Core Assignment 5: Overview of Monitoring & Logging Tools

1. Provide a description, benefits, and use cases for each monitoring tool that we previously discussed.

Monitoring/logging tool	Description	Benefits (give at least 3 each)	Use Cases (give at least 3 each)
AWS CloudWatch	CloudWatch provides you with data and actionable insights to monitor your applications, respond to system-wide performance changes, and optimize resource utilization. CloudWatch collects monitoring and operational data in the form of logs, metrics, and events.	 Use a single platform for observability. Collect metrics on AWS and on premises Derive actionable insights from logs 	 Tracking all the incoming requests. Filtering the requests. It can collect and access all your performance and operational data in the form of logs and metrics from a single platform rather than monitoring them in a server, database, or network.
ELK Stack	"ELK" is the acronym for three open source projects: Elasticsearch, Logstash, and Kibana. Elasticsearch is a search and analytics engine. Logstash is a server-side data processing pipeline that ingests data from multiple sources simultaneously, transforms it, and then sends it to a "stash" like Elasticsearch. Kibana lets users visualize data with charts and graphs in Elasticsearch. The Elastic Stack is the next evolution of the ELK Stack.	 ELK is geared to handle big data to provide crucial business insights. ELK is simple to use, set up and is user friendly. As an opensource program, ELK is highly cost effective. 	 Log management Security monitoring and alerting E-commerce search solutions