Konveyor Move2Kube

Accelerate your journey to Kubernetes/Openshift

Toolkits and Web Services Overview



Migration Toolkit for Applications

Tools and services that help customers migrate and modernize applications to run on OpenShift



Migration Toolkit for Virtualization

Tools and services that help customers migrate to OpenShift Virtualization



Migration Toolkit for Containers

Tools and services that help users migrate containers between OpenShift clusters



Move2Kube

An open source project that can increase the efficiency of moving from Swarm and Cloud Foundry to Kubernetes

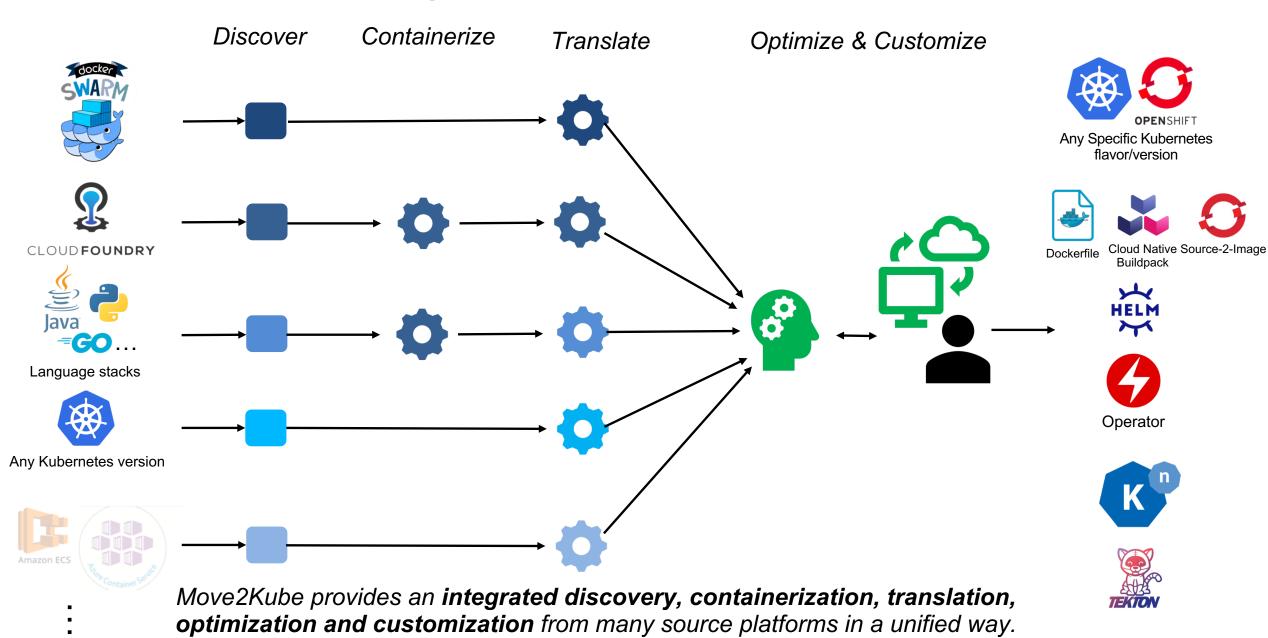


Accelerating Digital Transformation the Open Source Way



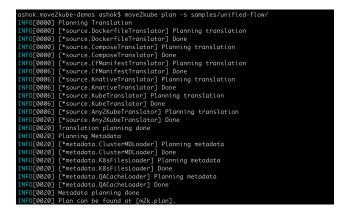
The Konveyor Community is a group of people passionate about helping others modernize and migrate their applications to the hybrid cloud by building tools, best practices, and providing advice on how to break down monoliths, adopt containers, and embrace Kubernetes.

Move2Kube: Accelerate+Optimize move to Kubernetes



Usage modes

Command line tool



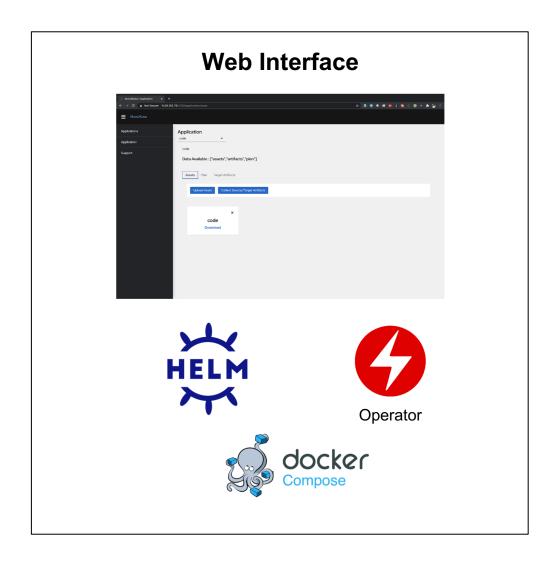


curl -L https://raw.githubusercontent.com/konveyor/move2kube/master/scripts/install.sh | bash -



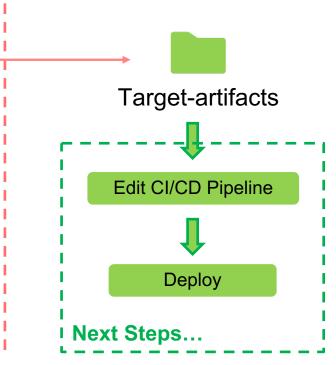


go get -u github.com/konveyor/move2kube



One step usage

\$ move2kube translate -s src/ Move2Kube



Involved Usage

Plan generates a plan file containing a transformation proposal (including containerization options) for all services discovered from various sources.

Inputs: src – Directory containing source code

and collected artifact files.

Outputs: Plan file

Analyze code & collected artifacts and correlate

Step 1: \$ move2kube plan -s src/



Optional: \$ move2kube collect

Scrape from source and target runtime environments

Collect crawls metadata about the source and target runtime environments such as:

- Supported object kinds in cluster
- Apps running in cloud foundry instance
- Meta-information from local docker images.

Inputs: The terminal context should have cf and kubectl logged in.

Outputs: Data from runtime instances as files.

Translate transforms the input source artifacts. as per the generated plan, into target artifacts containing:

Inputs: Plan file and src.

Outputs:

- Scripts for containerization.
- Helm chart and Operator.
- Docker compose file.

Optimize and Translate

Step 2: \$ move2kube translate

Target-artifacts

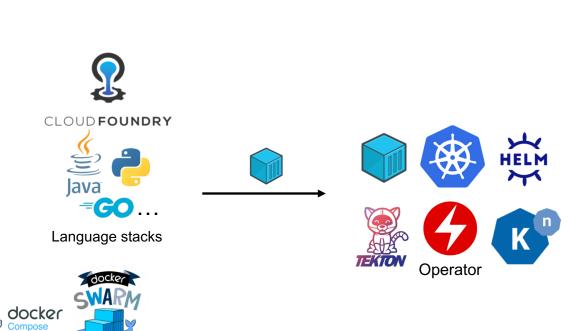
Edit CI/CD Pipeline

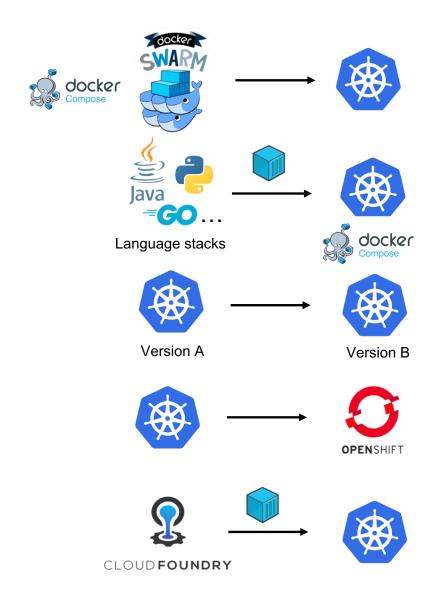
Deploy

Next Steps...

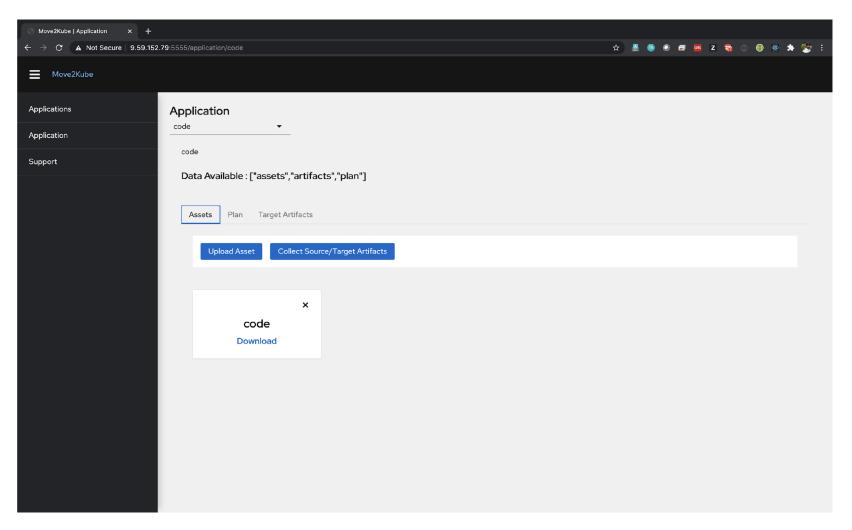
Move2Kube

Usecases





Web UI



Clone https://github.com/konveyor/move2kube-ui and do `docker-compose up`

Requirements

rtifact available	Features supported
Manifest files	Containerization options from buildpacks, Deployment artifacts
ISPITACE TILAC SOLIFCA CODA	Containerization options based on buildpack/source code, Deployment artifacts
Cloud Foundry Manifest files, Source code, Access to running instance	Containerization options based on buildpack/source code, Deployment artifacts, Metadata from runtime
CCASE TO PUNNING INSTANCA	Metadata from runtime, Containerization options based on buildpack, Deployment artifacts
ocker compose files	Deployment artifacts
Docker Compose/Swarm Docker compose files, Docker images	Deployment artifacts, Ability to enhance images to run in secure environments like Openshift.
OURCE CORE WITH HO SOURCE METABATA	Containerization options based on source code, Deployment artifacts
CCDCC IN IDINAT CILICIAL	Ability to create artifacts customized for that particular cluster with the most preferred GroupVersion for the kind.
	anifest files anifest files, Source code anifest files, Source code, Access to running tance cess to running instance cker compose files cker compose files, Docker images urce code with no source metadata

Command line support: Linux/mac/Windows (WSL)

Contributions are welcome!

Head over and submit PRs



https://github.com/konveyor/move2kube https://github.com/konveyor/move2kube-api



https://github.com/konveyor/move2kube-ui





https://github.com/konveyor/move2kube-operator



https://github.com/konveyor/move2kube-tests



https://github.com/konveyor/homebrew-move2kube

