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

• Related posts: Bosh CheatSheet, PKS CheatSheet, #denny-cheatsheets

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1.1 Concourse Advanced

Name	Summary
fly set-pipeline run into "error: forbidden"	Need to logout from both fly elient (fly logoutall) and Concourse GU
github-release resource cannot find old tag	fly -t \$target cr -r \$pipeline-name/\$resource-name -f tag:\$tag I
List team details for all targets	fly -t \$target teams -d, ~/.flyrc
Concourse UI runs into a blank page	If pipeline has recursive dependencies, Concourse UI may have issue to run
Split one pipeline yaml into small reusable pieces	Not supported. An uncomfortable workaround: generating yaml with other
Add a readonly member to one team	Not supported. Concourse only support authentication control, but not aut
Hijack to containers with a successful run	Not supported. By design when task has passed, the container will be delete
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
fly	Pipelines are configured entirely via the fly. There is no GUI.
Teams	
Targets	Alias of Concourse endpoints
Pipelines	
Jobs	
Tasks	
Resource	Allow you to define inputs and outputs to jobs in a pipeline
Behaviors	
Step: tags	Use tag to match workers
bbl (bosh-bootloader)	GitHub: bosh-bootloader
Reference	Link: Concourse Concepts, Link: concoursetutorial.com

1.5 Concourse Pipeline

Name	Summary
List all authenticated end points	fly targets Link: fly targets
Get fly version	flyversion
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

1.6 Concourse Security

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

```
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)
                    List builds data (aliases: bs)
  builds
  check-resource
                    Check a resource (aliases: cr)
  checklist
                    Print a Checkfile of the given pipeline (aliases: cl)
                    Print the active containers (aliases: cs)
  containers
  destroy-pipeline
                    Destroy a pipeline (aliases: dp)
  destroy-team
                     Destroy a team and delete all of its data (aliases: dt)
                     Execute a one-off build using local bits (aliases: e)
  execute
                     Make a pipeline publicly viewable (aliases: ep)
  expose-pipeline
                     Format a pipeline config (aliases: fp)
  format-pipeline
                     Get a pipeline's current configuration (aliases: gp)
  get-pipeline
  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)
```

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login logout Authenticate with the target (aliases: 1)

Release authentication with the target (aliases: o)

```
Orders pipelines (aliases: op)
  order-pipelines
  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 a pipeline (aliases: rp)
  rename-pipeline
  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
                     List the configured teams (aliases: t)
  teams
                     Start a job in a pipeline (aliases: tj)
  trigger-job
                     Unpause a job (aliases: uj)
  unpause-job
                    Un-pause a pipeline (aliases: up)
  unpause-pipeline
                     Unpause a resource (aliases: ur)
  unpause-resource
  validate-pipeline
                    Validate a pipeline config (aliases: vp)
  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:
 -t, --target=
                                    Concourse target name
  -v, --version
                                    Print the version of Fly and exit
                                    Print API requests and responses
     --verbose
     --print-table-headers
                                    Print table headers even for redirected output
Help Options:
  -h, --help
                                    Show this help message
[set-pipeline command options]
     -n, --non-interactive
                                    Skips interactions, uses default values
                                    Disable color output
          --no-color
          --check-creds
                                    Validate credential variables against credential manager
                                    Pipeline to configure
     -p, --pipeline=
     -c, --config=
                                    Pipeline configuration file
                                    Specify a string value to set for a variable in the pipeline
     -v, --var=[NAME=STRING]
     -y, --yaml-var=[NAME=YAML]
                                    Specify a YAML value to set for a variable in the pipeline
     -1, --load-vars-from=
                                    Variable flag that can be used for filling in template values in configur
```

1.9 More Resources

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