Tekton CLI

Tekton pipelines CLI

START HERE

`tkn pipeline list`
List pipelines

`tkn pr describe --last`
Status and tasks

`tkn pipeline start <name> --showlog`
Run and follow

`tkn task start <name> -p k=v`
Run one task

`tkn pipelinerun list`
Recent runs

`tkn pr cancel <run>`
Stop a run

`tkn pr logs -f --last`
Follow latest run

`tkn pr delete --keep 5`
Prune old runs

CONCEPTS

tkn talks to whichever cluster and namespace kubectl currently points at. Pass -n <ns> or -c <ctx> to override, and check them before deleting.

Pipeline ordered tasks
↓ start
PipelineRun one execution
↓ creates
TaskRun per task
↓ runs
Pod one step per container

Definitions are reusable; each start creates a run

Aliases: pr = pipelinerun, tr = taskrun, p = pipeline, t = task. Commands take a run name, or --last for the newest.

PIPELINES

`tkn pipeline list`
List pipelines

`tkn pipeline describe <name>`
Params, workspaces, tasks, recent runs

`tkn pipeline start <name>`
Start a run (prompts for params)

`tkn pipeline start <name> -p <key>=<val>`
Pass a parameter

Repeat -p per parameter; use key=v1,v2 for array params.

`tkn pipeline start <name> --showlog`
Start and stream logs

`tkn pipeline start <name> --use-param-defaults`
Skip param prompts

`tkn pipeline start <name> -L`
Rerun with last run's values

`tkn pipeline start -f <file>`
Start from a local or remote file

`tkn pipeline start <name> --dry-run -o yaml`
Preview the PipelineRun

`tkn pipeline start <name> -s <sa>`
Use a service account

`tkn pipeline start <name> --pipeline-timeout <dur>`
Set run timeout

`tkn pipeline start <name> --prefix-name <p>`
Name the run with a prefix

PIPELINES (cont.)

`tkn pipeline start <name> -E --showlog`
Exit code follows run result

Useful in CI scripts: 0 success, 1 error, 2 unknown.

`tkn pipeline logs <name>`
Logs of a pipeline's run

`tkn pipeline export <name>`
Print as YAML

`tkn pipeline delete <name>`
Delete a pipeline

`tkn pipeline delete <name> --prs`
Also delete its runs

WORKSPACES

`-w name=<ws>,emptyDir=`
Scratch dir for the run

`-w name=<ws>,claimName=<pvc>`
Bind an existing PVC

`-w name=<ws>,secret=<secret>`
Mount a secret

`-w name=<ws>,config=<cm>`
Mount a config map

-w works on pipeline start and task start. Without it tkn prompts for each workspace the definition declares.

PIPELINERUNS

`tkn pr list`
List runs

`tkn pr list -A`
Runs in all namespaces

`tkn pr list --limit <n>`
Cap the number shown

`tkn pr list --label <k>=<v>`
Filter by label

`tkn pr describe <run>`
Status, params, task runs

`tkn pr describe --last`
Describe newest run

`tkn pr logs <run>`
Show run logs

`tkn pr logs <run> -f`
Stream logs live

`tkn pr logs --last`
Logs of newest run

`tkn pr logs <run> --log-failed`
Only failed tasks and steps

`tkn pr logs <run> -t <task>`
Only one task's logs

PIPELINERUNS (cont.)

`tkn pr logs <run> --timestamps`
Prefix lines with times

`tkn pr logs <run> -a`
Include init steps

`tkn pr cancel <run>`
Cancel a running run

`tkn pr delete <run>...`
Delete runs by name

`tkn pr delete --keep <n>`
Keep the n newest

`tkn pr delete --all`
Delete all runs in namespace

`tkn pr delete -p <pipeline>`
Delete a pipeline's runs

`tkn pr delete --all --keep-since <min>`
Spare recent runs

`tkn pr delete --all -f`
Skip confirmation prompt

`tkn pr export <run>`
Print run as YAML

TASKS

`tkn task list`
List tasks

`tkn task describe <name>`
Params, steps, recent runs

`tkn task start <name>`
Start a task run

`tkn task start <name> -p <key>=<val> --showlog`
Pass params and follow

`tkn task start <name> -L`
Rerun with last values

`tkn task start -f <file>`
Start from a file

`tkn task start <name> --dry-run`
Preview the TaskRun

`tkn task start <name> --timeout <dur>`
Set run timeout

`tkn task logs <name>`
Logs of a task's run

`tkn task delete <name>`
Delete a task

`tkn task delete <name> --trs`
Also delete its runs

TASKRUNS

`tkn tr list`
List task runs

`tkn tr describe <run>`
Steps, status, results

TASKRUNS (cont.)

`tkn tr logs <run> -f`
Stream logs live

`tkn tr logs <run> -s <step>`
One step only

`tkn tr logs --last`
Logs of newest run

`tkn tr cancel <run>`
Cancel a run

`tkn tr delete --keep <n>`
Keep the n newest

OUTPUT & SCRIPTING

`tkn pr list -o name`
Names only

`tkn pr list -o json`
Machine-readable output

`tkn pr list --no-headers`
Drop the header row

`tkn pr list -o jsonpath='{...}'`
Extract fields

`tkn pr logs <run> -F`
Pick the run with fzf

`tkn <cmd> -C`
Disable colour

`tkn completion bash`
Print shell completion

`tkn version`
Client version

HUB & TRIGGERS

`tkn hub search <term>`
Search the Tekton Hub

The tkn hub subcommands are deprecated; check the docs for your version.

`tkn hub install task <name>`
Install a task from the hub

RECIPES

Run and gate CI on the result

```
tkn pipeline start build -p rev=main \
  -w name=src,claimName=build-pvc \
  --showlog -E
# exit code 0 only if the run succeeded
```

Rerun the last run and follow it

```
tkn pr list --limit 3
tkn pipeline start build -L --showlog
```

Debug a failed run

```
tkn pr describe --last
tkn pr logs --last --log-failed
```

Prune old runs, keep the latest 5

```
tkn pr delete --keep 5 -n <ns>
tkn tr delete --keep 5 -n <ns>
```