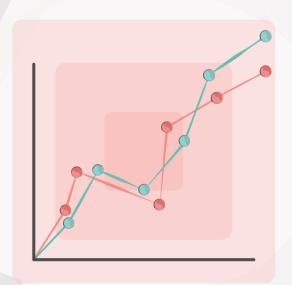


Level 5 Data Engineer Module 5 Topic 7

Putting it all together

Welcome to today's webinar.



This week

These are the learning outcomes for this week:

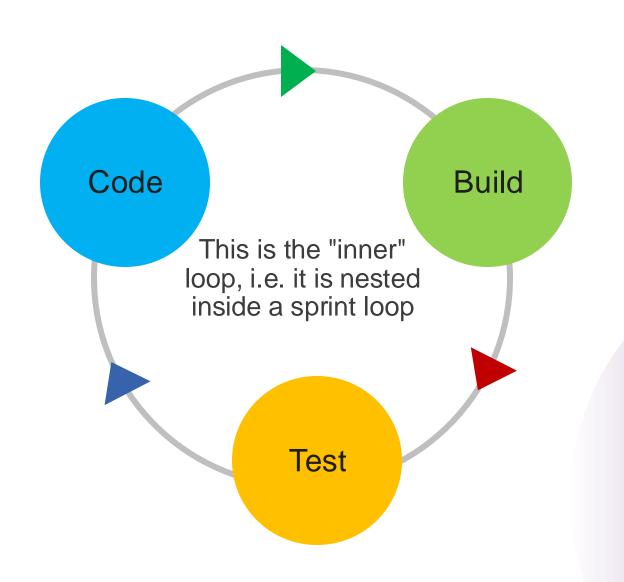
- Design cloud solutions based on user and business requirements.
- Evaluate use cases on whether they are suitable for cloud-based approaches.
- Monitor setup and running costs of cloud-native data products.
- Implement net-zero practices with right-sizing and auto-scaling policies.

You have a hackathon to help you reinforce them!

And we will talk you through a couple of slides to help with your "hacking".

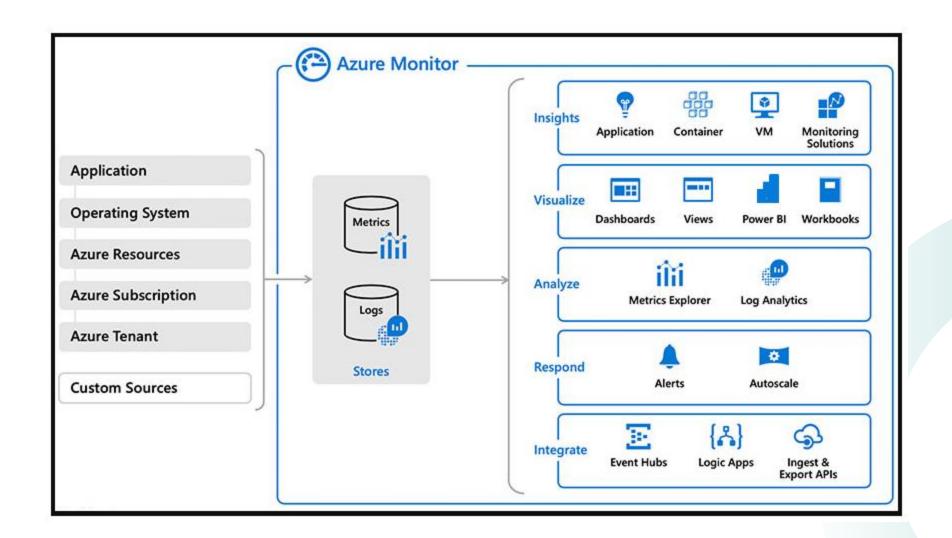


The inner loop





Azure Log Analytics example



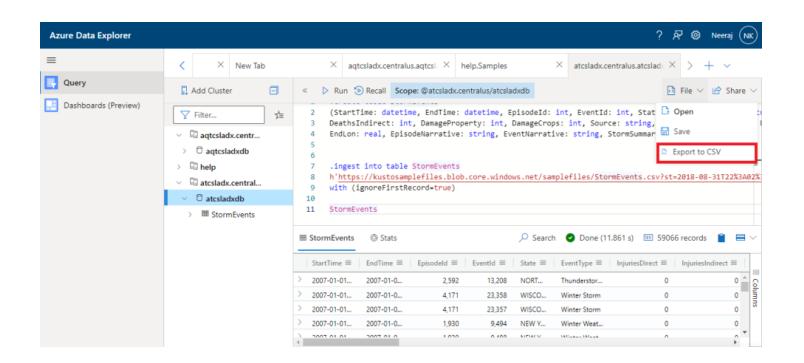


Kusto Query Language (KQL)

KQL is the language used to query Log Analytics. You may want to explore it:

https://learn.microsoft.com/en-us/kusto/query/

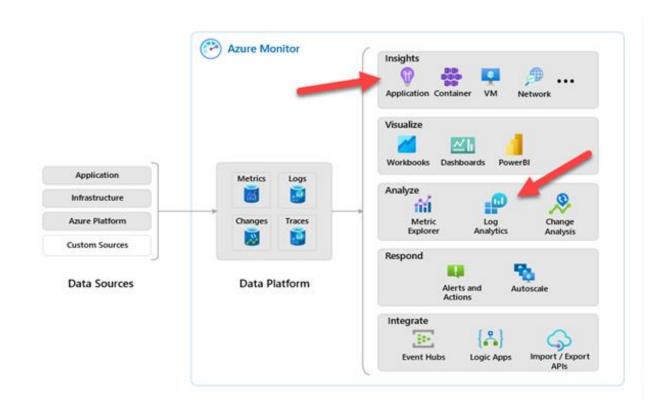
- 1. Supports data exploration, queries and control commands
- 2. Supported within multiple Azure services





Azure Monitor

What used to be known as Application Insights and Log Analytics independent offerings - are now a part of Azure Monitor





Monitoring application performance

Objectives:

- Deploy Azure App Service web apps
- Generate and monitor Azure web app application traffic
- Investigate Azure web app performance
- Track Azure web app usage
- Create Azure web app alerts

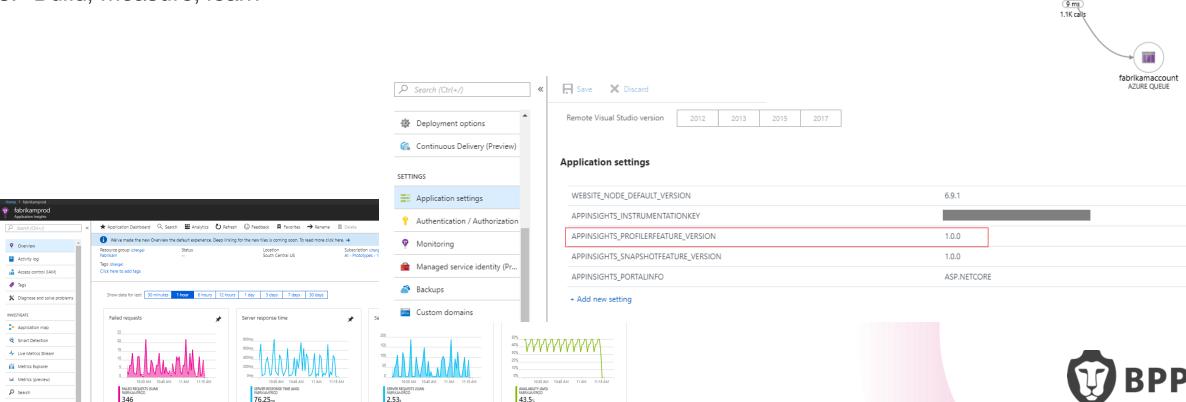


Why monitor apps?

Monitor

Availability

- Detect, diagnose
- Build, measure, learn



Analysis time (UTC)

03/27/2016, 07:56 - 07:58

Response code:

517 tests

Operation name:

Detected failed request rate Normal rate (8 minutes)

3.8K calls

fabrikamaccount AZURE BLOB

fabrikamxy...brikamISQL

93.8% (45/48) 78% of the failed requests affected 1 user and have these characteristics:

500 - Internal server error

POST Customers/Create

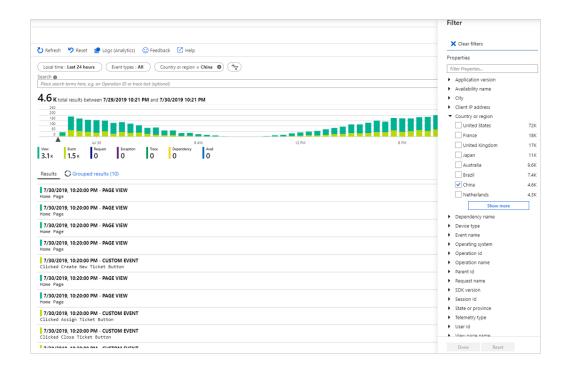
instance

012%

fabrikamprod

App Center Diagnostics

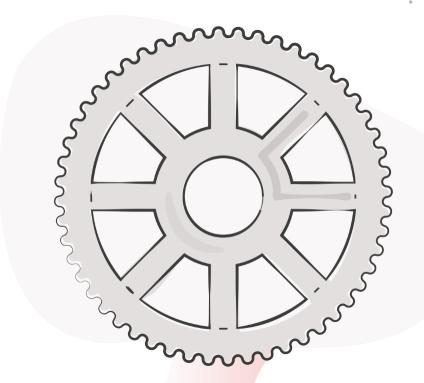
- 1. App Center Diagnostics is a cloud service that helps developers monitor the health of an application, delivering the data needed to understand what happens when an app fails during testing or in the wild
- 2. In the App Center Diagnostics UI, you can attach, view and download one binary and one test attachment to your crash reports
- 3. Track events leading up to a crash to capture useful information about the state of your app





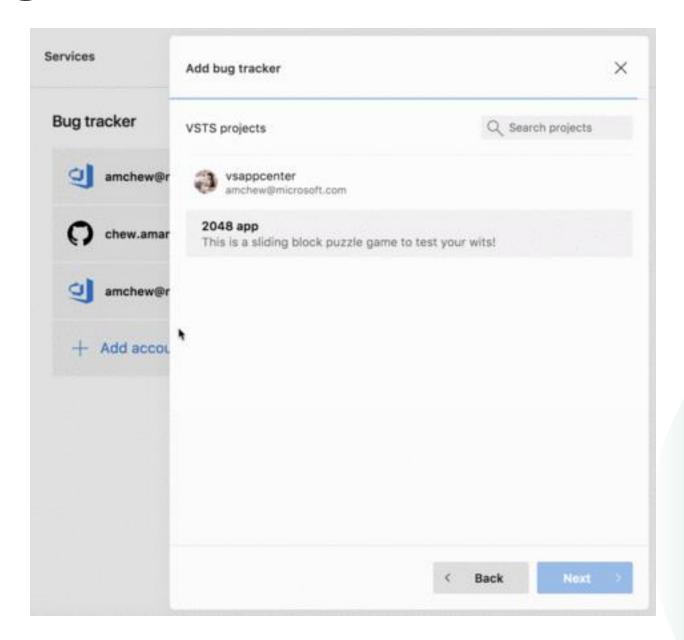
Configure alerts

- 1. Log into App Center and select your app
- 2. In the left menu, navigate to **Settings**
- 3. Click on Email Notifications
- 4. Select when a new crash group is created



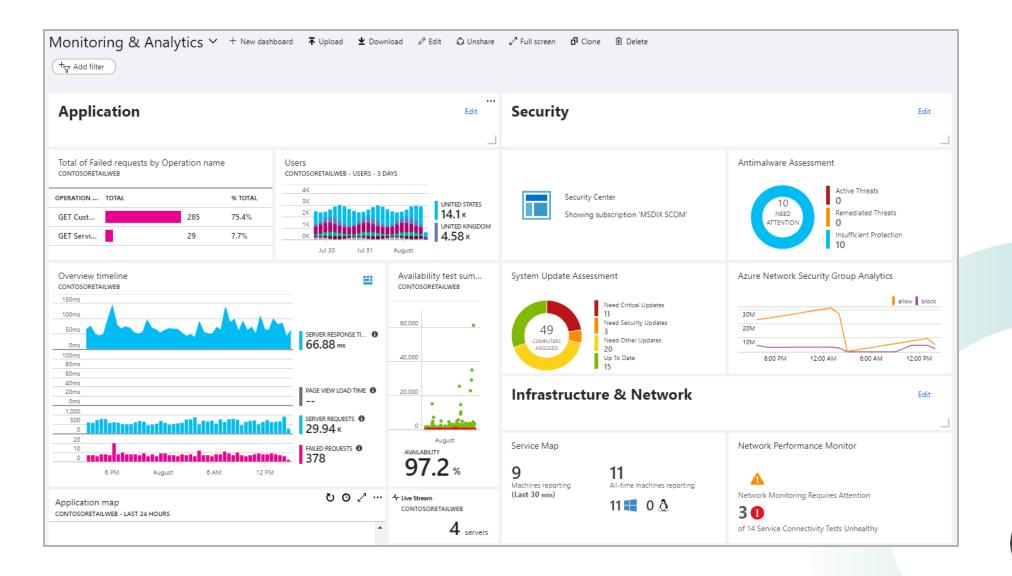


Create a bug tracker



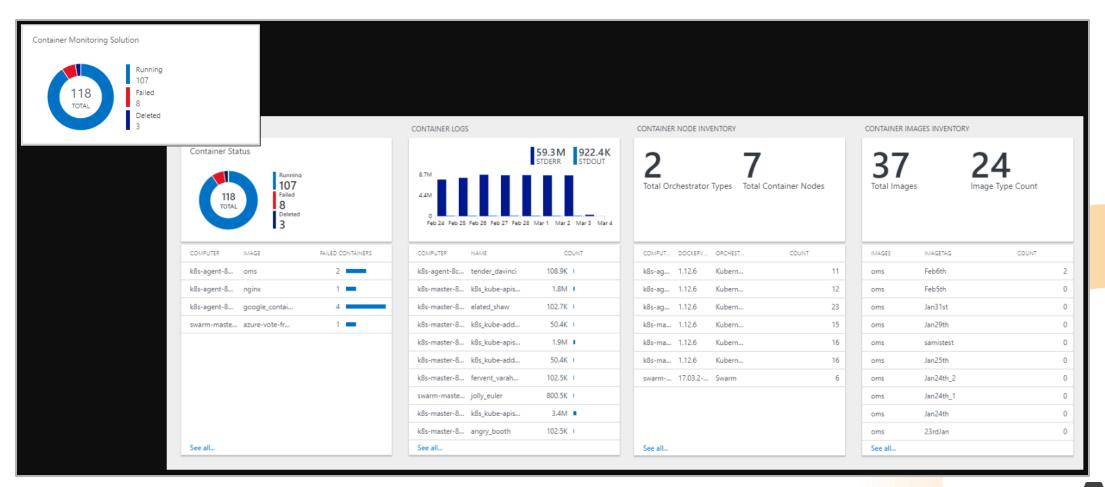


Azure Dashboards



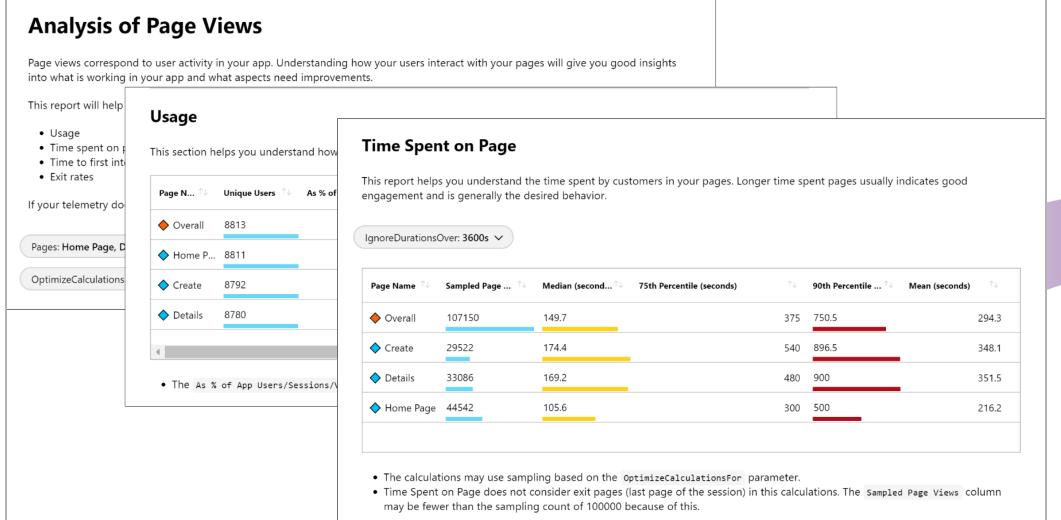


View Designer in Azure Monitor



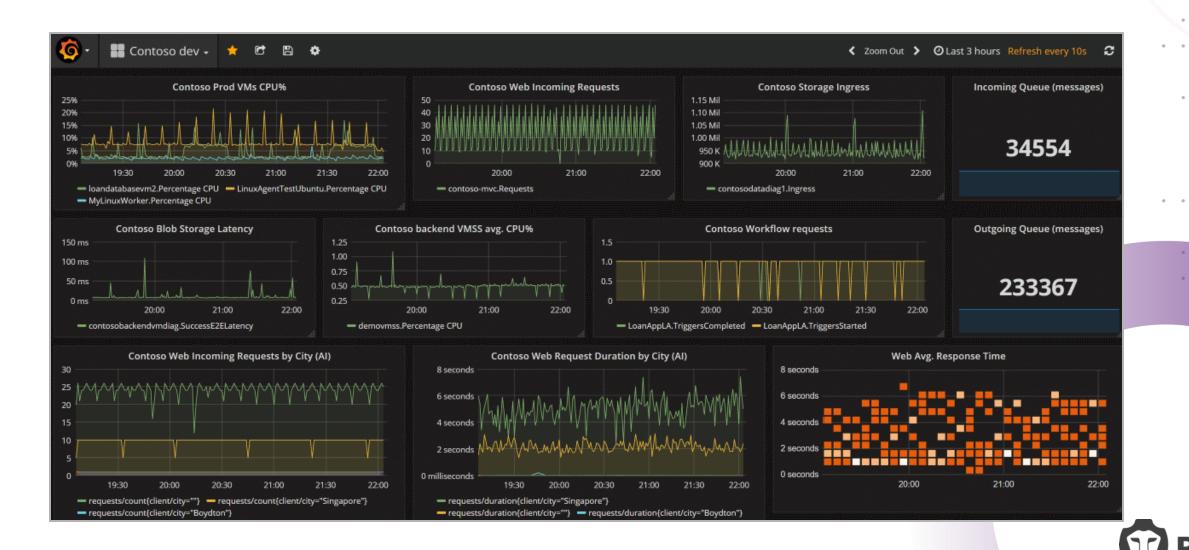


Azure Monitor workbooks





Grafana



Build your own custom application

Advantages:

- Complete flexibility
- Combine metrics and log data

Disadvantages:

Significant engineering required





Thank you

Do you have any questions, comments, or feedback?

