

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, #denny-cheatsheets

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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> |
| Hijack to container of a successful run | You can't. By design when task has passed, the container will be deleted |
| 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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