Quiz: Understanding What Kubernetes Doesn't Do

Kubernetes is a powerful container orchestration tool, but it's not a silver bullet for all deployment and management scenarios. It doesn't eliminate the need for DevOps practices; you still need to manage, maintain, and design your application's architecture. Kubernetes won't write your code, won't provide application-level services like databases, message queues, nor does it serve as a replacement for application-level clustering and failover mechanisms. It focuses on the deployment, scaling, and management of containerized applications but leaves the specifics of how applications are developed, including their internal communication and data management strategies, up to the developers.

Other Orchestration Tools Apart from Kubernetes
Docker Swarm: Docker's native clustering tool, designed to be simple to set up and integrate well with the Docker ecosystem.

Apache Mesos: A more general cluster manager that can run other applications alongside Docker containers, providing a broad range of resource management features.

Nomad by HashiCorp: A workload orchestrator that can deploy a mix of containerized, virtualized, and standalone applications across on-premises and cloud environments.

OpenShift: Red Hat's Kubernetes distribution that adds developer and operational tools on top of Kubernetes to enable rapid application development, easy deployment, and scaling.

Rancher: An open-source platform for managing Kubernetes in production, providing a complete software stack for teams adopting containers