

CheatSheet: Concourse

VMWARE

- PDF Link: [cheatsheet-concourse-A4.pdf](#), Category: tools
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-concourse-A4>
- Related posts: Bosh CheatSheet, PKS CheatSheet

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1.1 Concourse Advanced

Name	Summary
github-release resource cannot find old tag	<code>fly -t \$target cr -r \$pipeline-name/\$resource-name -f tag:\$tag</code> Link
fly set-pipeline run into "error: forbidden"	Need to logout from both <code>fly client</code> (<code>fly logout --all</code>) and Concourse GUI. Link:
List team details for all targets	<code>fly -t \$target teams -d, ~/.flyrc</code>
Concourse examples	github: pcf-pipelines

1.2 Concourse Containers

Name	Summary
Login to container	<code>fly -t \$target hijack -u \$job_url</code>
Run command without sudden exit	<code>nohup SOMECOMMAND & tail -f nohup.out</code>

1.3 Concourse Concepts

Name	Summary
Links	Link: Concourse Concepts, Link: concoursetutorial.com
Pipelines	
Jobs	
Tasks	
Targets	Alias of Concourse endpoints
fly	Pipelines are configured entirely via the fly. There is no GUI. Link: fly
Behaviors	
Input resource	
Output resource	
Teams	
bbl (bosh-bootloader)	GitHub: bosh-bootloader

<https://raw.githubusercontent.com/dennyzhang/cheatsheet.dennyzhang.com/master/cheatsheet-concourse-A4/concourse-sample.png>

1.4 Concourse Authentication & Authorization

Name	Summary
Fly login to the default main team	<code>fly -t \$target login -n main -c \$concourse_url</code>
Fly login to a different team	<code>fly -t \$target login -n \$team_name -c \$concourse_url</code>
List all teams	<code>fly -t \$target teams, fly -t \$target teams -d</code>
Fly logout all targets	<code>fly logout --all</code>
Create a team	<code>fly -t \$target set-team -n \$team_name --allow-all-users</code>
Destroy a team	<code>fly -t \$target destroy-team --team-name \$team_name</code>
Grant Github team access	<code>fly -t \$target set-team -n \$team_name --github-org \$my_org</code>
Login to a team	<code>fly -t \$target set-team -n \$team_name</code>
Fly conf file	<code>~/.flyrc</code>
Reference	After login to the main team, you can update other teams. Link: Concourse Team

1.5 Concourse Pipeline

Name	Summary
List all authenticated end points	<code>fly targets</code> Link: fly targets
fly login	<code>fly -t \$target login -c \$concourse_url -n \$team_name</code>
Get pipeline definition	<code>fly -t \$target get-pipeline -p \$job-name > job.yaml</code> Link: fly-getpipeline
Update pipeline	<code>fly -t \$target set-pipeline -p \$pipeline_name --config pipeline.yml</code>
Destroy pipeline	<code>fly -t \$target destroy-pipeline -p \$pipeline_name</code>
Format pipeline	<code>fly format-pipeline -c pipeline.yml</code>
Validate pipeline	<code>fly validate-pipeline -c pipeline.yml</code>

1.6 Concourse GUI/UI

Name	Summary
URL for pipelines for a given team	Search by team, then generate a url
Get fly version	<code>fly --version</code>

1.7 Concourse Resources

Name	Summary
Docker image: docker-image-resource	https://github.com/concourse/docker-image-resource
Google bucket: gcs-resource	https://github.com/frodenas/gcs-resource
git-resource	https://github.com/concourse/git-resource , example: example-git.yml
github-release	https://github.com/concourse/github-release-resource

1.8 fly Online Usage

```
bash-3.2$ fly --help
error: Usage:
  fly [OPTIONS] <command>
```

Application Options:

```
-t, --target=      Concourse target name
-v, --version      Print the version of Fly and exit
--verbose          Print API requests and responses
--print-table-headers Print table headers even for redirected output
```

Help Options:

```
-h, --help          Show this help message
```

Available commands:

```
abort-build      Abort a build (aliases: ab)
builds           List builds data (aliases: bs)
check-resource    Check a resource (aliases: cr)
checklist        Print a Checkfile of the given pipeline (aliases: cl)
containers        Print the active containers (aliases: cs)
destroy-pipeline  Destroy a pipeline (aliases: dp)
destroy-team      Destroy a team and delete all of its data (aliases: dt)
execute           Execute a one-off build using local bits (aliases: e)
expose-pipeline  Make a pipeline publicly viewable (aliases: ep)
format-pipeline  Format a pipeline config (aliases: fp)
get-pipeline      Get a pipeline's current configuration (aliases: gp)
help             Print this help message
hide-pipeline     Hide a pipeline from the public (aliases: hp)
hijack           Execute a command in a container (aliases: intercept, i)
jobs             List the jobs in the pipelines (aliases: js)
login            Authenticate with the target (aliases: l)
logout           Release authentication with the target (aliases: o)
order-pipelines  Orders pipelines (aliases: op)
pause-job        Pause a job (aliases: pj)
```

pause-pipeline	Pause a pipeline (aliases: pp)
pause-resource	Pause a resource (aliases: pr)
pipelines	List the configured pipelines (aliases: ps)
prune-worker	Prune a stalled, landing, landed, or retiring worker (aliases: pw)
rename-pipeline	Rename a pipeline (aliases: rp)
rename-team	Rename a team (aliases: rt)
set-pipeline	Create or update a pipeline's configuration (aliases: sp)
set-team	Create or modify a team to have the given credentials (aliases: st)
status	Login status
sync	Download and replace the current fly from the target (aliases: s)
targets	List saved targets (aliases: ts)
teams	List the configured teams (aliases: t)
trigger-job	Start a job in a pipeline (aliases: tj)
unpause-job	Unpause a job (aliases: uj)
unpause-pipeline	Un-pause a pipeline (aliases: up)
unpause-resource	Unpause a resource (aliases: ur)
validate-pipeline	Validate a pipeline config (aliases: vp)
volumes	List the active volumes (aliases: vs)
watch	Stream a build's output (aliases: w)
workers	List the registered workers (aliases: ws)

1.9 More Resources

<http://www.mikeball.info/blog/concourse-git-resource/>

<https://concoursetutorial.com/>

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