Monitoring

Overview

What you need to think about to be successful

Diagnostics and metrics

Log search

Alerting

Things to Keep in Mind Regarding Azure VM Monitoring

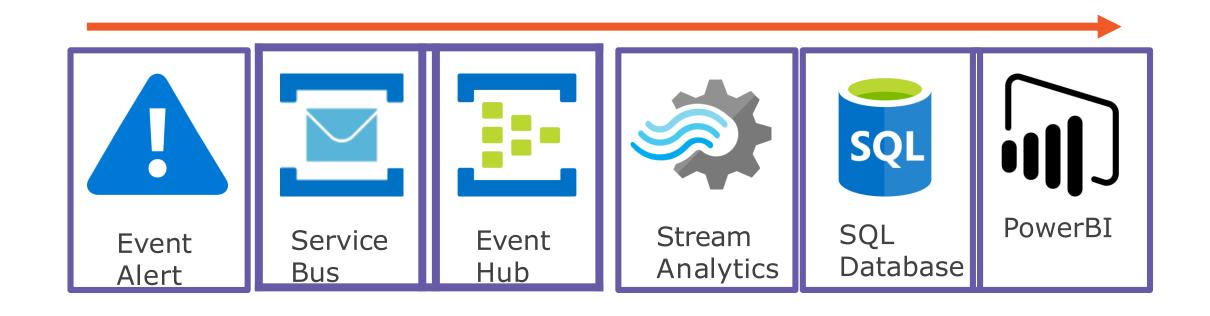
You're free to use native tools (PerfMon, ps) Take Azure into account when evaluating mon. solutions

Learn about webhooks, REST, and SQL

With hybrid cloud, you can use System Center OMS is a tightly integrated solution

Consider streaming data via Event Hub

The Azure Event Hub Workflow



Monitoring - A Layered Approach

Resource level

- ••Internal tools
- Metrics, alert rules

Resource Group level

Monitor blade

Enterprise level

- ••Hybrid nodes
- Log Analytics
- Azure Automation

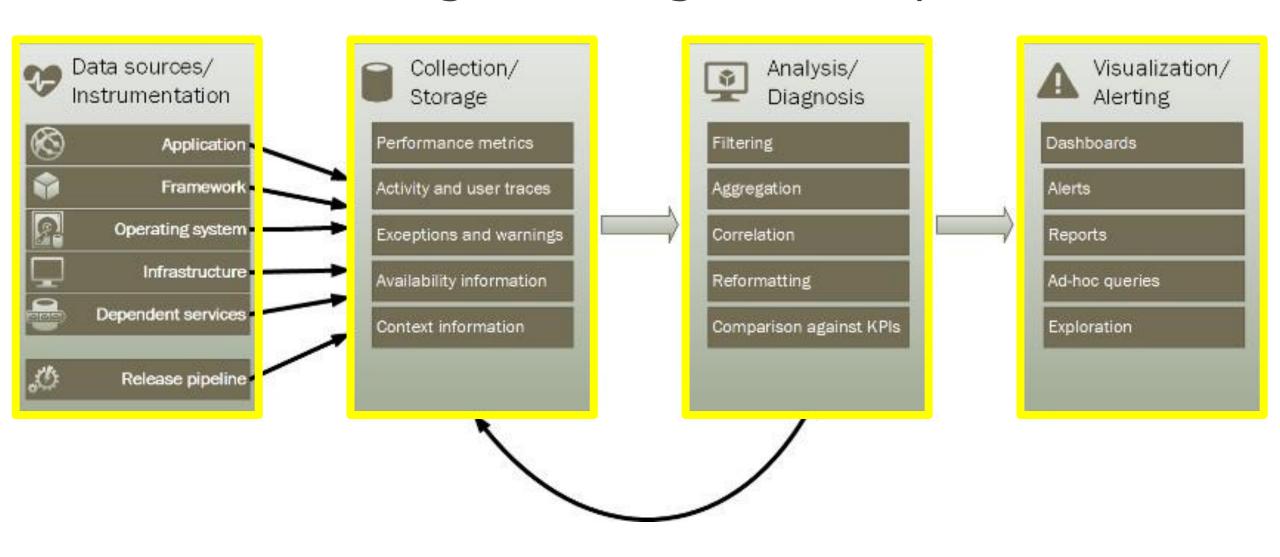
Diagnostics and Metrics



Telemetry

An automated communications process by which measurements and other data are collected at remote or inaccessible points and transmitted to receiving equipment for monitoring

Monitoring and Diagnostics Pipeline



Azure Diagnostics Data

Event tracing

Configured by app developers

Performance counters

The 4 traditional subsystems

Event logs

You likely have experience here

Application logs

Configured by app developers

Azure Diagnostics logs

Table and/or blob storage

Log Search

Monitoring – Questions of Scale and Intelligence

Log flood

- So many data sources
- ••How to quickly extract value?

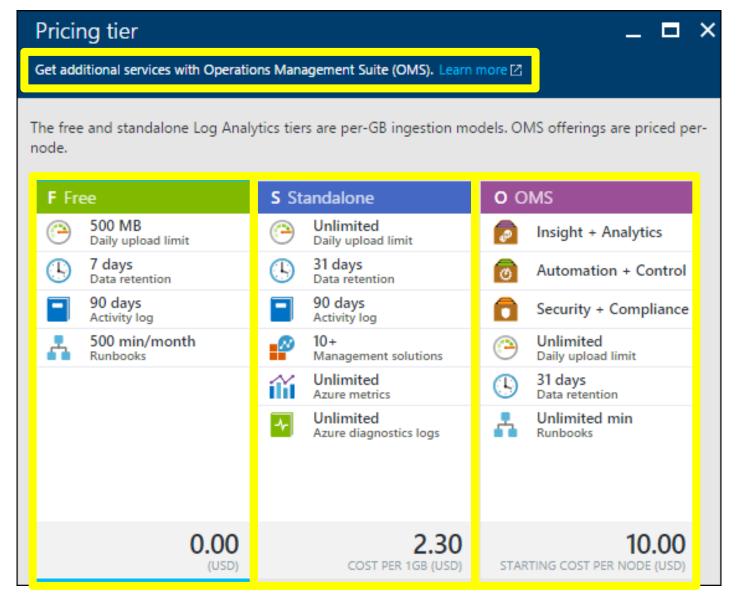
Predictive analytics

••How to know what to look for?

Automation

Immediate remediation

OMS Log Analytics



Log Analytics





OMS Insight & Analytics



Alerting

The Need for an Alerting Solution

Avoiding surprises

Email, SMS

Third-party Security and Event Management (SIEM)

Azure integration is eminently possible



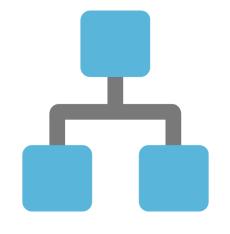
Webhook

A way for an app to provide other applications with realtime information. Also called a web callback or an HTTP push API. The payload is ordinarily JSON.

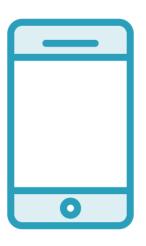
What Can You Do with Webhooks?



Third-Party
Integrations
PageDuty, OpsGenie,
VictorOps, Slack,
HipChat, Campfire,
etc...

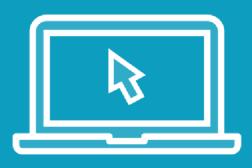


Script Execution
Azure Automation
runbooks



SMS Text Twilio API

Demo



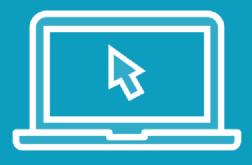
1

Enable monitoring for VMs

Start with Portal

Then show PowerShell

Demo



2

Demo



3

Show integration with....Datadog?

Summary



The question now isn't how to generate actionable data

- It's what to do with the data

Take advantage of Log Analytics and the centralization and intelligence it offers

Next module: Troubleshooting and Support