# Accelerate your journey to Kubernetes with the Konveyor Community

A community of people passionate about helping others modernize and migrate their applications to the hybrid cloud by building tools and best practices on how to break down monoliths, adopt containers, and embrace Kubernetes.



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# Konveyor Forklift

June 2021





**Rehost** virtual machines to KubeVirt



Rehost apps between Kubernetes clusters



**Replatform**applications to
Kubernetes



**Refactor**applications for
Kubernetes



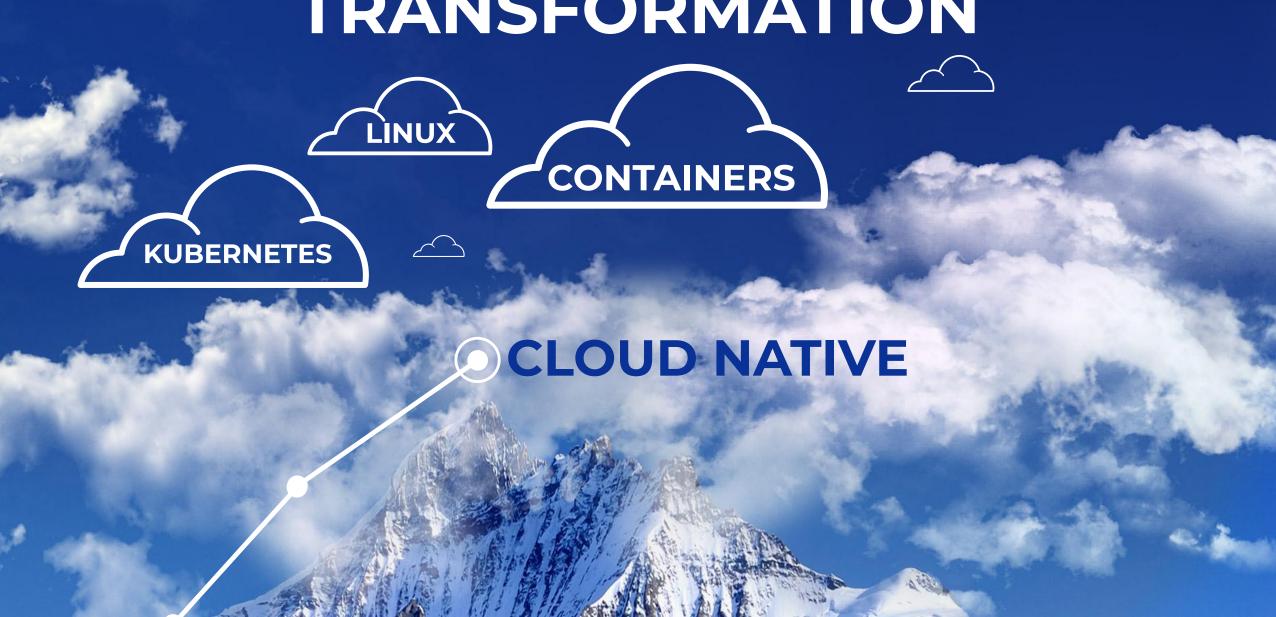
**Measure** software delivery performance

# Why moving VMs to KubeVirt + Kubernetes?





# CLOUD TRANSFORMATION





# Why Transform?

The Metrics









#### Measures of MARKET AGILITY

Time from code committed to deployed to production

Shorter is better. Enables faster feedback cycles and makes you better able to adjust to the marketplace

Proxy for batch size, how often does an app deploy to production

Indicator of batch size. Smaller batch size leads to more market agility

#### Measures of RELIABILITY

How long it takes systems to recover from failures in production

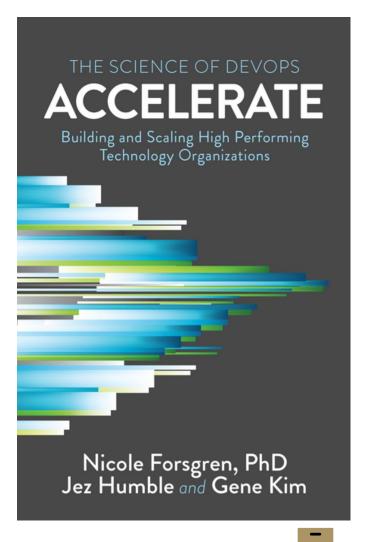
Critical to ensure that we aren't speeding up delivery at the expense of negative customer impacts

Percentage of deployments requiring rollback and/or fixes

stability

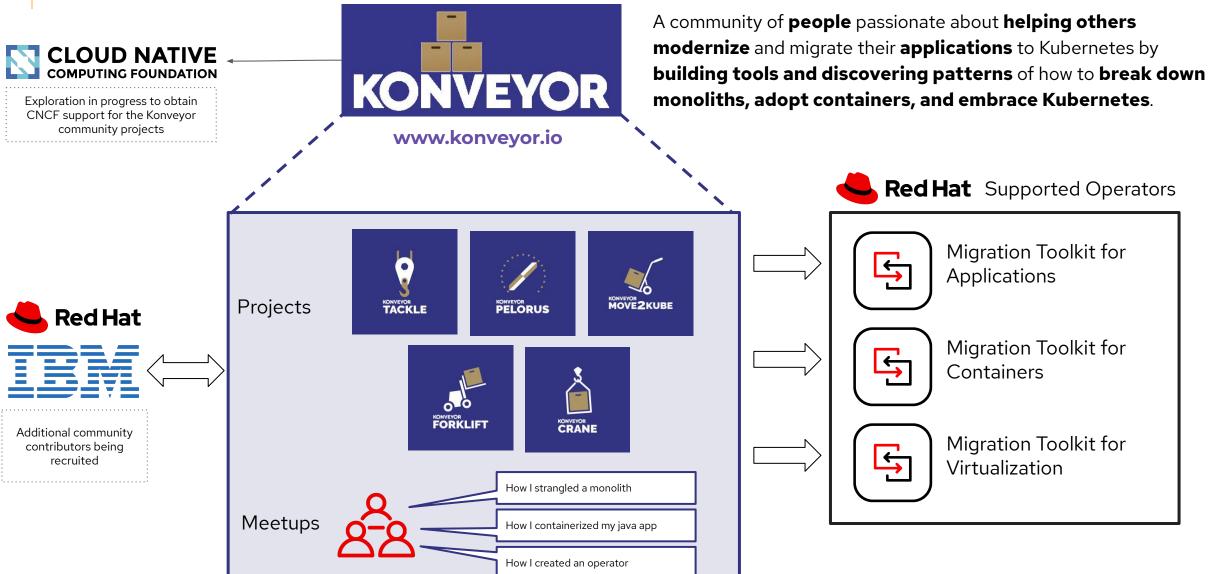
\*Secondary indicator of

https://github.com/konveyor/pelorus



WHAT

## Technical? Join the Konveyor Community





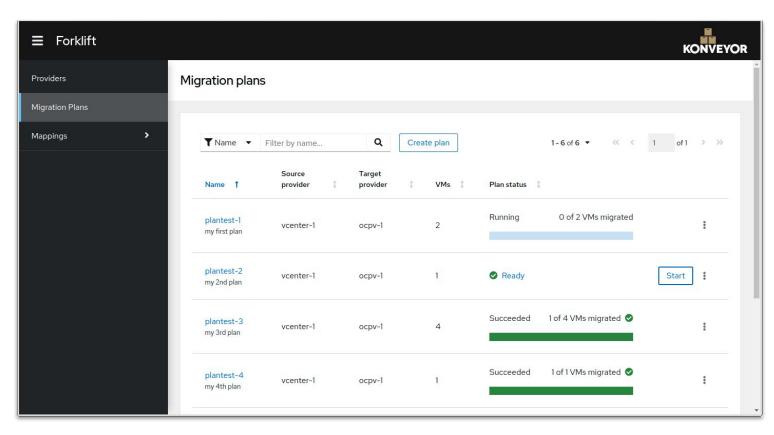
# Forklift 2.0 GA



# **Migration at Scale**

#### Of virtual machines to KubeVirt





#### **Mass Migration of VMs**

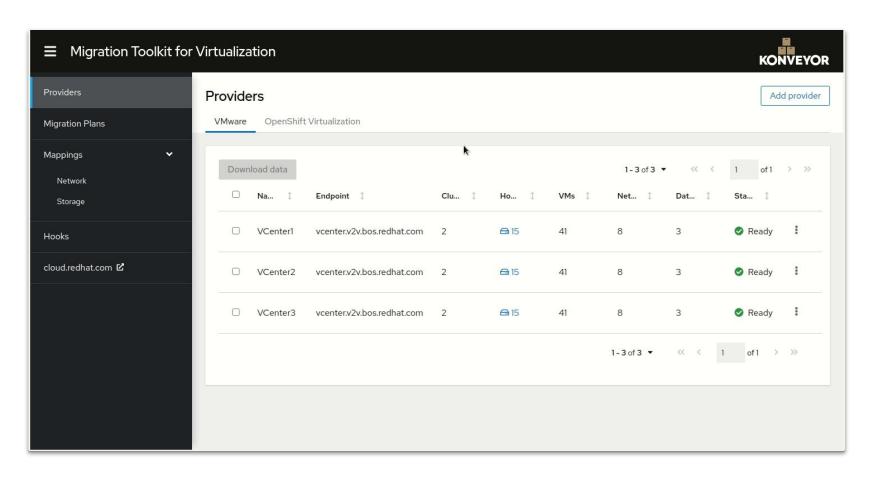
Migrate virtual machines at scale to OpenShift Virtualization in a few simple steps. Provide source and destination credentials, map infrastructure, and create migration plans



## **Providers**

#### Easy to configure source and target providers





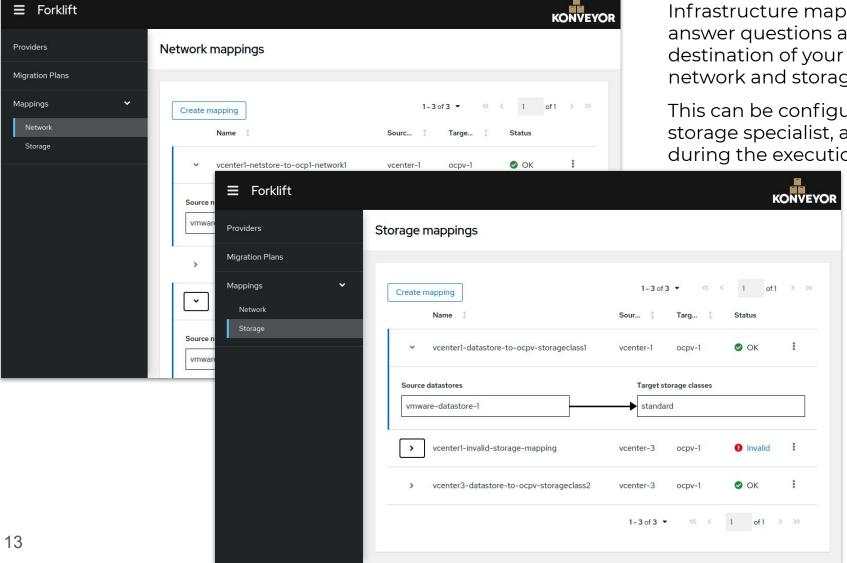
The providers section allows you to configure the credentials for your source and destination clusters.

Multiple source and destinations can be added, and your overall provider information can also optionally be uploaded to cloud.redhat.com for additional information about your overall environment, helping you better plan your migration at scale.



# **Infrastructure Mappings**





Infrastructure mapping allows you to answer questions about source and destination of your VMs from a network and storage point of view.

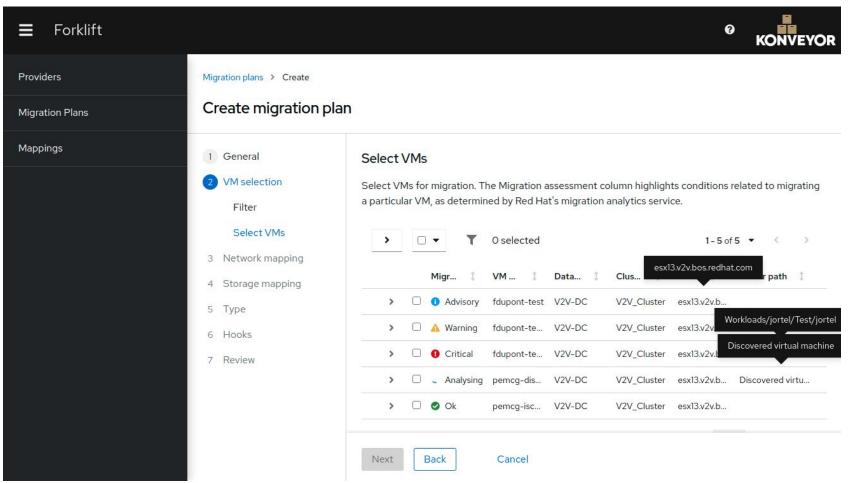
This can be configured once by your network and storage specialist, avoiding redundant questions during the execution of your migrations.



# **Migration Plans**

#### And pre-migration checks





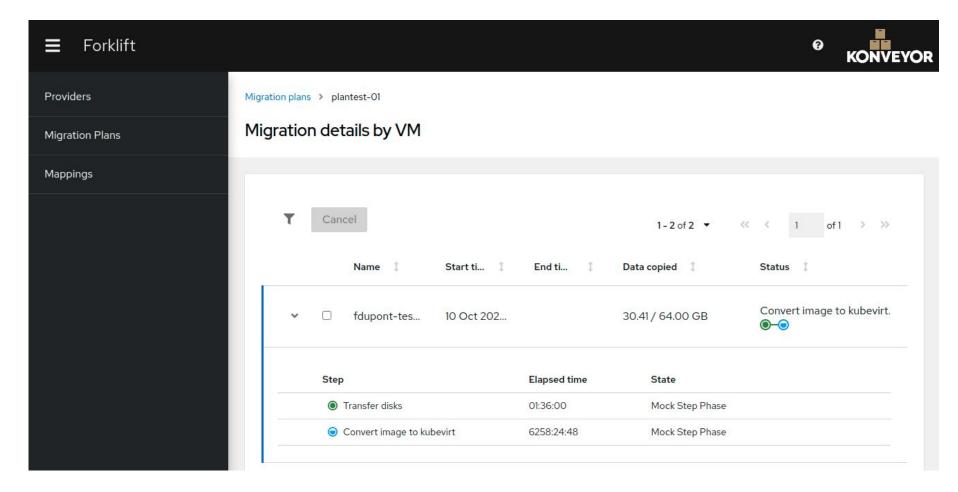
**Forklift** introduces, as tech preview, new on-premise migration analytic capabilities, helping you find potential migration issues before executing a migration.

When selecting your virtual machines, Forklift will automatically inform you of any known potential issue and provide information on how to solve this issue when possible.

Virtual machines can be filtered down by names, folders or other parameters to review all VMs related to a specific applications.



# **Migration Progress**

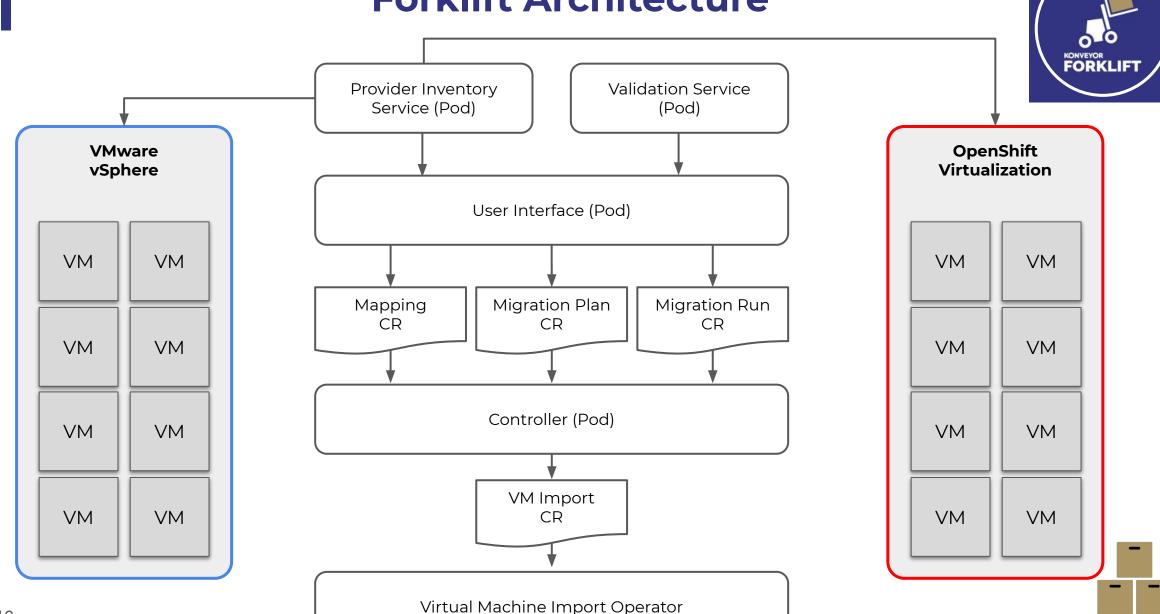




Launch your migration, sit back and relax. We will keep you informed on our progress during the migration.



## **Forklift Architecture**





## **VM** migration



#### • Forklift 2.0 Launched!

- Warm Migration from VMware vSphere
- Pre-migration checks (tech preview)

#### • Forklift 2.1

- Cold migration from RHV/oVirt
- Migration Hooks



### **VM** migration



#### • Forklift 2.2

- Warm migrations from RHV/oVirt
- Ansible Hooks Image Builder
- Pre-migration checks (GA)

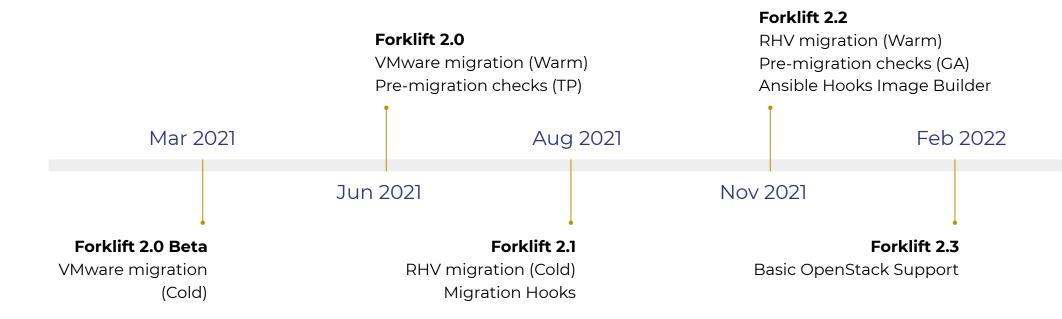
#### • Forklift 2.3

OpenStack Support (Basic)



#### **VM** migration







# Demo

https://red.ht/mtv-videos



## **Get Involved**

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- Get Meetup Invites + Tool Updates
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- Share
   Propose a meetup talk (<u>form</u>)
- Contribute
   Join the next quarterly project planning
   Invites sent to <u>Konveyor-community list</u>



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# Thank you!

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