

Azure DevOps + Kubernetes

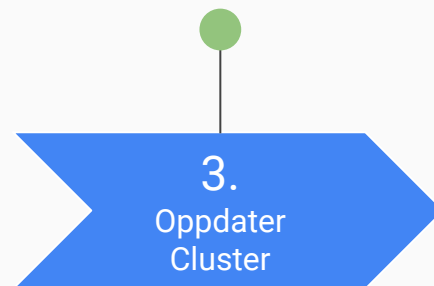
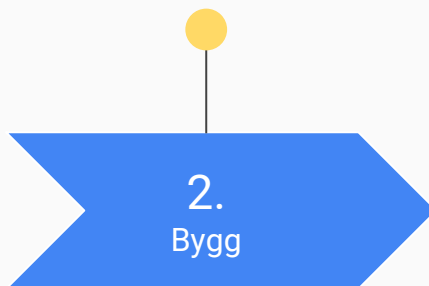
22. November 2018



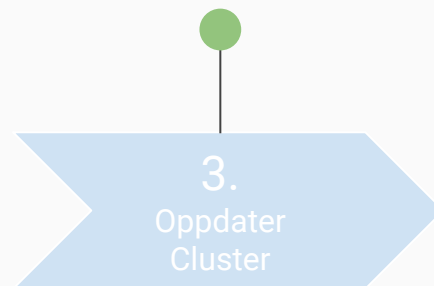
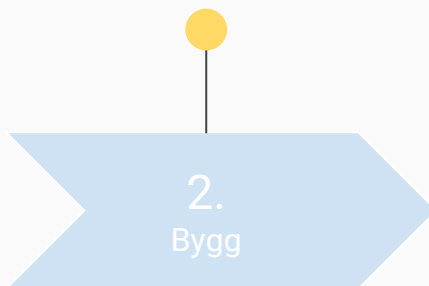
Azure DevOps

- Git-repo
- Work Items
- Build / Deploy

Hvordan deploye **Docker**-containere fra
Azure DevOps til **Kubernetes** i 3 steg



Sett opp autentisering
mot Docker-repo og
Kubernetes-cluster



Steg 1. Autentisering

Project Settings > Service connections

General

Overview

Teams

Security

Notifications

Service hooks

Dashboards

Boards

Project configuration

Team configuration

Pipelines

Service connections

Agent pools

Retention and parallel jobs

Release retention

Service connections XAML build services

+ New service connection

Filter connections...

infinitem-cluster

infinitem.azurecr.io

Service connection: infinitem.azurecr.io

Details Roles Request history

INFORMATION

Type: Dockerregistry

Created by Petter Karlsrud

Connecting to service using credentials

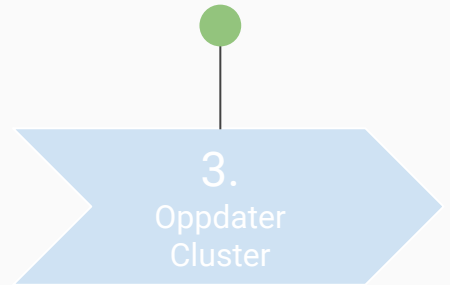
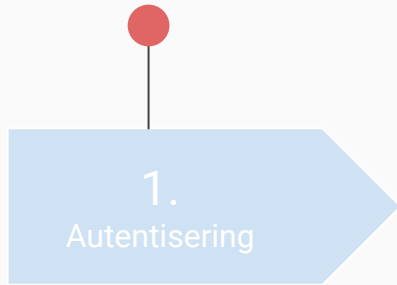
ACTIONS

List of actions that can be performed on this service:

[Update service connection](#)

[Disconnect](#)

Sett opp bygg av
Docker-bilde og opplastning
til Docker-Repo



Steg 2. Bygg

```
6 pool:
7   vmImage: 'Ubuntu 16.04'
8
9 variables:
10    repoName: 'infinitem.azurecr.io'
11    imageName: '$(repoName)/pas/customer-service:$(build.buildId)'
12
13 steps:
14   - script: |
15       docker build -f Dockerfile -t $(imageName) .
16       docker login -u $(dockerId) -p $(pswd) $(repoName)
17       docker push $(imageName)
18
```

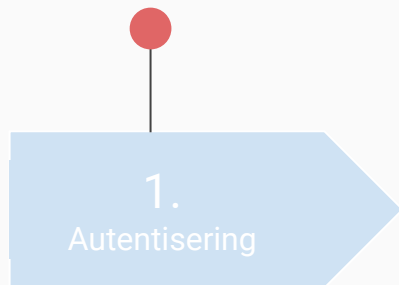
// URL til Docker-repo

// Navn på Docker-image

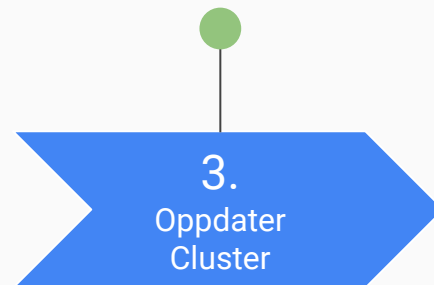
// Bygg løsningen

// Autentisering mot Docker-repo

// Opplasting av Docker-image




Sett opp slik at
deployment i
Kubernetes bruker
Docker-bildet vi bygde i
forrige steg



Steg 3. Oppdater Kubernetes

Deploy
Deployment process

Agent job
Run on agent

 **kubectl set**
Deploy to Kubernetes

Deploy to Kubernetes ⓘ

✕ Remove

Version 0.*

Display name *

kubectl set

Kubernetes service connection ⓘ | [Manage](#)

infinitem-cluster

↺

+ New

Namespace ⓘ

Commands ^

Command * ⓘ

set

☐ Use Configuration files ⓘ

Arguments ⓘ

image deployment/\$(Deployment) \$(Container)=\$(ContainerRegistry)/\$(ImageName):\$(Build.SourceVersion)

...

Secrets v

```
$ kubectl set image deployment/$(Deployment) (Container)=$(ContainerRegistry)/$(ImageName):$(Build.SourceVersion)
$
$ kubectl set image deployment/customer-service customer-service=infinitem.azurecr.io/infinitem-customer-service:34330dca4a0fea
```