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# **project-name Documentation**

*Release 0.1.0*

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This project defines the integration between various component repository on Kubernetes.



Helm is a tool for managing Kubernetes charts. Charts are packages of pre-configured Kubernetes resources.

All the charts are included in the folder “charts”. Every chart has the following structure:

```
Chart.yaml      # A YAML file containing information about the chart
values.yaml     # The default configuration values for this chart
chart/         # A directory containing any charts upon which this chart depends.
chart/templates/ # A directory of templates that, when combined with values,
                # will generate valid Kubernetes manifest files.
```

```
# Chart.yaml
apiVersion: v1
appVersion: "1.0"
description: A Helm chart for deploying the Tango-Base on Kubernetes
name: tango-base
version: 0.1.0
```

```
# example of values
tmcprototype:
  enabled: true
  image:
    registry: nexus.engageska-portugal.pt/tango-example
    image: tmcprototype
    tag: latest
    pullPolicy: Always
```

## 1.1 Update chart settings.

In some cases you may want to alter the settings applied in the chart. E.g To set the Elastic index lifetime management policy to keep logs for 2 days, update *values.yaml* to the following:

```
elastic:
  enabled: true
  image:
    registry: docker.elastic.co
    image: elasticsearch/elasticsearch
    tag: 7.4.2
    pullPolicy: IfNotPresent
  ilm:
    rollover:
      max_size: "1gb"
      max_age: "2d" # Update here
      delete:
        min_age: "1d"
```

More information available [here](#). Helm Glossare here <<https://helm.sh/docs/glossary/>>‘\_.



## CHAPTER 2

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### Testing the Pipeline

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Todo



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## Available resources

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The folder called “resources” is a collection of resources used for testing and for configuration.

### 3.1 Makefile targets

This project contains a Makefile which defines the following targets:

Makefile target	Description
vars	Display variables
k8s	Which kubernetes are we connected to
logs	POD logs for descriptor
namespace	create the kubernetes namespace
deploy	deploy the helm chart
show	show the helm chart
delete	delete the helm chart release
gangway	install gangway authentication for gitlab (kube-system namespace)
poddescribe	describe Pods executed from Helm chart
podlogs	show Helm chart POD logs
help	Show the help summary

### 3.2 Ansible

It is possible to setup a local SKAMPI environment using the ansible playbook available [here](#).

[Documentation Status](#)

### 3.2.1 RDMA Data Transport integration with SEP Pipeline

The following are a set of instructions of running the RDMA Data Transport integration with SEP Pipeline on Kubernetes, and has been tested on k8s v1.17.3 on Ubuntu 18.04.

## CHAPTER 4

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### Indices and tables

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- `genindex`
- `modindex`
- `search`