Placement Empowerment Program :

Cloud Computing and Devops

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ABOUT:

Cloud-based monitoring in Azure provides real-time insights into the performance and health of resources. For a Storage Account, Azure Monitor collects and displays metrics such as availability, capacity, transactions, and latency. These metrics help track usage patterns, detect anomalies, and optimize performance. Users can view storage metrics through the Azure portal, configure alerts, and integrate with tools like Log Analytics for deeper analysis. This monitoring ensures efficient storage management, enhances security, and supports proactive troubleshooting.

SIGNIFICANCE:

Performance Optimization – Helps track storage performance metrics like latency, transactions, and throughput, allowing for efficient resource management.

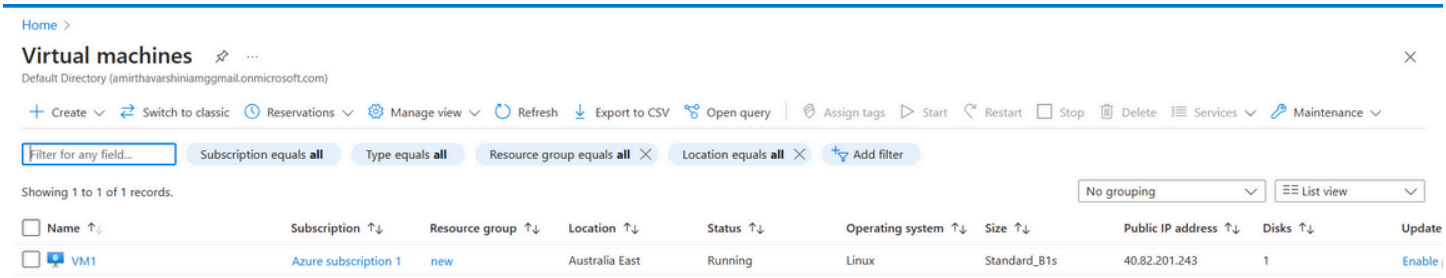
Proactive Issue Detection – Enables early identification of anomalies or failures through real-time monitoring and alerts, preventing downtime.

Cost Management – Provides insights into storage usage and trends, helping optimize costs by managing capacity and scaling efficiently.

Security & Compliance – Enhances security by detecting unauthorized access patterns and ensuring compliance with data governance policies.

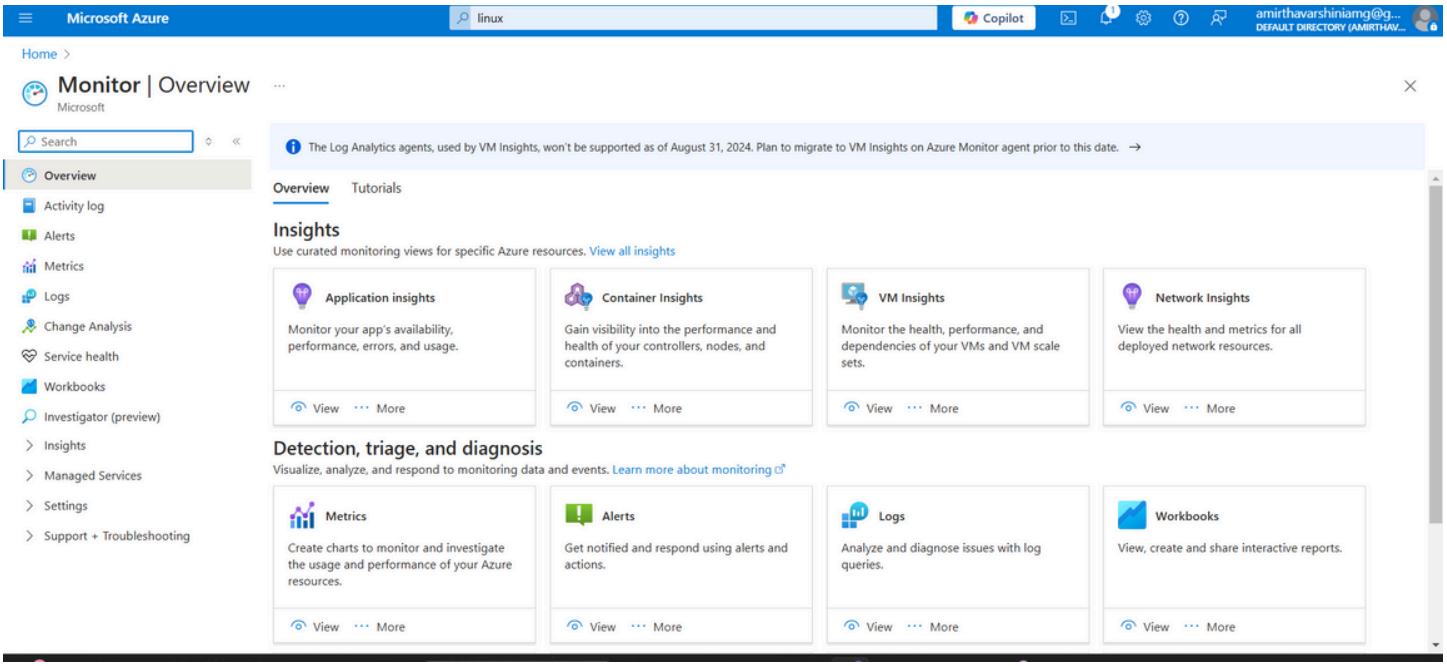
STEP 1:

Create a Virtual Machine and deploy it



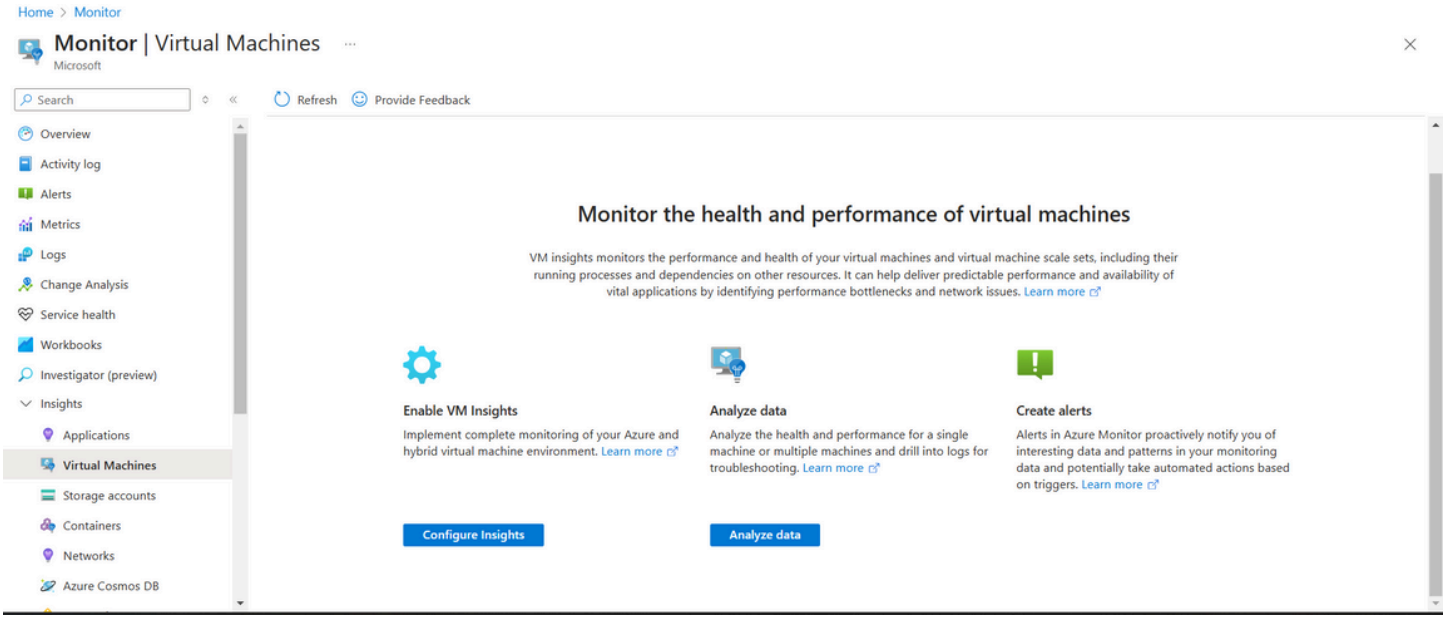
STEP 2:

Click on VM insights



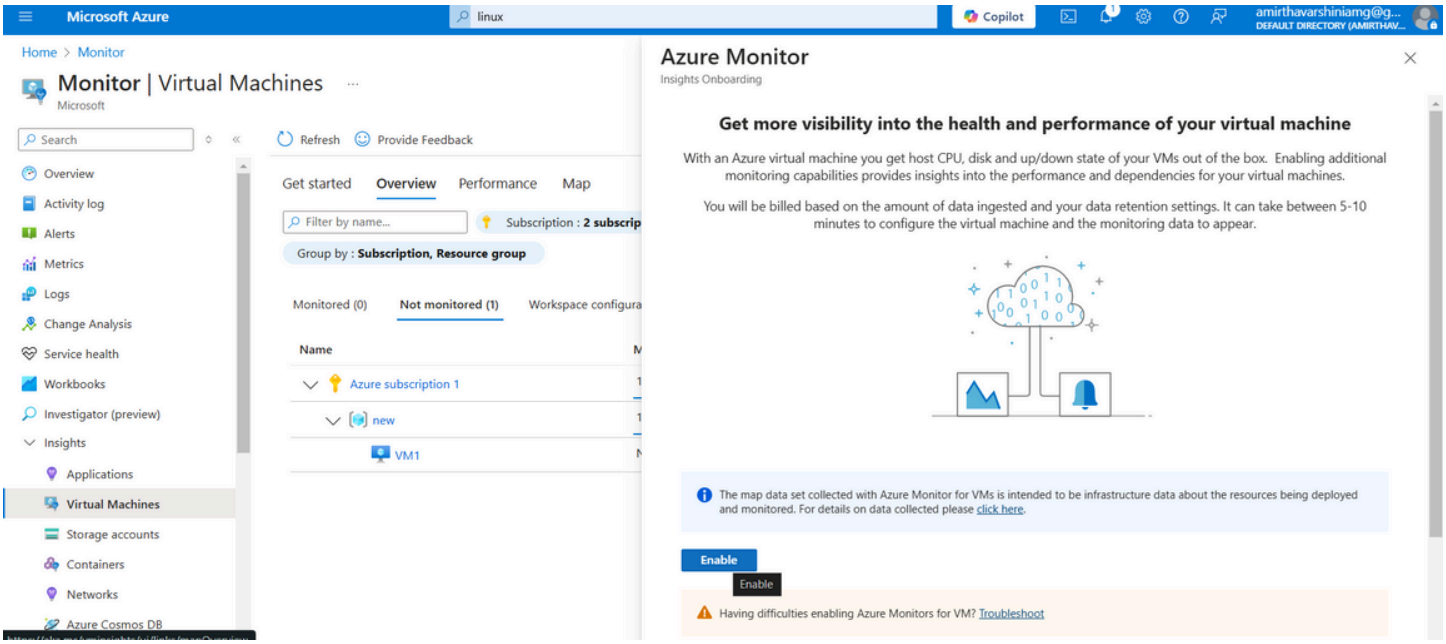
STEP 3:

Select Enable VM insights



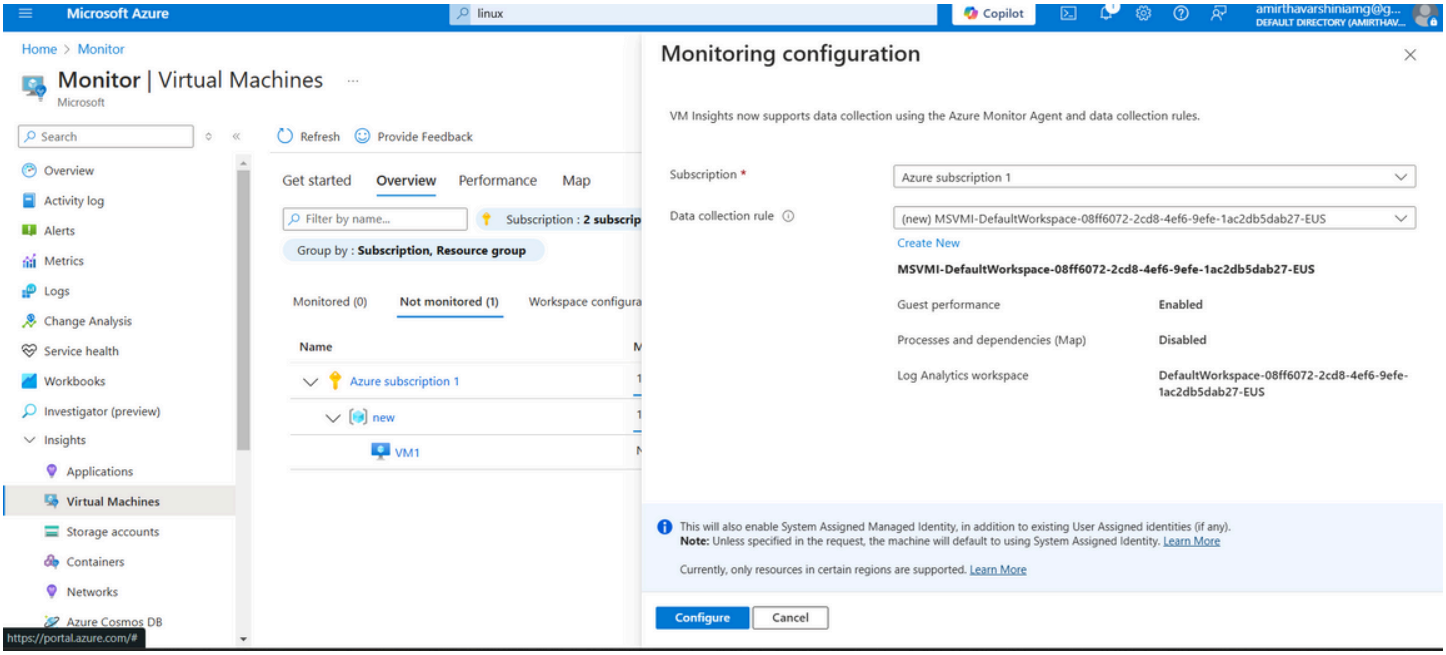
STEP 4:

Click on Enable to monitor the deployed virtual Machine



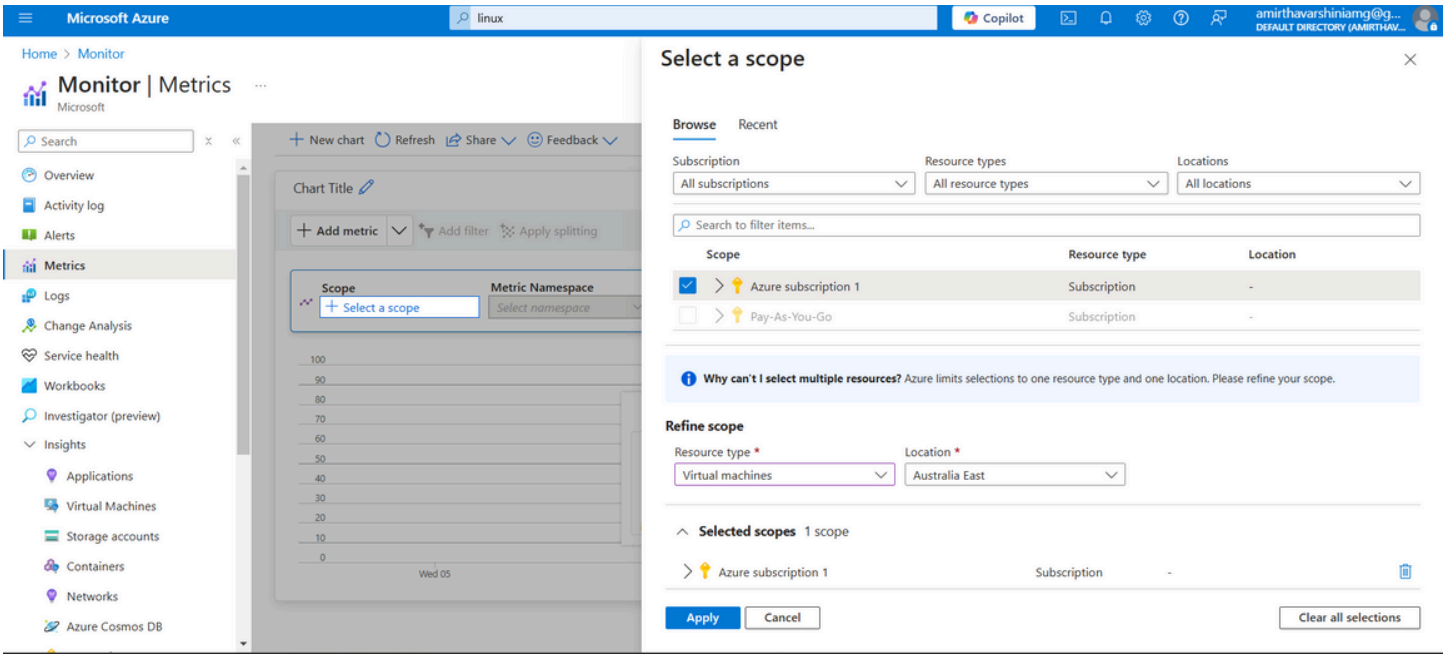
STEP 5:

Click on configure



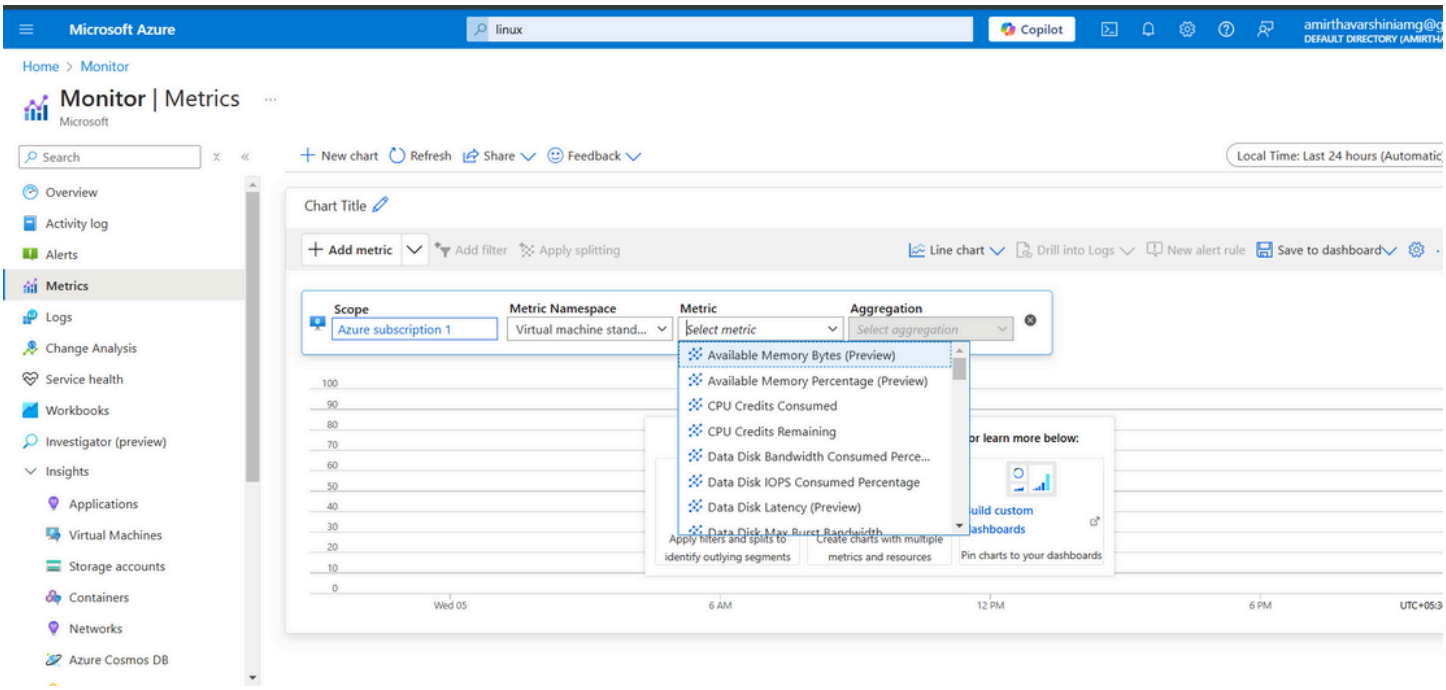
STEP 6:

Goto metrics and select virtual machines in the resource column

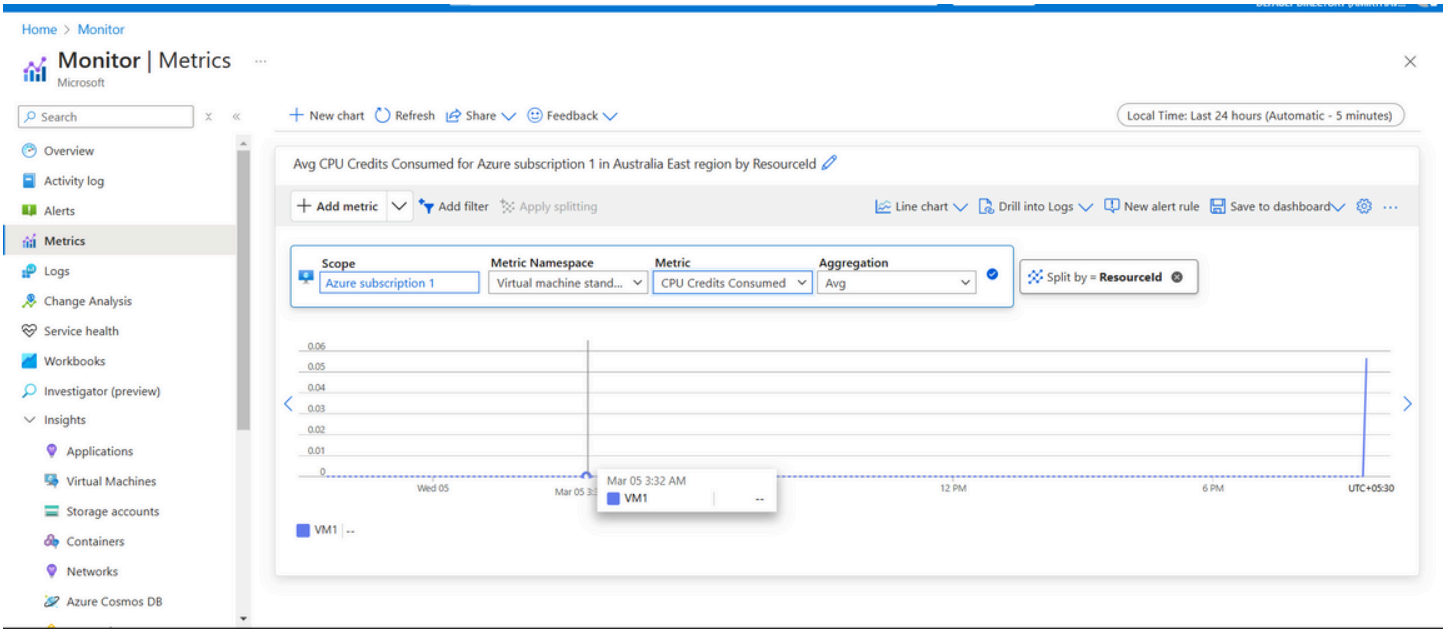


STEP 7:

Select the type of metric monitor that is required



STEP 8:



OUTPUT:

Real-Time Metrics Dashboard – Displays key performance indicators like availability, latency, and storage capacity in the Azure portal.

Alert Notifications – Sends alerts via email, SMS, or Azure Monitor when thresholds for performance or security events are breached.

Log Reports & Analytics – Generates logs and detailed insights using Azure Log Analytics for troubleshooting and performance tuning.

Cost & Usage Reports – Provides data on storage consumption and trends, helping optimize resource allocation and cost management.