OpenShift Developer

Migrating Workloads

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Self introduction

Name: Wanja Pernath

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Base: Germany (very close to the Alps)

Role: EMEA Technical Partner Development

Manager – OpenShift and MW

Experience: Years of Consulting, Training,

PreSales at Red Hat and before

Agenda

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- What is konveyor.io
- About the sub projects
  - Crane
  - Move2Kube
  - Tackle
- Summary

About Konveyor

About

- Konveyor is a collection of software projects to "Accelerate the journey to Kubernetes"
- Konveyor is helping users to rehost, replatform and refactor applications to Kubernetes
- https://konveyor.io
- Basically, it is a collection of software applications to help moving existing apps to OpenShift / Kubernetes
- The state of most apps is alpha/beta right now. Some are more stable than others

About Crane

Crane

- Crane to "rehost container-based applications between Kubernetes Clusters"
  - Discovery of namespaces and PVCs
  - Migration of objects and persistent data
  - Extending migration with pre and post automation hooks
- For example:
  - OpenShift 3 to OpenShift 4 migration
  - OpenShift 3 to OpenShift 3 migration
  - OpenShift 4 to OpenShift 4 migration

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About Move2Kube

Move2Kube

- Tooling to help re-platforming an application to Kubernetes by analyzing source artifacts. It generates target artifacts based on the sources
    - Migrate Docker compose/swarm apps
    - Migrate Cloud Foundry apps
    - Migrate "VM" apps
        - Basically, any Java, PHP, Go… source code gets analyzed
        - It uses OpenShift S2I or cloud native buildpacks to create everything needed based on the source
- Use Move2Kube to try to move any app which has a representation in OpenShift S2I to OpenShift

About Takle

Tackle

- Tackle is a collection of tools that help you move all the way from assessing your app portfolio to getting containerization recommendations, to automated testing for your modernized app
  - **Tackle Application Inventory:** Maintaining all your applications
  - **Tackle Pathfinder:** A questionnaire tool that assesses the suitability of apps for modernization
  - **Tackle Controls:** A collection of entities that add value to App Inventory and Pathfinder
  - **Tackle DiVA:** Data-centric application analysis tool
  - **Tackle Test Generator:** An automatic test-generation tool
  - **Tackle Container Advisor:** Gives recommendations on the best possible containerization approach for your legacy applications

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Summary

Summary

- If you're currently starting the process of moving all your legacy app on to Kubernetes, have a look at those tools and provide feedback to the developers
- They might at least give you some hints how hard it is to migrate your apps
- Move2Kube gives you a good support of moving any Docker, CloudFoundry and / or native app to Kubernetes with artifact generation

Thank you!

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