# Azure and Monitoring

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WÜRTHPHOENIX

# Azure: Viel Mehr als Hosting

# ~~Windows~~ Microsoft Azure

| | |
|---|---|
| Management | System Center |
| Applications | Dynamics SharePoint Exchange |
| Application Frameworks | .NET |
| Databases | SQL Server |
| Infrastructure | |



Home > Open Source

**Microsoft's the top open-source contributor on GitHub**

By Jon Gold
Senior Writer, Network World | SEP 15, 2016 11:35 AM PT

**Google engineer and Kubernetes founder Brendan Burns joining Microsoft Azure**

KAREEM ANDERSON EMAIL @MINDHEAD1 2 YEARS AGO IN LATEST NEWS

CULTURE / TECHNOLOGY / GLOBAL

**How Microsoft Is Shifting Focus to Open Source**

20 Jun 2017 1:00pm, by Swapnil Bhartiya

Komplette Open Source Applikation Stacks auf Azure

# Why is Cloud Monitoring Different? (1)

## Elasticity

- Permanent cost optimization (rightsizing)
- Monitoring for autoscaling: performance oriented

# Why is Cloud Monitoring Different? (2)

## Off-Premises

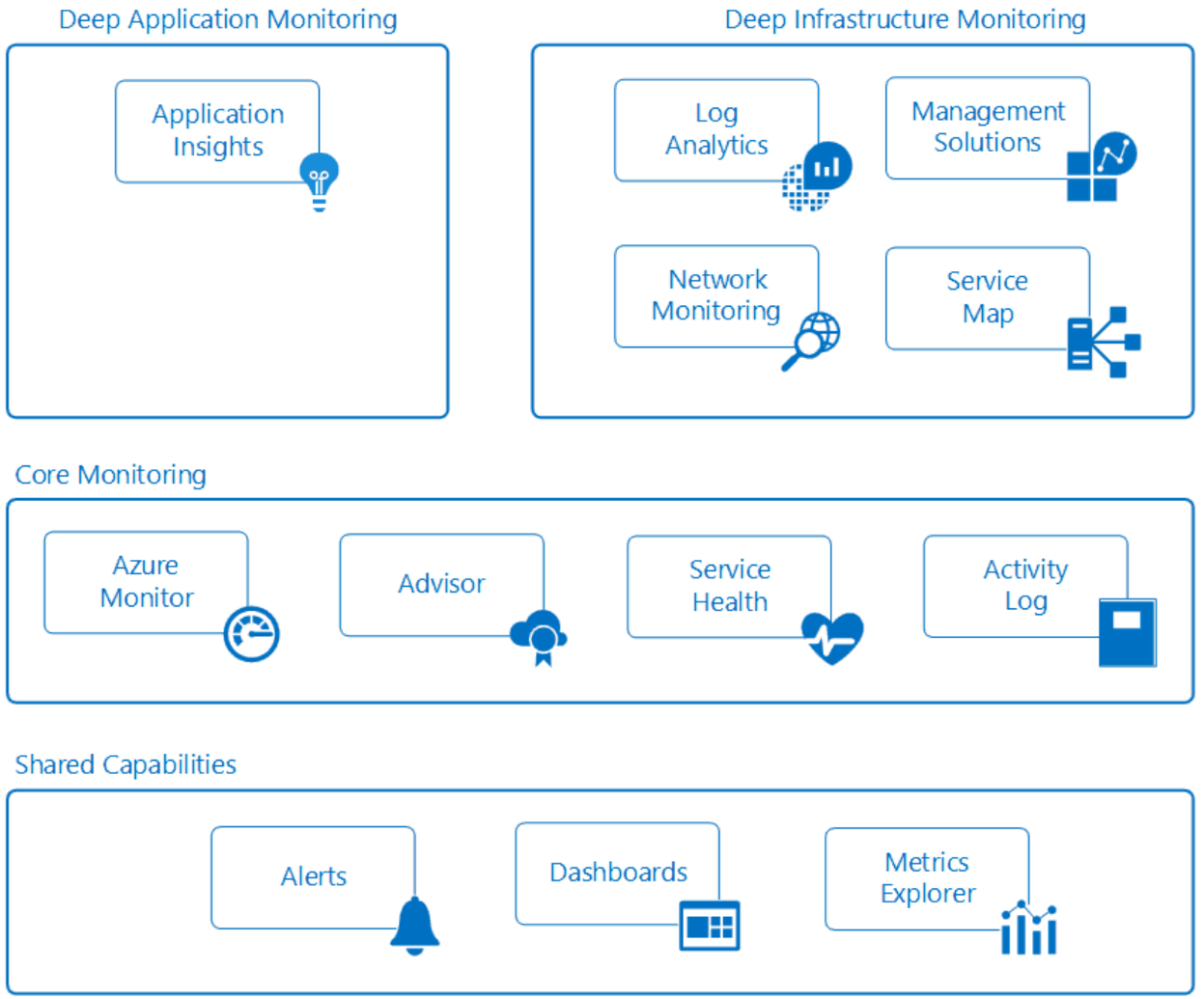
- Monitored assets are outside the network perimeter
- Security monitoring is (even more) critical

# Why is Cloud Monitoring Different? (3)

## Shared responsibility

- The goal is failing around problems, not fixing them (that is Microsoft's responsibility): different metrics
- Huge amount of (different) data available (example: VM OS change audits, app performance statistics)

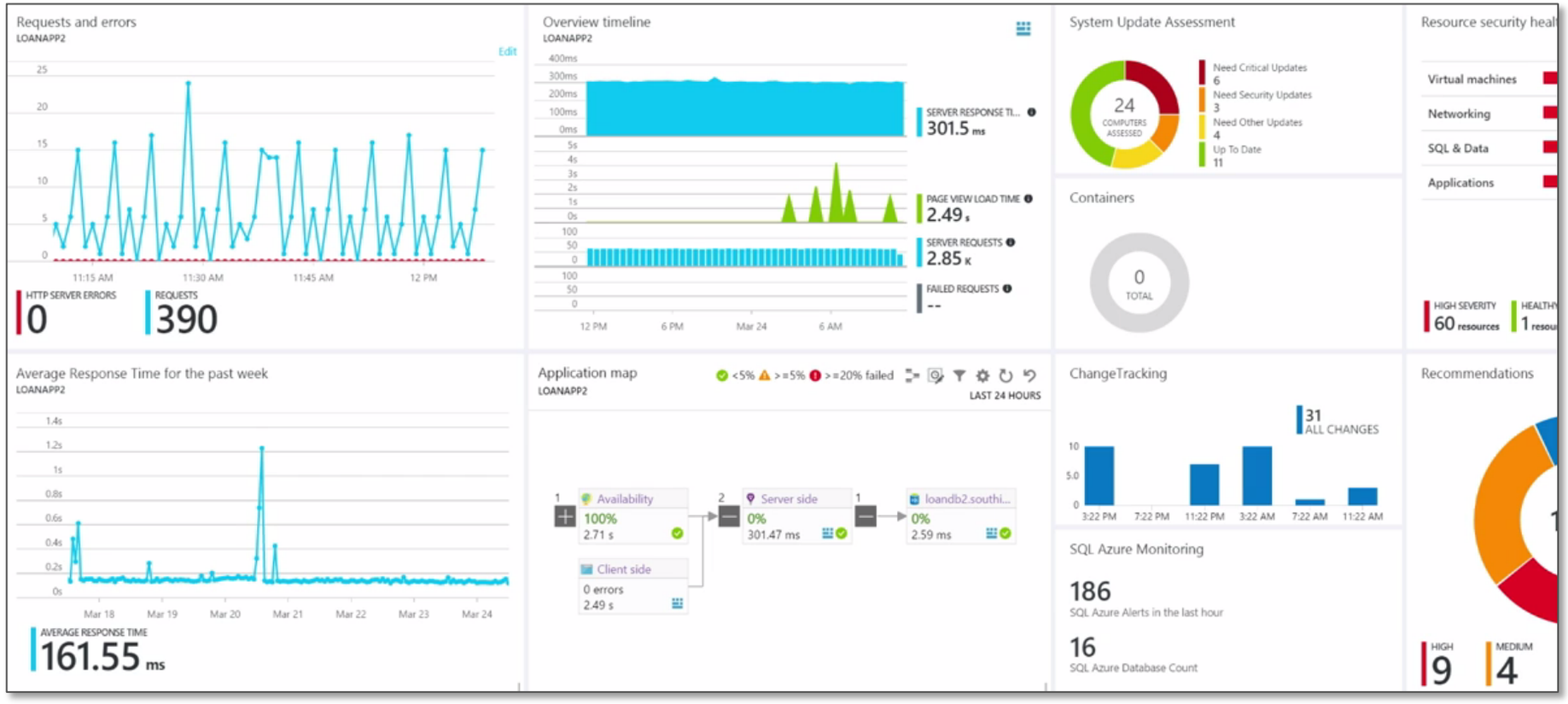
# How To Monitor All This?




https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-overview

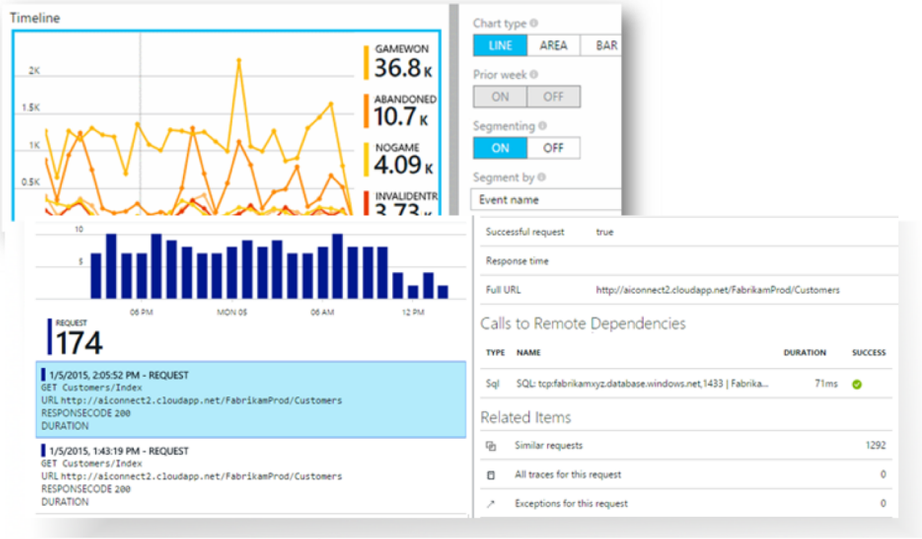
# Azure Monitor

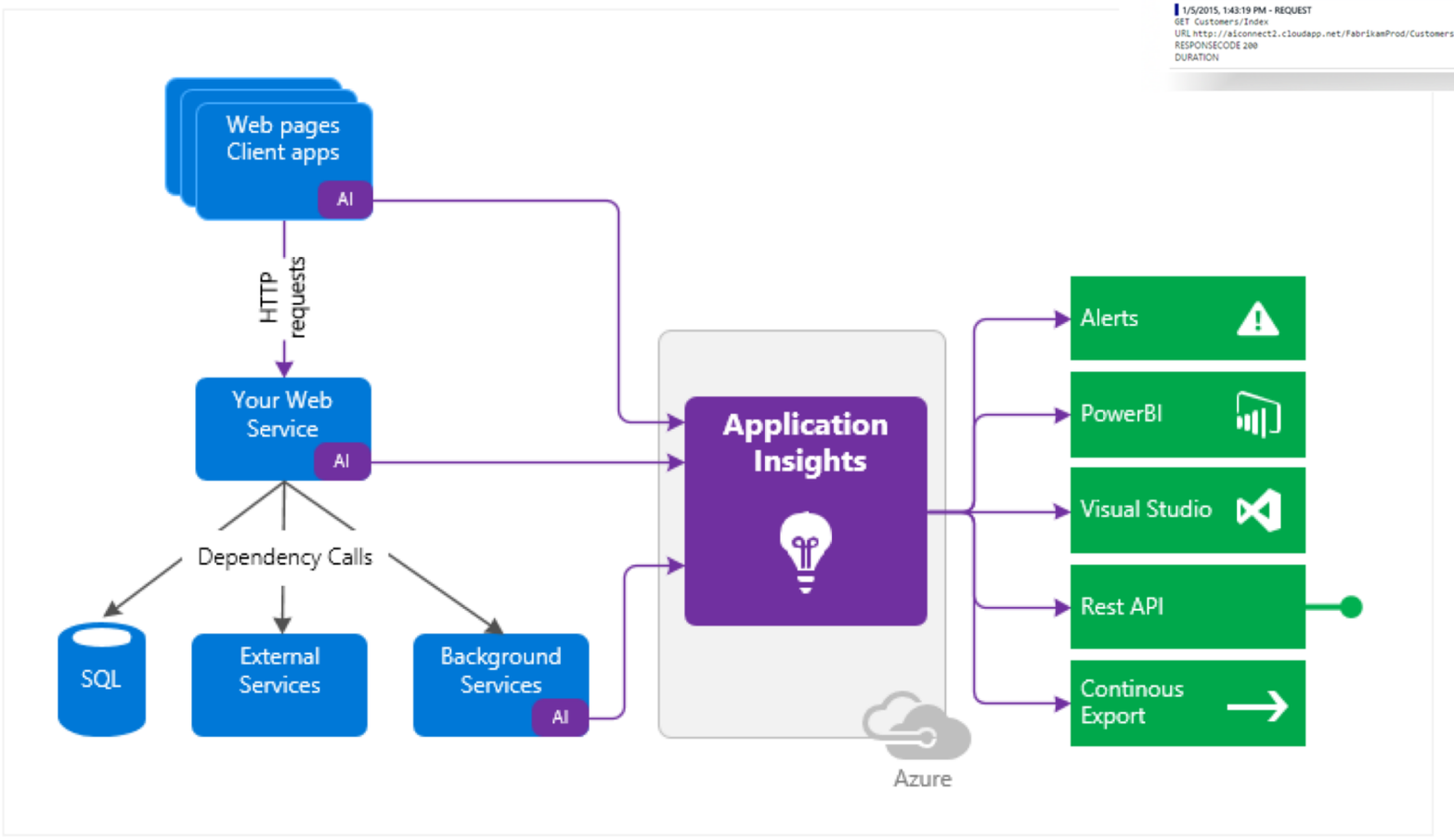
- Infrastructure metrics and logs for Microsoft Azure services



# Azure App Insights

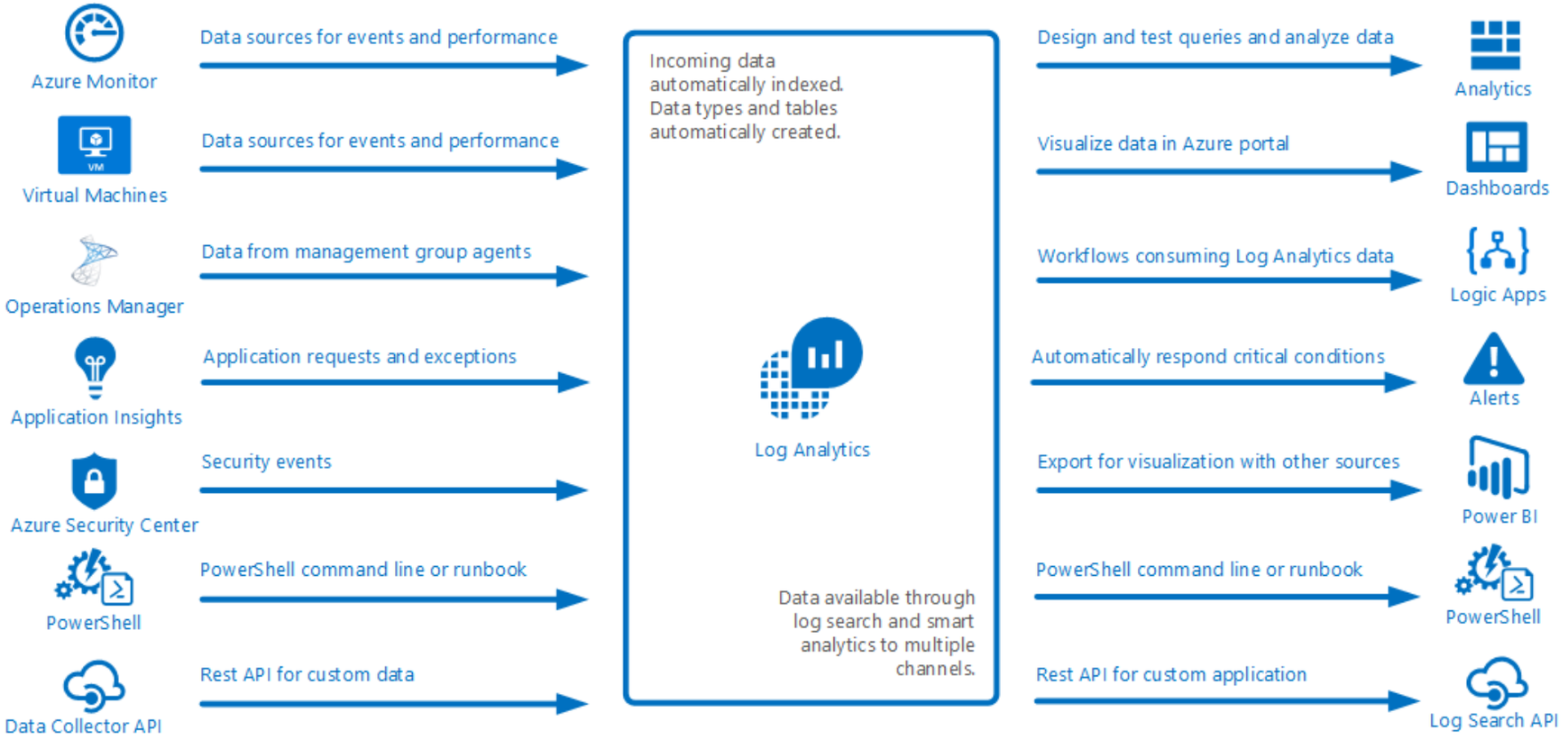
- App Performance Management
- .NET, Node.js, J2EE, onprem/cloud



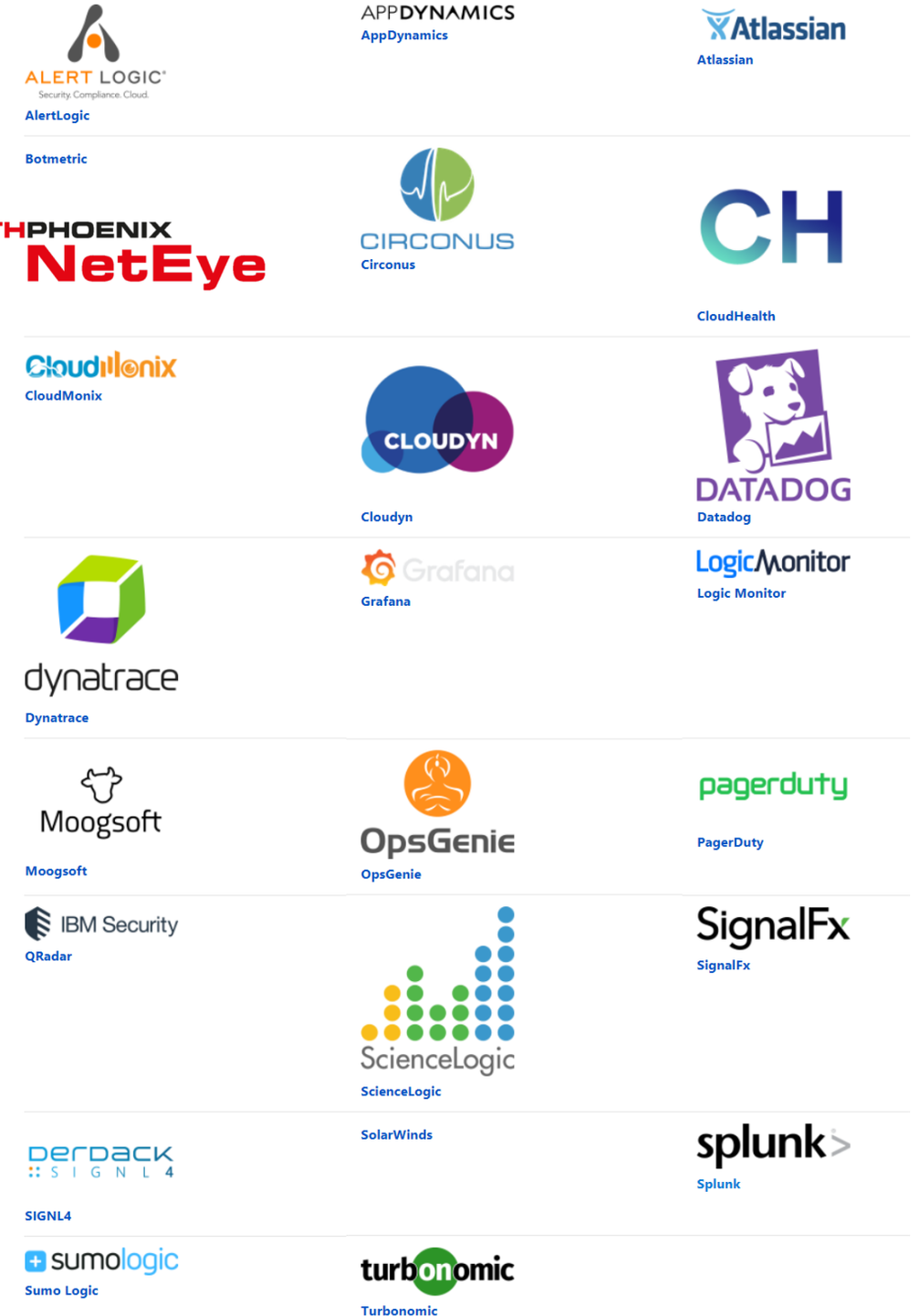
# Azure Log Analytics

- Insights into the operation of your applications and resources with a rich query language



# Integration

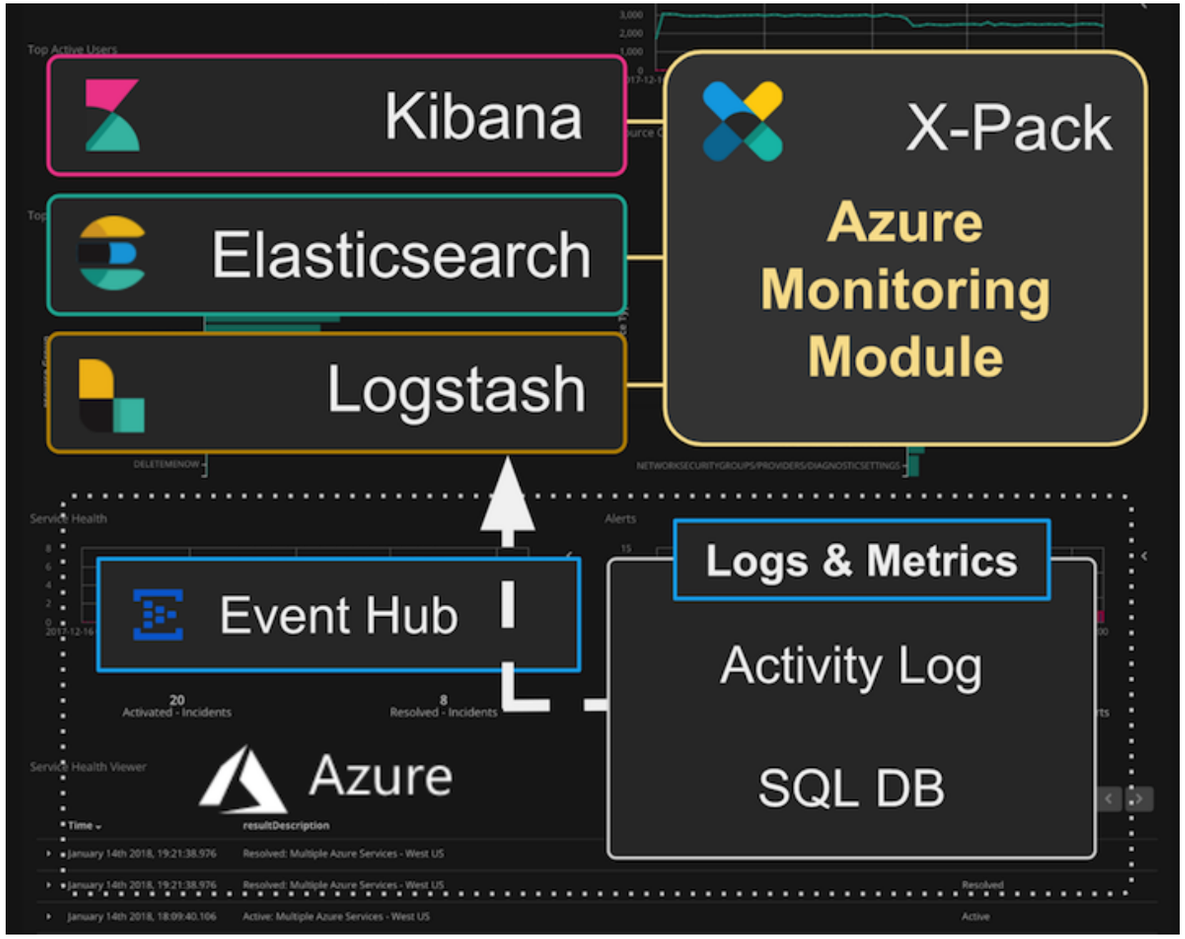
- Azure Monitor provides rich APIs for integration with external tools
- Alerts can be sent to external systems
- Event Hubs provide easy-to-consume log feeds




https://docs.microsoft.com/en-us/azure/monitoring-and-diagnostics/monitoring-partners

# Example: Elastic Integration

- Announced in Elasticon 2018




https://www.elastic.co/blog/monitoring-azure-with-the-elastic-stack-feedback-welcome

# Hybrid Monitoring

- Microsoft Operations Management Suite (OMS)

**Azure Monitoring and Log Analytics**
Gain immediate insights across workloads

**Azure Security Center**
Respond faster to security threats

**Azure Automation**
Enable consistent control and compliance

**Azure Backup and Site Recovery**
Ensure availability of apps and data

https://www.microsoft.com/en-us/cloud-platform/operations-management-suite

# Thanks...

Microsoft