

What tools can you use for container orchestration and monitoring?

Container Orchestration Tools

Tool Description

Kubernetes Industry standard for container orchestration with robust scaling,

deployment, and service discovery.

Amazon ECS/EKS AWS-native container services (ECS is simpler, EKS supports

Kubernetes).

Google Kubernetes

Engine (GKE)

Managed Kubernetes on Google Cloud.

Azure Kubernetes Service

(AKS) Microsoft's managed Kubernetes service.

Docker Swarm Lightweight alternative to Kubernetes, tightly integrated with Docker.

Nomad HashiCorp's orchestrator, suitable for both containerized and non-

containerized workloads.

OpenShift Red Hat's enterprise Kubernetes platform with built-in CI/CD and

developer tools.

Container Monitoring Tools

Tool Description

Prometheus Open-source metrics collection system; designed for

Kubernetes.

Grafana Visualization dashboard; often paired with Prometheus.

Datadog Commercial APM and infrastructure monitoring with

container insights.

New Relic Observability platform with container monitoring features.

Dynatrace AI-powered monitoring with auto-discovery of containers.

Log collection and analysis stack (Elasticsearch, Logstash,

Elastic Stack (ELK)

Log collection and analysis stack (Elasticsearch, Logstash,

Kibana).

Sysdig Monitoring and security for containers, often used in

DevSecOps.

AWS CloudWatch AWS-native monitoring tool for ECS/EKS and other services.

Google Cloud Operations

(Stackdriver) Native GCP monitoring for GKE and workloads.

Which of the following is NOT a Kubernetes-based orchestration tool?

- A. Amazon EKS
- B. Google Kubernetes Engine (GKE)
- C. Docker Swarm
- D. Azure Kubernetes Service (AKS)
- Answer: C. Docker Swarm

Prometheus is mainly used for:

- A. Log aggregation
- B. Distributed tracing
- C. Metrics collection and alerting
- D. Continuous deployment
- **✓ Answer:** C. Metrics collection and alerting

Which tool is most commonly paired with Prometheus for dashboards and visualization?

- A. Jaeger
- B. Grafana
- C. Zipkin
- D. Dynatrace
- **✓ Answer:** B. Grafana