Exercise Sheet 10: Cloud Monitoring and Management

Questions and Answers

1. Monitoring Services: Compare cloud monitoring services like CloudWatch, Azure Monitor, and Stackdriver.

Answer:

- **CloudWatch (AWS):** Monitors resources and applications, collects and tracks metrics.

- **Azure Monitor:** Collects data from applications, infrastructure, and networks, providing full-stack monitoring.

- **Stackdriver (Google Cloud):** Offers monitoring, logging, and diagnostics for applications on Google Cloud and AWS.

2. Performance Metrics: Identify key performance metrics to monitor in cloud environments.

Answer: Key metrics include CPU utilization, memory usage, disk I/O, network traffic, response time, and error rates.

3. Alerting and Automation: Explain how to set up alerts and automate responses to incidents in the cloud.

Answer: Set up alerts using monitoring tools to trigger notifications or automated actions based on defined thresholds. Automation can include scaling resources, restarting services, or executing predefined scripts.