**Monitoring and Maintenance**

Effective monitoring and maintenance are vital for ensuring optimal performance and reliability of Azure resources. Two key tools in this process are Azure Monitor and Log Analytics.

**Azure Monitor**

Azure Monitor provides comprehensive visibility into the performance and health of your applications and infrastructure. It collects metrics and logs from various Azure resources, enabling you to:

* **Track Performance**: Monitor application performance in real-time, identifying issues such as high latency or downtime.
* **Resource Utilization**: Analyze resource usage to optimize costs and ensure efficient scaling based on demand.
* **Alerts and Notifications**: Set up alerts for critical metrics to proactively address potential issues before they impact users.

**Log Analytics**

Log Analytics is a powerful tool within Azure Monitor that allows for detailed querying and analysis of log data. It enables you to:

* **Centralize Logs**: Aggregate logs from different sources, including applications, infrastructure, and Azure services, into a single location.
* **Advanced Queries**: Use Kusto Query Language (KQL) to perform complex queries, helping to identify trends, anomalies, and root causes of issues.
* **Visualizations**: Create dashboards and visual reports to gain insights into system performance and operational health.

By leveraging Azure Monitor and Log Analytics, organizations can enhance their monitoring capabilities, improve troubleshooting efficiency, and maintain high availability of their applications and services.