What Kubernetes does not perform

- How Continuous Integration, Delivery, and Deployment (CI/CD) processes work is influenced by the culture, preferences, and technical needs of each organization.
- Kubernetes, it doesn't put your source code into action, and it doesn't construct your application.
-
- Kubernetes doesn't offer application-level services like middleware, data-processing frameworks, databases, caches, or cluster storage systems as integral services. Instead, these components can either operate on Kubernetes or be utilized by applications on Kubernetes using portable methods, like the Open Service Broker.
-
- Kubernetes doesn't enforce specific choices for logging, monitoring, or alerting solutions. It offers some integrations as examples and provides tools to gather and export metrics.
-
- Kubernetes does not offer or endorse all-encompassing systems for machine configuration, maintenance, management, or self-healing.
-
- Kubernetes goes beyond being just an orchestration system. In reality, it removes the necessity for traditional orchestration. Traditional orchestration involves executing a predefined workflow, like doing A first, then B, then C. However, Kubernetes is made up of separate, flexible control processes that consistently guide the present state toward the desired state you specify. The specific path from A to C shouldn't be a concern. There's no need for centralized control either. This approach makes Kubernetes easier to use and enhances its strength, durability, resilience, and flexibility.

What other Orchestration tools are available other than Kubernetes

- Docker Swarm
- Apache Mesos
- Google Kubernetes Engine
- OpenShift
- Rancher
- SwarmKit