

# Summary

- Podman Compose is an open source tool to run Compose files.
- Podman Compose removes the need to run the Podman service that provides the API socket, to save resources and to provide a more native and lightweight solution.
- Podman Compose translates Compose files into Podman CLI commands.
- The `podman generate kube` command generates a Kubernetes YAML file from existing Podman containers, pods, and volumes.
- The `podman play kube` command reads the Kubernetes YAML file, and then recreates the defined resources in a Kubernetes or an RHOCP cluster.
- You can use Podman Compose to quickly build a stateful, multi-container environment for your applications.
- You can restrict communication between specific containers by defining additional networks for the pod and then defining the network settings.
- You can use Podman Compose to approximate a production environment on your local machine by providing applications, databases, or cache systems configuration in a single file.
- You can use Podman Compose to execute your application and database containers in isolated local environments.
- Using Podman Compose in a production environment is not recommended, because it does not support advanced features that you might need in a production environment, such as load balancing and distributing containers to multiple host machines, or nodes. Instead, use Kubernetes or RHOCP for a production container orchestration solution.