



This tutorial shows how to create a new Model for Tensorflow development.

First, go to the Models page






KuberLabCatalogHelp

 Leonard Sheiba




 KuberLab Demo

Models



Select Models

	r-studio (r-studio) RStudio	.demotest	⋮
	styles-set (styles-set) Style Tranfer demo	.demotest	⋮
	tf-study-1 (tf-study-1) Tensoflow template	.demotest	⋮
	zappos-set (zappos-set) Gan Image Similarity	.demotest	⋮
	1-test-ilja-mxnet (1-test-ilja-mxnet) MXNet Template	➔ Shared cluster: minikube	DISABLED ⋮


Projects


	demotest (demotest)	https://github.com/lsheiba/demo5
	LS Demo (ls-demo)	https://github.com/lsheiba/kl-demo
	mytest (mytest)	https://gitlab.kuberlab.io/kuberlab-demo/mytest









Charts


	<u>caffe2</u> (is mlapp) Caffe2	☆ 0	💬 0	📦 2003
	<u>tensorflow</u> (is mlapp) Tensorflow template	☆ 0	💬 0	📦 2003

Select Add New Model “+” button

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	my-first-model (my-first-model) Tensorflow template	_demotest ⋮
	r-studio (r-studio) RStudio	_demotest ⋮
	styles-set (styles-set) Style Tranfer demo	_demotest ⋮
	tf-study-1 (tf-study-1) Tensorflow template	_demotest ⋮
	zappos-set (zappos-set) Gan Image Similarity	_demotest ⋮
	1-test-ilja-mxnet (1-test-ilja-mxnet) MXNet Template	➔ Shared cluster: minikube DISABLED ⋮
	caffe2 (caffe2) Caffe2	_LS Demo DISABLED ⋮
	r-studio-delete (r-studio-delete) RStudio	_demotest DISABLED ⋮


Select ADD MODEL ➔ 

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Selecting Tensorflow template will start the installation wizard

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 [KuberLab Demo](#) / [Create new application](#)


Recommended




caffe2
Caffe2


Select Tensorflow Template







tensorflow
Tensorflow template







mxnet
MXNet Template





r-studio
RStudio

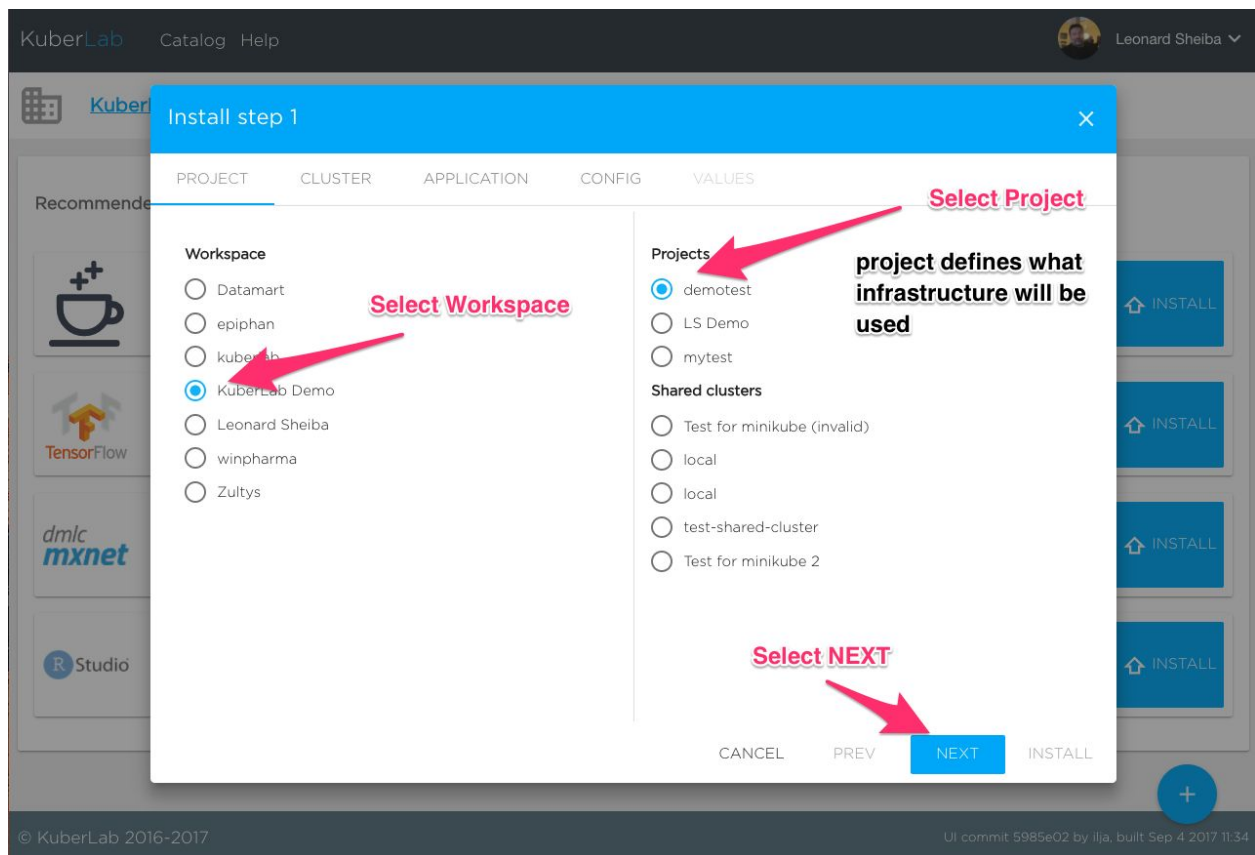




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Select your workspace and project for the Model



Select cluster for the Model

The screenshot shows the 'Install step 2' dialog in the KuberLab application. The dialog has a blue header with a close button (X) and a tabbed interface with 'PROJECT', 'CLUSTER', 'APPLICATION', 'CONFIG', and 'VALUES'. The 'CLUSTER' tab is active. It displays a table with cluster information:

Cluster name	Status
<input checked="" type="checkbox"/> minikube Provider: kubernetes - gpuhome (master ip: https://98.234.186.214:8443)	Running

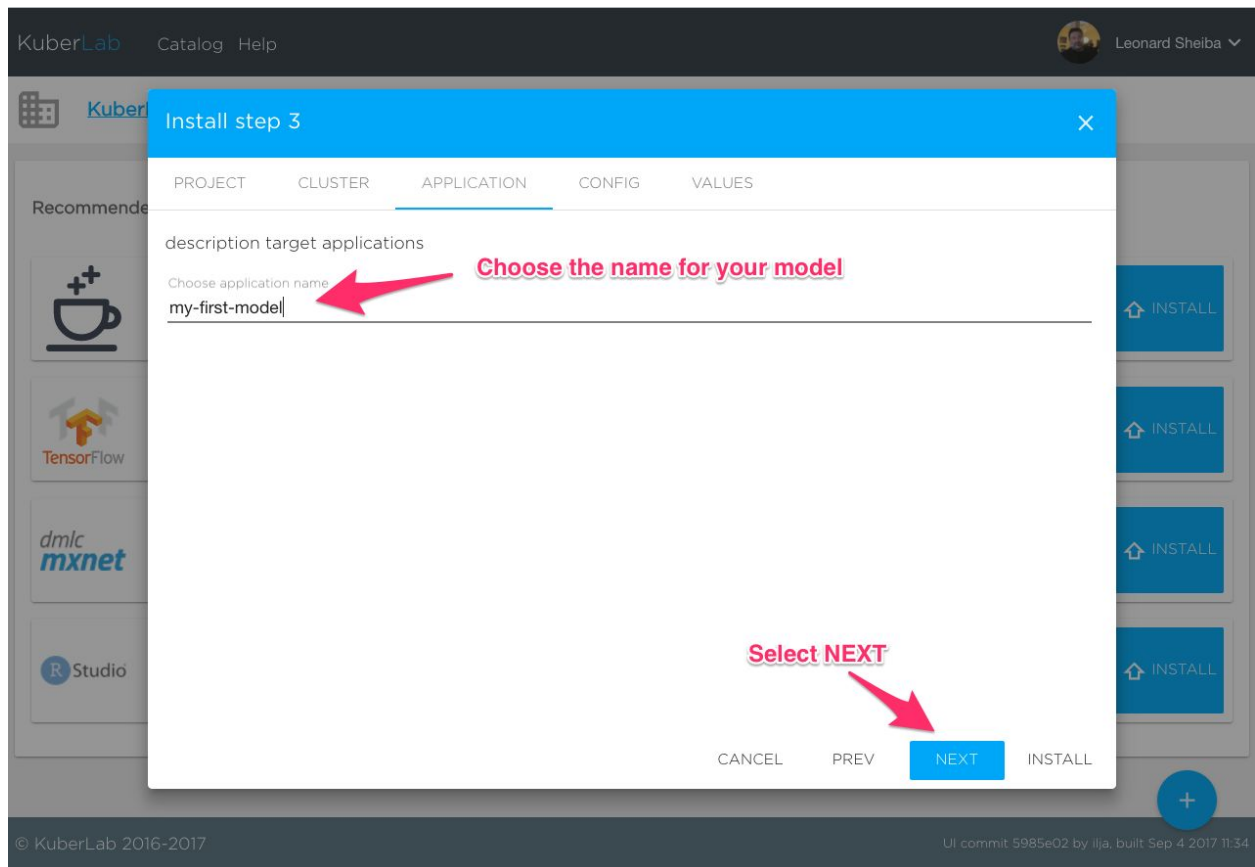
Two red arrows point to the 'minikube' entry and the 'NEXT' button. The first arrow is accompanied by the text: "Select cluster to use if there is more than one cluster in the project". The second arrow is accompanied by the text: "Select NEXT".

At the bottom of the dialog are four buttons: CANCEL, PREV, NEXT, and INSTALL. The 'NEXT' button is highlighted with a red arrow and the text "Select NEXT".

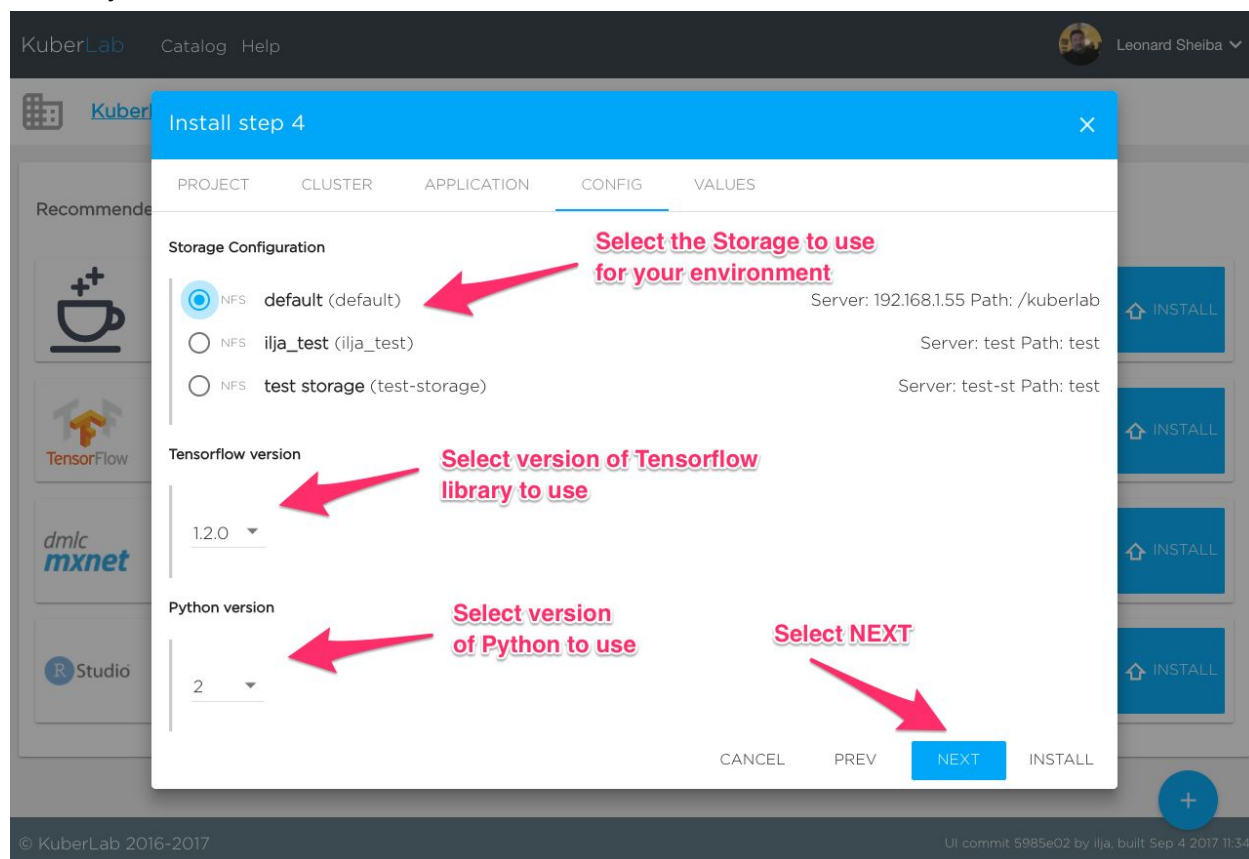
The background shows the KuberLab interface with a sidebar containing icons for JupyterLab, TensorFlow, dmlc mxnet, and R Studio. The top bar shows 'KuberLab Catalog Help' and a user profile for 'Leonard Sheiba'.

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Name your Model



Perform basic configuration: Select Storage to use, version of the Tensorflow library and version of the Python environment



On this page you can perform advanced configuration by editing YAML configuration file manually. In most of the cases you do not need to do that. And most of the exposed parameter can be configured from the Model environment.

After you click INSTALL software will build the complete environment for development, validation and deployment of Tensorflow based Model

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Install step 5

PROJECT CLUSTER APPLICATION CONFIG VALUES

```
4   name: Storage Configuration
5   kind: cluster_storage
6   src: 'https://github.com/kuberlab-catalog/tensorflow'
7   src_path: /tensorflow/src
8   data_path: data
9   tensorflow_version:
10  value: 1.2.0
11  wizard:
12    name: Tensorflow version
13    kind: select
14    options:
15      - 1.2.0
16      - latest
17  python_version:
18    value: '2'
19  wizard:
20    name: Python version
21    kind: select
22    options:
23      - '2'
24      - '3'
25  serving_port: 9000
26  tf_serving: false
27  packages:
28    - 'git=https://github.com/kuberlab/python-mlboardclient.git'
```

Advanced Configuration

Now we are ready to install the environment

Select INSTALL

CANCEL PREV NEXT **INSTALL**

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New Model “my-first-model” is created based on the generic Tensorflow Model Template. The new model environment contains all the necessary tools for development, training, verification and deployment.

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KuberLab Demo / Models / my-first-model

Project: demotest/ master/ minikube

Tensorflow template

MODELS

SOURCES

JOBS

METRICS

LOGS

INSTALL

JUPYTER

TENSORBOARD

Tasks resources list

prepare-data

upload

standalone

worker

parallel

worker

ps

export

worker

workflow

tasks

Task prepare-data

Resource upload

Execution directory

\$DATA_DIR

Timeout minutes

Execution command

echo "Uploading Data";echo "Done!!!"

Node allocator

Execution Arguments

Resources

CPU (m)

CPU Limit (m)

Memory (Mi,Gi)

Memory Limit (Mi,Gi)

GPU

Replicas

1

Environment Arguments

name

value

Advanced

SAVE

SAVE AND EXECUTE