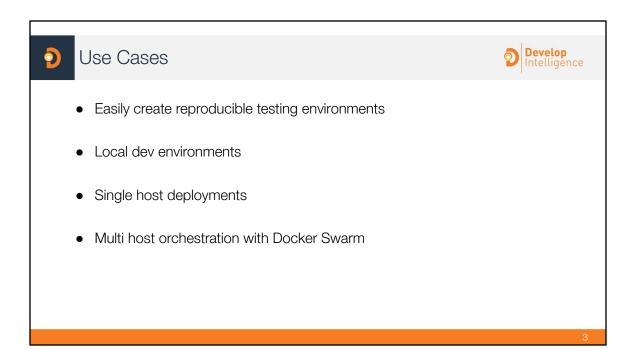
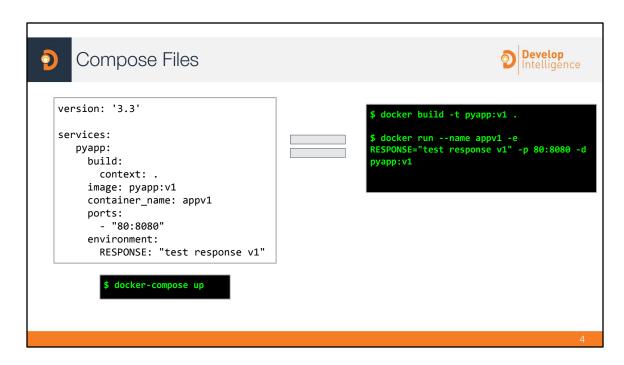


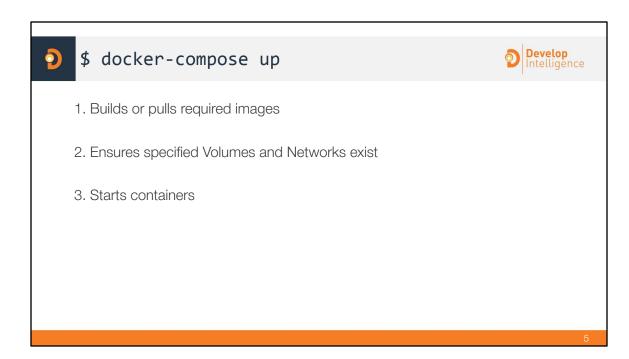
Module Outline Compose Use Cases Compose files Demo



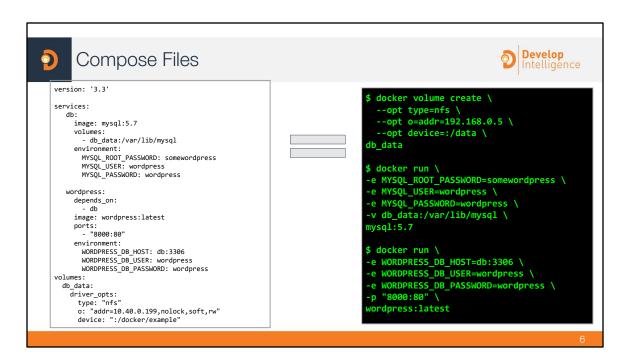
Similar to Vagrant for creating and starting up dev environments. Or helm for deploying complex applications onto Kubernetes. A simple way to treat a multiple container application as a single unit.



With compose, you simply define a file that has all of the options specified for starting your container. This gives you an easy way to consistently run your application, and this compose file could be version controlled and shared easily.



This single command will read your compose file and do everything needed to run the application. This might include building the contain images, creating a network on the host for the containers to run in, creating volumes, and then finally starting the containers.



The real power comes in complex setups. One thing to note, when volumes are created by docker compose, they must be explicitly deleted with the '--volumes' flag on docker-compose down commands. This is so you can redeploy your application and have the data persist.

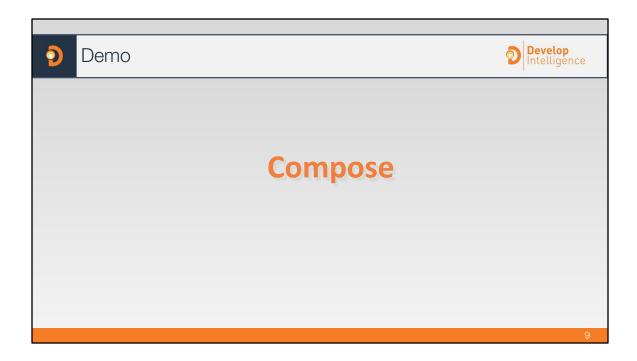
Compose Files (dev environment) **Develop** Intelligence \$ docker build -t pyapp:v1 . version: '3.3' \$ docker run --name pyapp_dev \ -p 80:8080 services: -v ".:/app" pyapp_dev: -d pyapp:v1 build: . container_name: pyapp:v1 command: python /app/app.py ports: - 80:8080 volumes: \$ # Edit my code locally # Mount the code to avoid image rebuilds \$ vi app.py \$ # Run the new code \$ docker-compose restart



Commands



- \$ docker-compose up
- \$ docker-compose down [--volumes]
- \$ docker-compose restart
- \$ docker-compose run
- \$ docker-compose logs





Additional Resources



- Amazing tutorial blog post -https://takacsmark.com/docker-compose-tutorial-beginners-by-example-basics/
- Compose file reference https://docs.docker.com/compose/compose-file

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