# 1 CheatSheet: Concourse

**VMWARE** 

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• PDF Link: cheatsheet-concourse-A4.pdf, Category: vmware

• Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-concourse-A4

ullet 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	fly -t \$target cr -r \$pipeline-name/\$resource-name -f tag:\$tag
fly set-pipeline run into "error: forbidden"	Need to logout from both fly client (fly logoutall) and Concourse GU
List team details for all targets	fly -t \$target teams -d, ~/.flyrc
Hijack to containers with a successful run	You can't. By design when task has passed, the container will be deleted
Split one pipeline yaml into small <b>reusable</b> pieces	Not supported. Link: GitHub. For now, we need to workaround it.
Reference	concourse-tutorial, concourse-pipeline-samples

## 1.2 Concourse Resources & Examples

Name	Summary
Hello world pipeline	example: helloworld.yml
Pass output to input across different tasks	example: tasks-output-input.yml
Trigger pipeline test every 5 minutes	example: run-test-regularly.yml
git-resource	example: example-git.yml
concourse-curl-resource: http download link	example: url-download.yml
github-release	
docker-image-resource: docker image	
gcs-resource: google bucket	
file-downloader-resource	enable downloading pivotal product files and stemcells
PCF pipelines examples	GitHub: pcf-pipelines

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

#### 1.3 Concourse Containers

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

#### 1.4 Concourse Concepts

Name	Summary
Links	Link: Concourse Concepts, Link: concoursetutorial.com
Pipelines	
Jobs	
Tasks	
fly	Pipelines are configured entirely via the fly. There is no GUI. Link: fly
Behaviors	
Step: tags	Use tag to match workers
Resource	Allow you to define inputs and outputs to jobs in a pipeline
Targets	Alias of Concourse endpoints
Teams	
bbl (bosh-bootloader)	GitHub: bosh-bootloader

## 1.5 Concourse Authentication & Authorization

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

## 1.6 Concourse Pipeline

Name	Summary
List all authenticated end points	fly targets Link: fly targets
fly login	fly -t \$target login -c \$concourse_url -n \$team_name
Get pipeline definition	fly -t \$target get-pipeline -p \$job-name > job.yaml Link: fly-getpipeline
Update pipeline	fly -t \$target set-pipeline -p \$pipeline_name -c pipeline.yml -l credentials.ym
Update pipeline	fly -t \$target set-pipeline -p \$pipeline_name -c pipeline.yml -v env1=var1
Destroy pipeline	fly -t \$target destroy-pipeline -p \$pipeline_name
Format pipeline	fly format-pipeline -c pipeline.yml
Validate pipeline	fly validate-pipeline -c pipeline.yml

### 1.7 Concourse GUI/UI

Name	Summary
URL for pipelines for a given team	Search by team, then generate a url
Get fly version	flyversion

#### 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)

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```
get-pipeline
                     Get a pipeline's current configuration (aliases: gp)
  help
                     Print this help message
                     Hide a pipeline from the public (aliases: hp)
  hide-pipeline
  hijack
                     Execute a command in a container (aliases: intercept, i)
  jobs
                     List the jobs in the pipelines (aliases: js)
                     Authenticate with the target (aliases: 1)
  login
                     Release authentication with the target (aliases: o)
  logout
  order-pipelines
                     Orders pipelines (aliases: op)
  pause-job
                     Pause a job (aliases: pj)
 pause-pipeline
                     Pause a pipeline (aliases: pp)
                    Pause a resource (aliases: pr)
  pause-resource
                    List the configured pipelines (aliases: ps)
  pipelines
 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)
                    Create or update a pipeline's configuration (aliases: sp)
  set-pipeline
                     Create or modify a team to have the given credentials (aliases: st)
  set-team
  status
                    Login status
                    Download and replace the current fly from the target (aliases: s)
  sync
                    List saved targets (aliases: ts)
  targets
  teams
                     List the configured teams (aliases: t)
                     Start a job in a pipeline (aliases: tj)
  trigger-job
  unpause-job
                     Unpause a job (aliases: uj)
  unpause-pipeline
                     Un-pause a pipeline (aliases: up)
  unpause-resource
                     Unpause a resource (aliases: ur)
                    Validate a pipeline config (aliases: vp)
  validate-pipeline
  volumes
                     List the active volumes (aliases: vs)
                     Stream a build's output (aliases: w)
  watch
  workers
                     List the registered workers (aliases: ws)
     fly set-pipeline Online Usage
> fly set-pipeline --help
error: Usage:
  fly [OPTIONS] set-pipeline [set-pipeline-OPTIONS]
Application Options:
                                    Concourse target name
  -t, --target=
  -v, --version
                                    Print the version of Fly and exit
     --verbose
                                    Print API requests and responses
                                    Print table headers even for redirected output
     --print-table-headers
Help Options:
  -h, --help
                                    Show this help message
[set-pipeline command options]
     -n, --non-interactive
                                    Skips interactions, uses default values
          --no-color
                                    Disable color output
          --check-creds
                                    Validate credential variables against credential manager
```

# 1.10 More Resources

-p, --pipeline=

-v, --var=[NAME=STRING]

-1, --load-vars-from=

-y, --yaml-var=[NAME=YAML]

-c, --config=

http://www.mikeball.info/blog/concourse-git-resource/ https://concoursetutorial.com/

Pipeline to configure

Pipeline configuration file

Specify a string value to set for a variable in the pipeline

Variable flag that can be used for filling in template values in configur

Specify a YAML value to set for a variable in the pipeline

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