

Kubeflow Pipelines Cheatsheet

Setup and Connection

pip install kfp

Install Kubeflow Pipelines SDK

kubect! port-forward -n kubeflow svc/ml-pipeline-ui 8080:80

Port forwarding to access Kubeflow Pipelines UI

kfp connect --endpoint http://localhost:8080

Connect to a local Kubeflow Pipelines instance

kfp connect --endpoint https://your-kubeflow-domain.com

Connect to a remote Kubeflow Pipelines instance

Pipeline Management

kfp pipeline list

List all pipelines

kfp pipeline get [PIPELINE_ID]

Get pipeline details

kfp pipeline upload [PIPELINE_PACKAGE_PATH]

Upload a pipeline package

kfp pipeline delete [PIPELINE_ID]

Delete a pipeline

Experiment Management

kfp experiment list

List all experiments

kfp experiment create [EXPERIMENT_NAME]

Create a new experiment

kfp experiment get [EXPERIMENT_ID]

Get experiment details

kfp experiment delete [EXPERIMENT_ID]

Delete an experiment

Run Management

kfp run list

List all runs

kfp run get [RUN_ID]

Get run details

kfp run create --experiment-name [EXPERIMENT_NAME] --pipeline-id [PIPELINE_ID]

Create a run

kfp run delete [RUN_ID]

Delete a run

Recurring Run Management

kfp recurring_run list

List all recurring runs

kfp recurring_run get [RECURRING_RUN_ID]

Get recurring run details

kfp recurring_run create --experiment-name [EXPERIMENT_NAME] --pipeline-id [PIPELINE_ID] --cron-expression [CRON]

Create a recurring run

kfp recurring_run delete [RECURRING_RUN_ID]

Delete a recurring run

Python SDK Examples

client = kfp.Client()

Initialize the KFP client

client.list_pipelines()

List pipelines using Python SDK

client.get_experiment(experiment_name='default')

Get experiment by name

client.run_pipeline(experiment_id, pipeline_name, params)

Run a pipeline with parameters