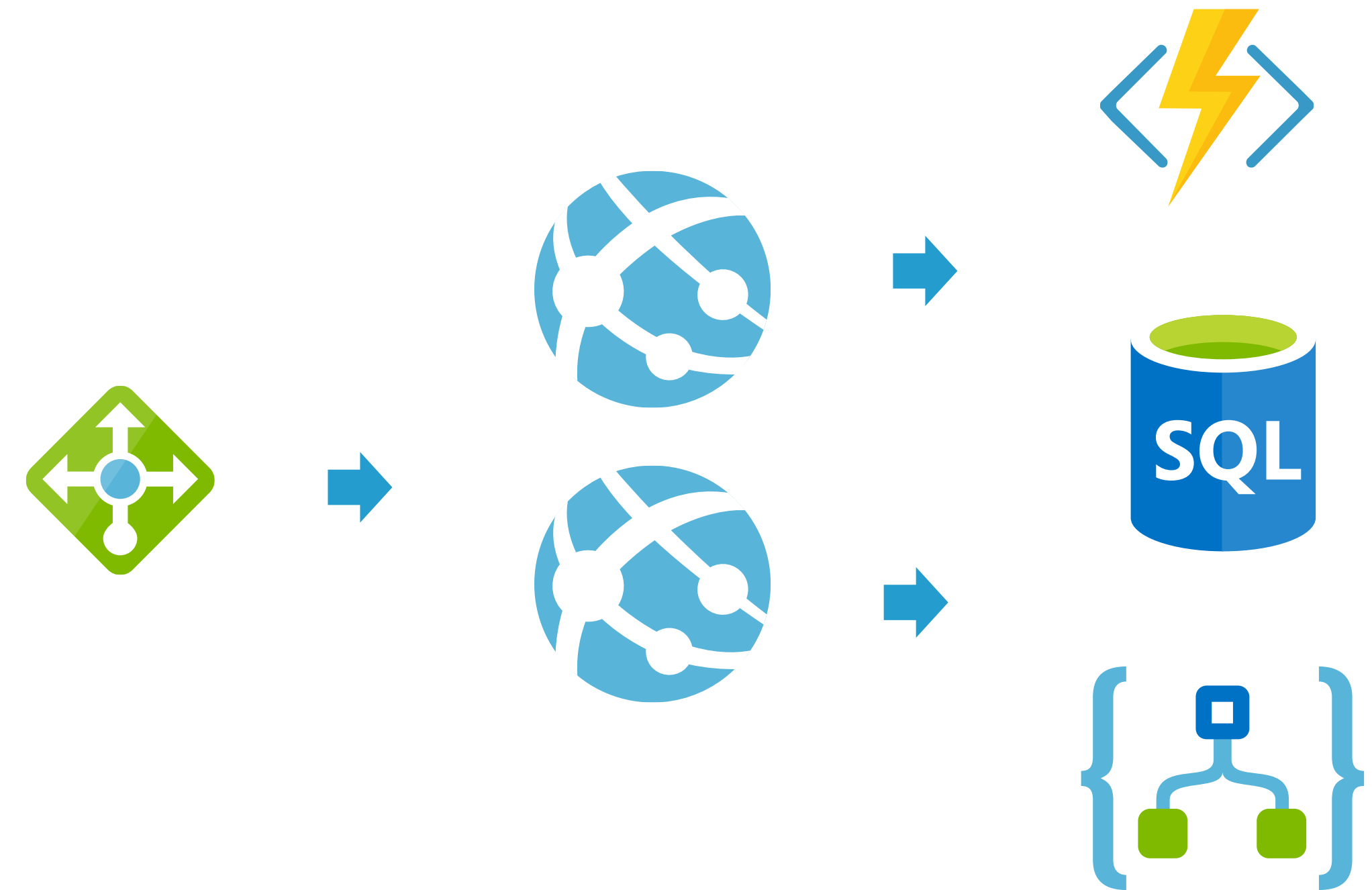
.NET   Node.js   PHP   Java   Python (on Linux)   HTML   Custom Windows container (Preview)
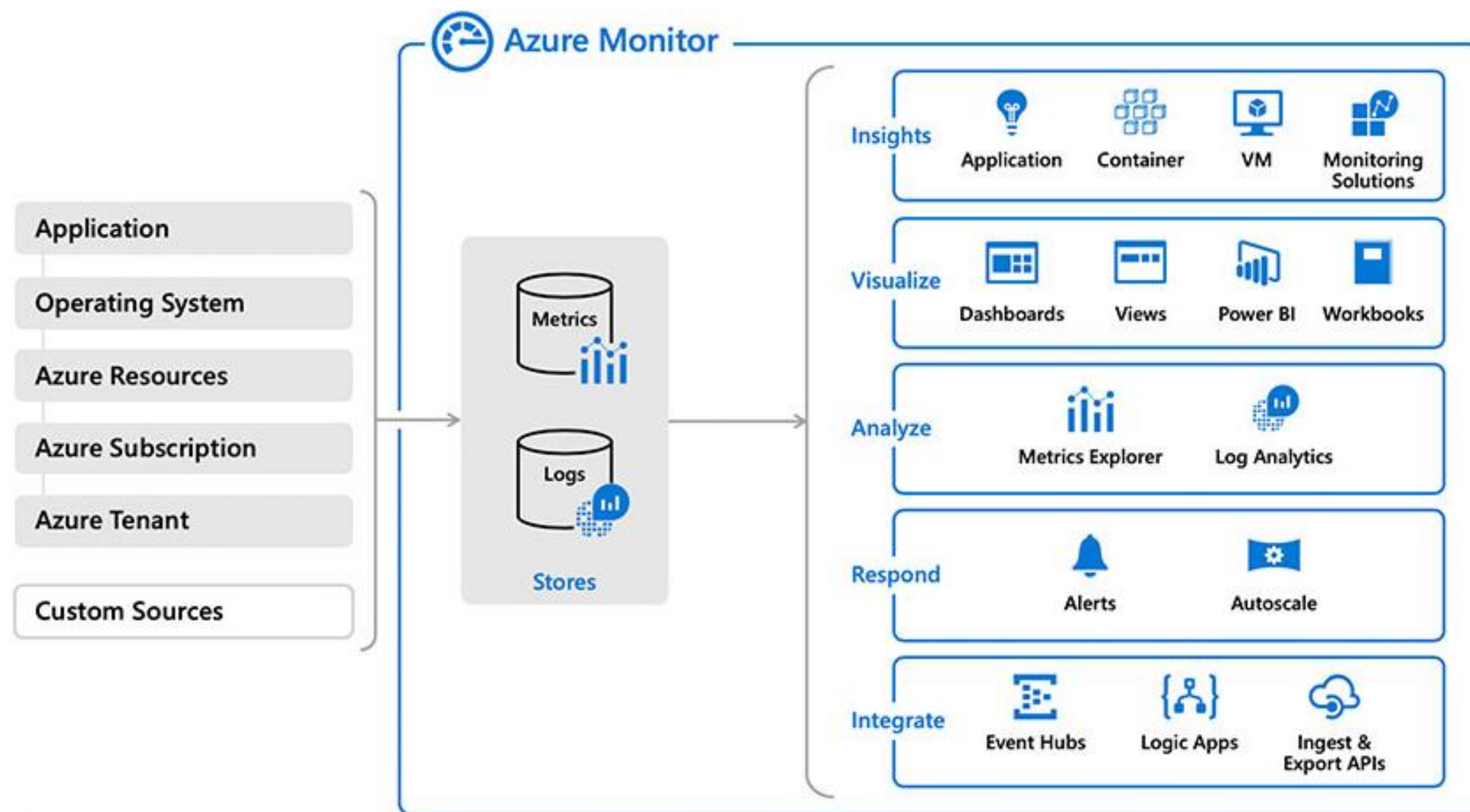
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Application Insights

Easily instrument application

Tie systems together into a single workspace, or keep them separate

Create custom events

Integrate with app logging frameworks

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Azure.Microsoft.com

Azure Updates
https://azure.microsoft.com/en-us/blog/

Check it out with free tier
https://azure.microsoft.com/en-us/free/

Visual Studio Subscribers monthly credit
https://my.visualstudio.com