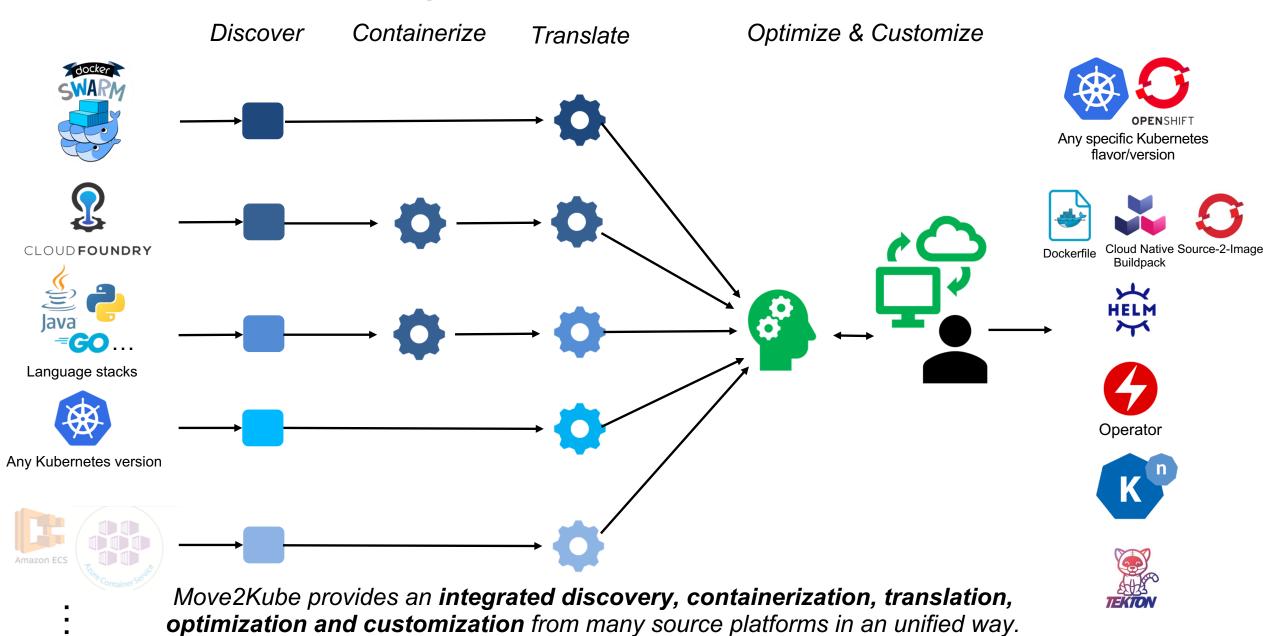
Konveyor Move2Kube Accelerate your journey to Kubernetes/Openshift

Move2Kube: Accelerate+Optimize move to Kubernetes



https://konveyor.io/move2kube/

Usage modes

Command line tool

```
FO[0000] Planning Translation
NFO[0000] [*source.DockerfileTranslator] Planning translation NFO[0000] [*source.DockerfileTranslator] Done
FO[0000] [*source.ComposeTranslator] Planning translation
IFO[0000] [*source.ComposeTranslator] Done
          [*source.CfManifestTranslator] Planning translation
IFO[0006] [*source.CfManifestTranslator] Done
IFO[0006] [*source.KnativeTranslator] Planning translation
FO[0006] [*source.KnativeTranslator] Done
IFO[0006] [*source.KubeTranslator] Planning translation
IFO[0006] [*source.KubeTranslator] Done
 FO[0006] [*source.Any2KubeTranslator] Planning translation
IFO[0020] [*source.Any2KubeTranslator] Done
FO[0020] Translation planning done
FO[0020] Planning Metadata
IFO[0020] [*metadata.ClusterMDLoader] Planning metadata
FO[0020] [*metadata.ClusterMDLoader] Done
NFO[0020] [*metadata.K8sFilesLoader] Planning metadata
NFO[0020] [*metadata.K8sFilesLoader] Done
IFO[0020] [*metadata.QACacheLoader] Planning metadata
IFO[0020] [*metadata.QACacheLoader] Done
FO[0020] Metadata planning done
```



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

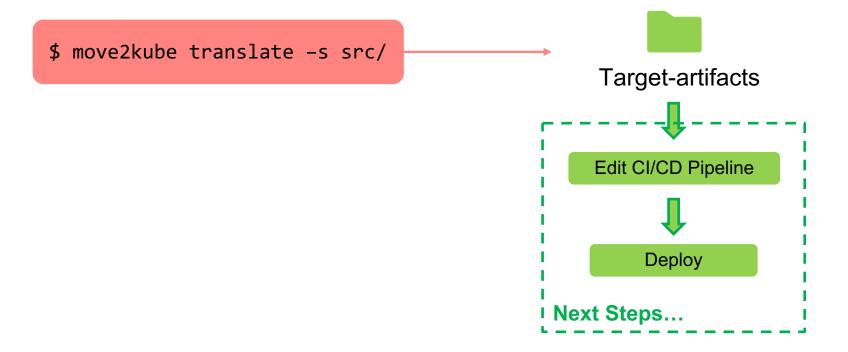




go get -u github.com/konveyor/move2kube



One step usage



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:

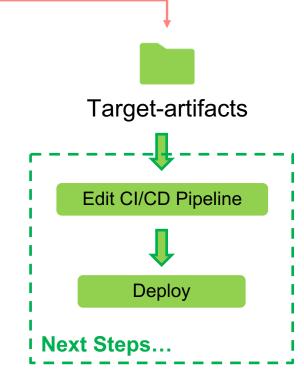
Inputs: Plan file and src.

Outputs:

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

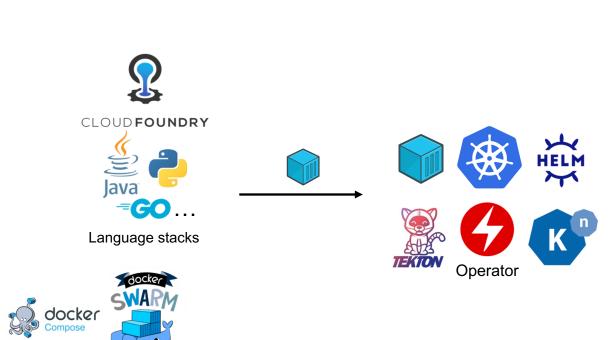
Optimize and Translate

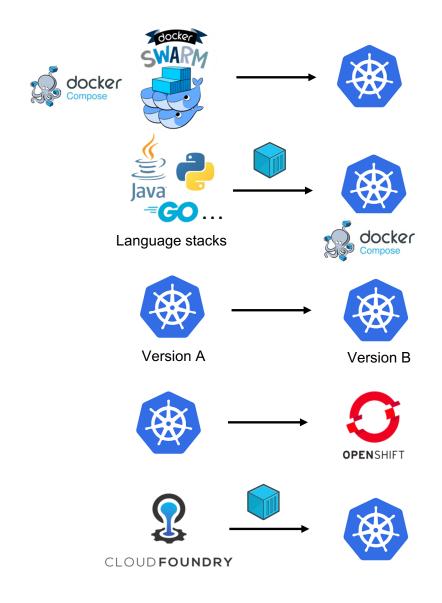
Step 2: \$ move2kube translate



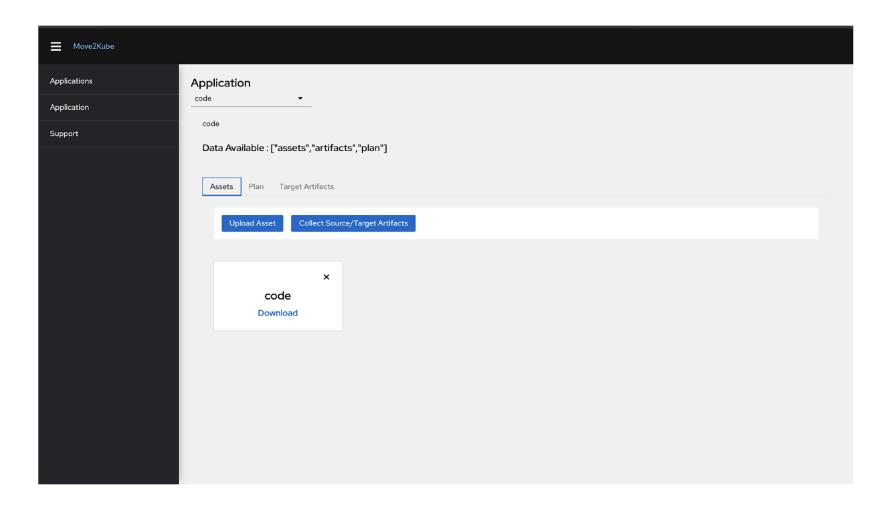
Move2Kube

Usecases





Web UI



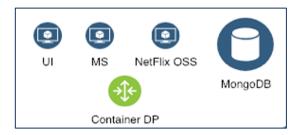
Clone https://github.com/konveyor/move2kube-ui and do `docker-compose up`

Requirements

rtifact available	Features supported
ISNITEST TILES	Containerization options from buildpacks, Deployment artifacts
ISPITACT THAC SOUTCA CODA	Containerization options based on buildpack/source code, Deployment artifacts
·	Containerization options based on buildpack/source code, Deployment artifacts, Metadata from runtime
CCACC TO FUNDING INCTANCA	Metadata from runtime, Containerization options based on buildpack, Deployment artifacts
ocker compose files	Deployment artifacts
INCKAR COMPOSA TIIAS II INCKAR IMANAS	Deployment artifacts, Ability to enhance images to run in secure environments like Openshift.
OURCE CORE WITH HO SOURCE METAGATA	Containerization options based on source code, Deployment artifacts
CCDCC IN IDIANICIDE	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 stance access to running instance acker compose files acker compose files, Docker images access to target cluster

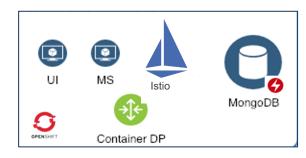
Command line support : Linux/Mac/Windows (WSL)

Move2Kube Case Study



Application and middleware services on Docker Swarm

Speed up modernization (Move2Kube)

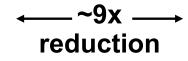


Application and middleware service on Red Hat Openshift

Tasks	Manual (est.)	Move2Kube
Discover relevant assets	3 days	3 hours
Direct artifact translations	14 days	1 day
Complex artifact translations	32 days	4 days
Exploit OCP features + best practices	3 days	3 hours
Customize for a deployment	4 days	30 mins
Rightsize initial config	5 days	1 day
	61 days	7 days

For ~100 container scenario.

Based on extrapolation from PoC experience on a limited subset of the migration process, we will further evolve this from actual delivery data



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

