1 CheatSheet: Concourse

VMware

Updated: February 9, 2019

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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 Concepts

Name	Summary
fly	Pipelines are configured entirely via fly CLI
Teams	Every pipeline and one-off build belongs to a team.
Targets	Alias of Concourse endpoints
Pipelines	A pipeline is the result of configuring Jobs and Resources together.
$_{ m Jobs}$	Jobs determine the actions of your pipeline,
Resource	Allow you to define inputs and outputs to jobs in a pipeline
Tasks	The smallest configurable unit in a Concourse pipeline is a single task.
Step: tags	Use tag to match workers
bbl (bosh-bootloader)	Command line utility for standing up a BOSH director on any IAAS
Reference	Link: Concourse Concepts, Link: concoursetutorial.com

1.2 Concourse Resources & Examples

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

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
Hijack to containers with a successful run	By design when task has passed, the container will be deleted

1.4 Concourse Pipeline

Name	Summary
List all authenticated end points	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
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

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

1.5 Concourse Resource

Name	Summary
github-release resource get the old tag	fly -t \$target check-resource -r \$pipeline-name/\$resource-name -f tag
github release use a specific tag	github-release-specific-tag.md
bosh-io-stemcell resource get the old version	fly -t \$target check-resource -r \$pipeline-name/ubuntu-xenial-stemcel

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
Install ansible vault in mac	brew install ansible
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

1.7 Concourse Workers

Name	Summary
List all concourse workers	fly -t \$target workers
List all concourse containers	fly -t \$target containers

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

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

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```
Help Options:
  -h, --help
Available commands:
                     Abort a build (aliases: ab)
  abort-build
  builds
                     List builds data (aliases: bs)
  check-resource
                     Check a resource (aliases: cr)
                     Print a Checkfile of the given pipeline (aliases: cl)
  checklist
                     Print the active containers (aliases: cs)
  containers
                     Destroy a pipeline (aliases: dp)
  destroy-pipeline
  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
                     Print this help message
  help
                     Hide a pipeline from the public (aliases: hp)
  hide-pipeline
                     Execute a command in a container (aliases: intercept, i)
  hijack
                     List the jobs in the pipelines (aliases: js)
  jobs
  login
                     Authenticate with the target (aliases: 1)
  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 a resource (aliases: pr)
  pause-resource
  pipelines
                     List the configured pipelines (aliases: ps)
                     Prune a stalled, landing, landed, or retiring worker (aliases: pw)
  prune-worker
  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
  targets
                     List saved targets (aliases: ts)
                     List the configured teams (aliases: t)
  teams
                     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-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

--no-color Disable color output

--check-creds Validate credential variables against credential manager

-p, --pipeline= Pipeline to configure

-c, --config= Pipeline configuration file

-v, --var=[NAME=STRING] Specify a string value to set for a variable in the pipeline -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

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1.10 More Resources

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

https://concoursetutorial.com/

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