

Monitoring tools

Sergio Rubio Ugalde

sergio.rubio@wizeline.com



Sergio Rubio

- SRE Nivel 3
- 17+ years in IT industry
- Full stack developer



Important Notes



Identify yourself in Zoom, using your name and last name



Mute your microphone along the course unless you have questions



Raise the hand if you have questions during the session



Focus your questions on the presented topic



Turn off your camera in case of connection issues

DSA Code of Conduct



Be respectful, there are no bad questions or ideas.



Be welcoming and patient



Be careful in the words that you choose

Session Goal

At the end of this session, you will be able to:

- Describe the purpose of Azure Advisor
- Describe Azure Service Health
- Describe Azure Monitor, including Azure Log Analytics, Azure Monitor Alerts, and Application Insights

Introduction to tools that help you monitor your environment and applications

Azure Advisor

Describe the purpose of Azure Advisor

Azure Service Health

Describe Azure Service Health

Azure Monitor

Describe Azure Monitor

Table of Contents

Introduction

Introduction to features, tools for managing, and deploying resource

Monitoring tools

Azure provide tools that help you monitor your environment and applications, both in Azure and in on-premises or multi-cloud environments.

Monitoring Alerts Metrics -**P** Logs Health check 47 Diagnostic settings (preview) App Service logs 6 Log stream

Table of Contents

Introduction

Introduction to tools that help you monitor your environment and applications

Azure Advisor

Describe the purpose of Azure Advisor

Azure Service Health

Describe Azure Service Health

Azure Monitor

Describe Azure Monitor

prop

Azure Advisor

Azure Advisor is designed to help you save time on cloud optimization

Azure Advisor

Azure Advisor evaluates your Azure resources and makes recommendations to help improve reliability, security, and performance, achieve operational excellence, and reduce costs.

The recommendations are available via the Azure portal and the API, and you can set up notifications to alert you to new recommendations.



The recommendations are divided into five categories:

- **Reliability** is used to ensure and improve the continuity of your business-critical applications.
- **Security** is used to detect threats and vulnerabilities that might lead to security breaches.
- **Performance** is used to improve the speed of your applications.
- **Operational Excellence** is used to help you achieve process and workflow efficiency, resource manageability, and deployment best practices.
- **Cost** is used to optimize and reduce your overall Azure spending.



Table of Contents

Introduction

Introduction to tools that help you monitor your environment and applications

Azure Advisor



Describe the purpose of Azure Advisor

Azure Service Health

Describe Azure Service Health

Azure Monitor

Describe Azure Monitor

Azure Service Health

Microsoft Azure provides a global cloud solution to help you manage your infrastructure needs, reach your customers, innovate, and adapt rapidly

Azure Service Health

Azure Service Health helps you keep track of Azure resource, both your specifically deployed resources and the overall status of Azure. Azure service health does this by combining three different Azure services:

- Azure Status
- Service Health
- Resource Health



Azure Status

Is a broad picture of the status of Azure globally. Azure status informs you of service outages in Azure on the Azure Status page. The page is a global view of the health of all Azure services across all Azure regions. It's a good reference for incidents with widespread impact.



Service Health

It focuses on the Azure services and regions you're using. This is the best place to look for service impacting communications about outages, planned maintenance activities, and other health advisories because the authenticated Service Health experience knows which services and resources you currently use. You can set up alerts to notify you when service issues, planned maintenance, or other changes may affect the Azure services and regions you use.



Resource Health

It provides information about the health of your individual cloud resources, such as a specific virtual machine instance. Using Azure Monitor, you can also configure alerts to notify you of availability changes to your cloud resources.

virtual machine Orectory:	MICROSOFT						
P Search (Ctrl+/)	Add resource health alert	Diagnose and solve problems					
- Charge nacking	 Ø Available 						
Configuration management (Preview)	There aren't any known Azure platform problems affecting this virtual machine.						
Policies	What actions can you take?						
Run command	1. If you're having problems, use the Troublethost tool to get recommended solutions.						
Monitoring							
Insights	the shift followers						
Alerts	mealth history	Resource health events over the last 4 wee					
Metrics	Date	Description					
Diagnostic settings	06/18/2021	Available					
P Logs	09/17/2021						
Connection monitor (classic)							
Workbacks	06/16/2021	 Available 					
Automation	08/15/2021	Sveilable					
Api (Preview)	08/14/2021	S Available					
A Tasks (preview)	06/13/2021	O Available					
Export template	06/12/2021	O Available					
Support + troubleshooting	08/11/2021	O Available					
P Resource health	×08/10/2021	I health event()					
Boot diagnostics		Reboot initiated from inside the machine (Customer Initiated)					
R. Performance diagnostics		At Tuesday, August 10, 2021, 114858 PM EDT. the Azure monitoring system received the following information regarding your Visual machine:					
Keset password		A rebost was toloared from inside the virtual machine. This could be due to a virtual machine constraint sources follow on anthonized user or sourcess. The virtual machine will be hard online					
 Redeploy + reapply 	13/49/58 (CDD)	the reboot completes					
Serial console	124220 (201)	Recommended Steps					
Connection troubleshoot	1	Check back here for status updates					
Learning center	1	 If you're having problems, use the 'boubleshoot tool to get recommended solutions. 					
New Support Request		Download as PDF Was this helpful? Ye					

Table of Contents

Introduction

Introduction to tools that help you monitor your environment and applications

Azure Advisor

Describe the purpose of Azure Advisor

Azure Service Health



Describe Azure Service Health

Azure Monitor

Describe Azure Monitor

Azure Monitor

Azure Monitor can monitor Azure resources, your on-premises resources, and even multi-cloud resources

Azure Monitor

Is a platform for collecting data on your resources, analyzing that data, visualizing the information, and even acting on the results. Azure Monitor can monitor Azure resources, your on-premises resources, and even multi-cloud resources like virtual machines hosted with a different cloud provider.



Azure Log Analytics

Is a tool in the Azure portal to edit and run log queries from data collected by Azure Monitor logs and interactively analyze their results. You can use Log Analytics queries to retrieve records that match particular criteria, identify trends, analyze patterns, and provide various insights into your data.



Azure Monitor Alerts

Are an automated way to stay informed when Azure Monitor detects a threshold being crossed. You set the alert conditions, the notification actions, and then Azure Monitor Alerts notifies when an alert is triggered. Depending on your configuration, Azure Monitor Alerts can also attempt corrective action.

* Subscription () Contoso IT - demo		Resource group 🚯	Time Rang	Time Range 👩	
		mms-eus	✓ Past Hour		~
Contoso IT - demo > mms-e	us				
otal Alerts 29 ince 8/1/2018, 4:38:39 PM	Smart Groups 0 1 96.55% Reduction	Total Alert Rules 15 Enabled 13			Learn More About Alerts 🛛
SEVERITY	TOTAL ALERTS		NEW	ACKNOWLEDGED	CLOSED
Sev 0	26		26	0	0
Sev 1	0		0	0	0
Sev 2	3		3	0	0
Sev 3	0		0	0	0
Sev 4	0		0	0	0

Application Insights

Application Insights is capable of monitoring applications that are running in Azure, on-premises, or in a different cloud environment.

You can either install an SDK in your application, or you can use the Application Insights agent.

Once Application Insights is up and running, you can use it to monitor a broad array of information, such as:

- Request rates, response times, and failure rates
- Dependency rates, response times, and failure rates, to show whether external services are slowing down performance
- Page views and load performance reported by users' browsers
- AJAX calls from web pages, including rates, response times, and failure rates
- User and session counts
- Performance counters from Windows or Linux server machines, such as CPU, memory, and network usage



Table of Contents

Introduction

Introduction to tools that help you monitor your environment and applications

Azure Advisor

Describe the purpose of Azure Advisor

Azure Service Health



Describe Azure Service Health

Azure Monitor



Describe Azure Monitor

Resources



References of interest:

- Get started with Azure Advisor
- Intro to Azure Service Health
- <u>Monitor the usage, performance, and availability of</u> <u>resources with Azure Monitor</u>



Thank you