Real-Time Azure VM Monitoring with Grafana

This presentation will guide you through integrating Grafana with Azure VMs to gain valuable insights into your infrastructure's performance, optimize resource utilization, and proactively identify potential issues.

What is Grafana?

Open Source Dashboard

Grafana is an open-source analytics and monitoring platform that allows you to visualize data from various sources.

Intuitive Interface

Grafana offers an intuitive interface for creating interactive dashboards dashboards to monitor your Azure VMs effectively.

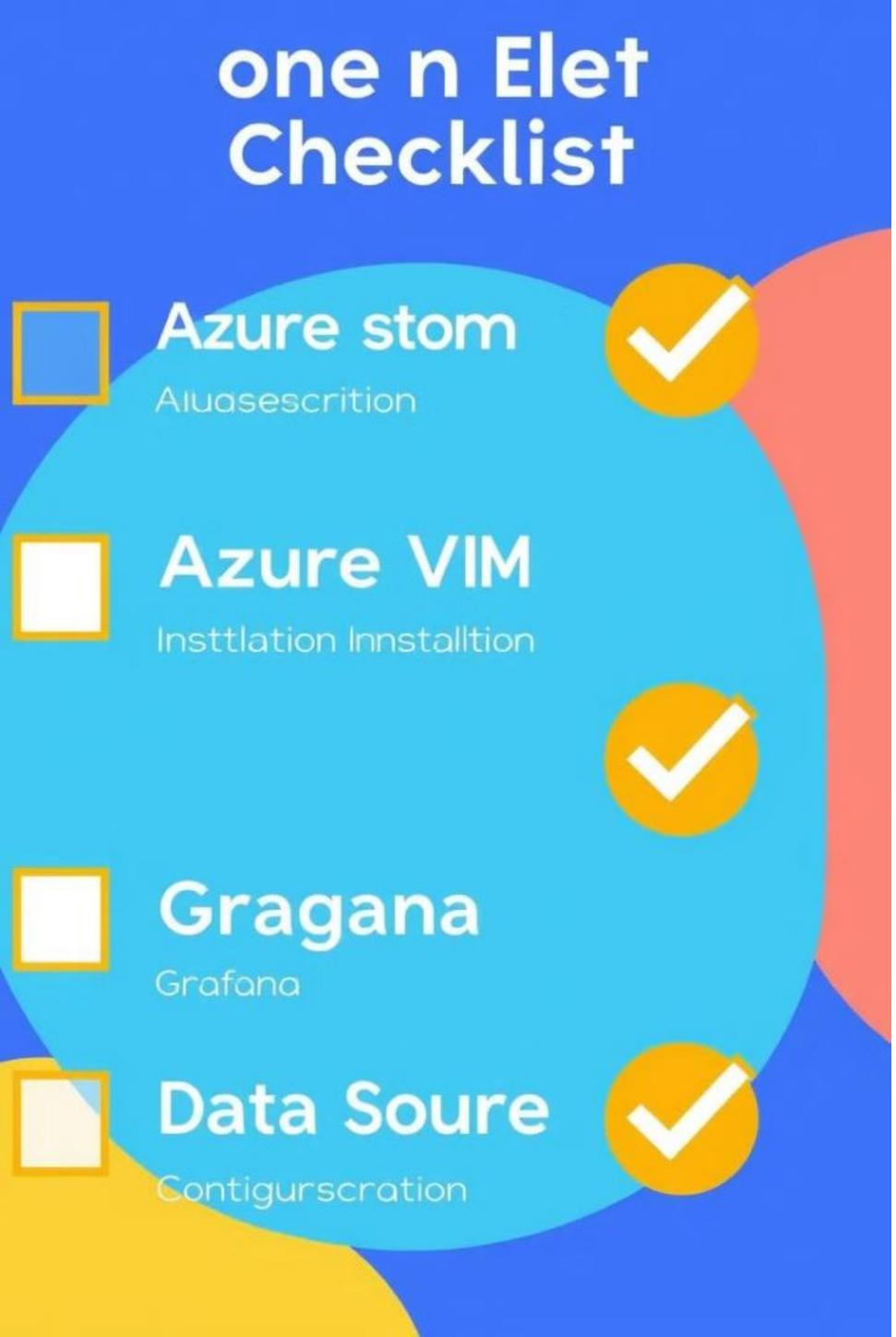
Why Use Grafana for Azure VM VM Monitoring?

Real-Time Visibility

Get immediate insights into your Azure VMs' performance with real-time data visualization.

Alerting & Notifications

Set up alerts for critical events and and receive timely notifications to to prevent outages.



Prerequisites for Grafana Integration

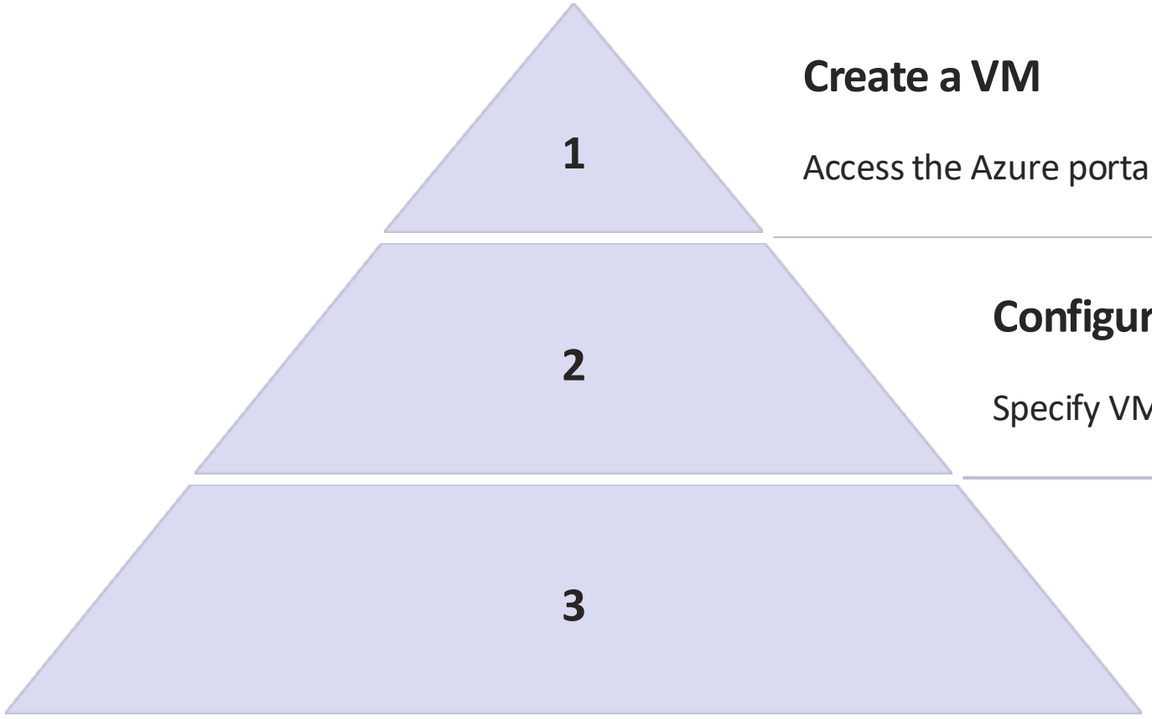
1 **Azure Subscription**

You need an active Azure subscription to create and manage VMs.

2 **Grafana Installation**

You need to install Grafana on on the Azure VM for monitoring. monitoring.

Step 1: Create an Azure VM



Create a VM

Access the Azure portal and launch the VM creation wizard.

Configure Settings

Specify VM size, operating system, storage, and networking settings.

Deploy VM

Deploy the VM to your Azure resource group.

Step 2: Install Grafana on the Azure VM

1

Download Grafana

Download the appropriate Grafana package for your VM's operating system.

2

Extract and Install

Extract the downloaded package and install Grafana using the command line.

3

Start Grafana

Start the Grafana service to access the web interface.

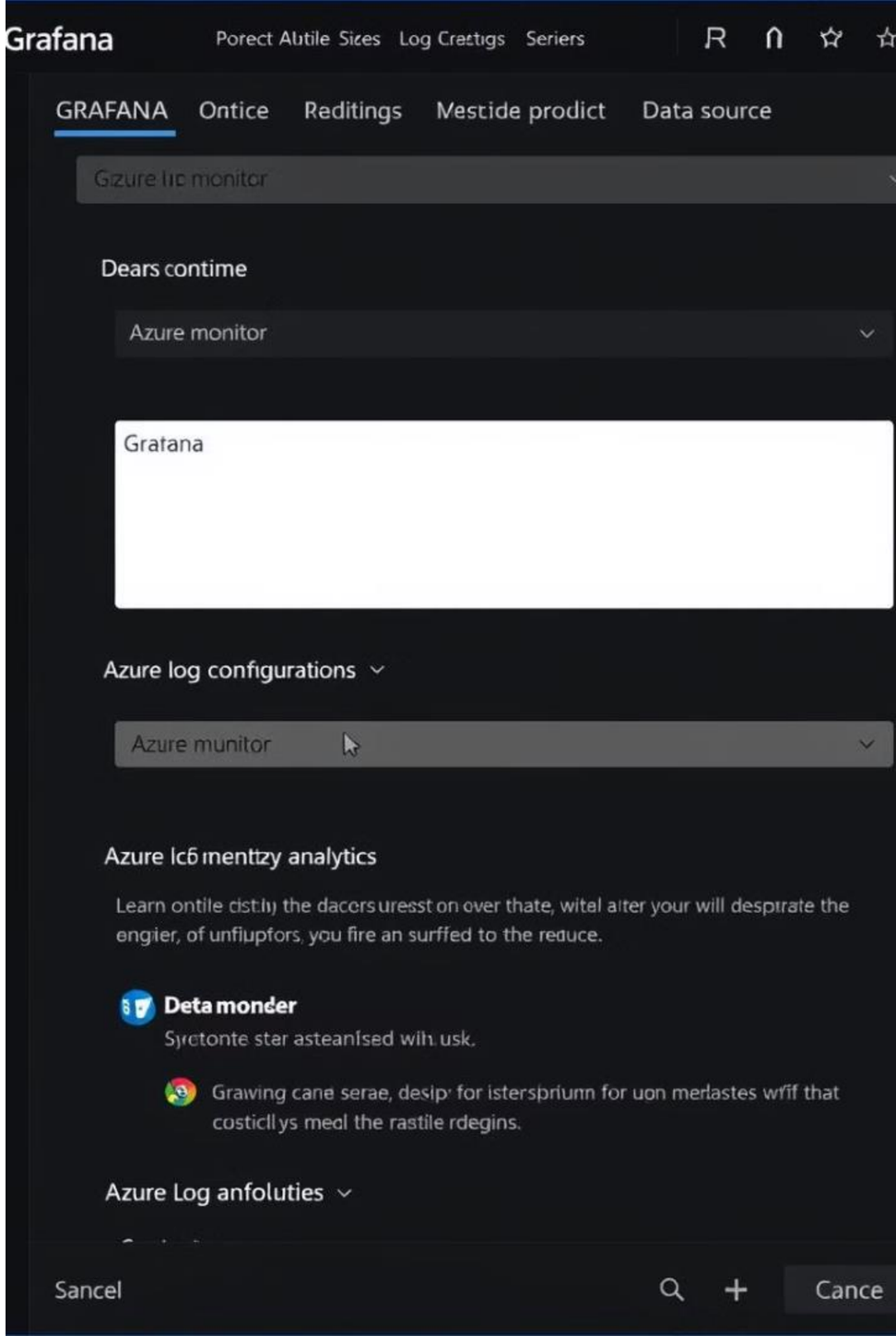
Step 3: Configure Grafana Data Sources

Azure Monitor

Configure Azure Monitor as a data source source to access VM metrics and logs. logs.

Azure Log Analytics

Connect Grafana to Azure Log Analytics for detailed insights and troubleshooting data.



Step 4: Create Grafana Dashboards

Add Panels

Select panels to display key metrics like CPU usage, memory, and network traffic.
network traffic.

1

Set Alerts

Define thresholds for alerts to receive timely notifications about potential issues.
potential issues.

3

2

Customize Visualizations

Choose from a variety of chart types and visualizations to represent the data
data effectively.

Benefits of Grafana Integration with Azure VM

1

Enhanced Visibility

Real-time insights into VM performance and resource utilization.

2

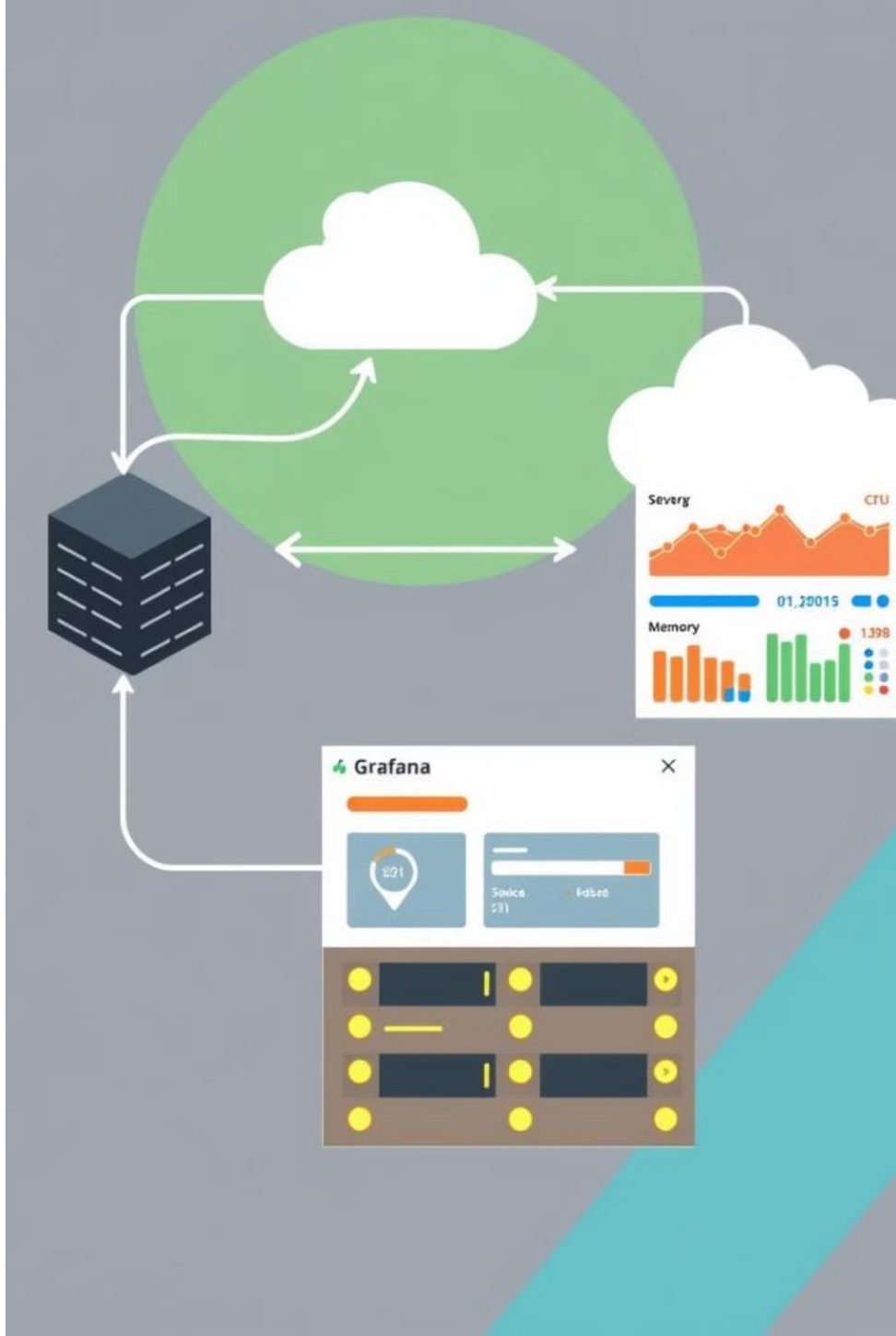
Proactive Monitoring

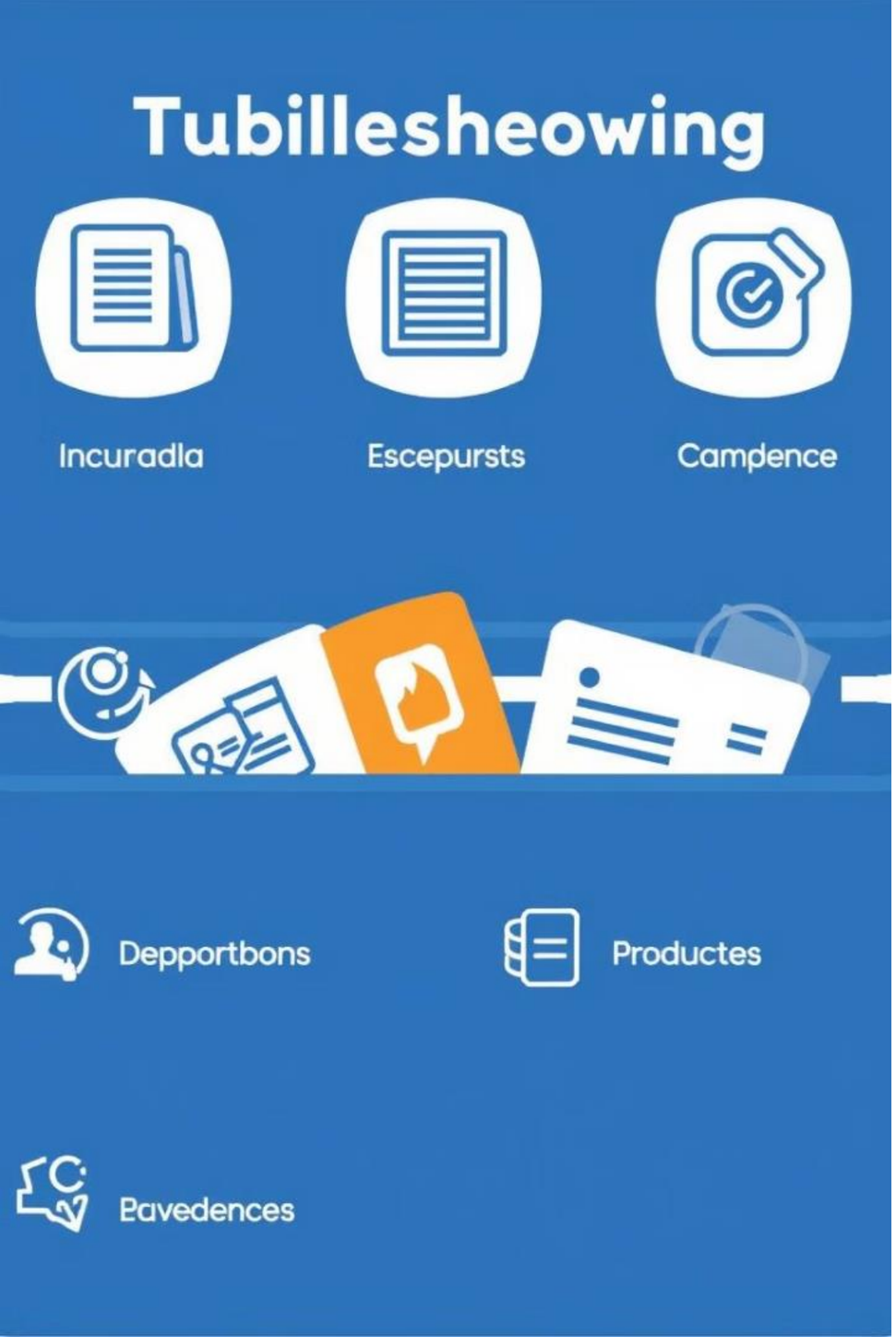
Identify and address potential issues before they impact your applications.

3

Cost Optimization

Optimize resource allocation and reduce unnecessary spending.





Best Practices & Troubleshooting

1

Use Existing Data Sources

Leverage Azure Monitor and Log Analytics for comprehensive data. data.

2

Security & Access Control

Implement appropriate security measures to protect your Grafana instance.

3

Monitoring & Maintenance

Monitor the health of Grafana and keep it updated.


thank You