Cloud Foundry CLI Cheat Sheet



About Cloud Foundry Cloud Foundry is an app-centric

cloud-native platform that aims to automate and streamline the life cycle of cloud applications. It is highly extendable, works with most popular programming languages, and runs on private and public cloud infrastructures. Besides the open source version, there are several commercial distributions, e.g., IBM Bluemix, HP Helion Stackato, GE Predix, and Photal CF. The documentation can be

The basics: multi-tenancy Cloud Foundry supports multi-tenancy with fine-grained user-based access control and resource quotas.

Development accounts are called organizations (or orgs). Each org has one or more spaces, to which apps and services are scoped. Collaborators access orgs through user accounts and can have different roles in different orgs and spaces. All users in an org share a resource quota plan, applications, service availability, and custom domalins.

Installing the Cloud Foundry CLI.
Whether you are using open source Cloud
Foundry in a private datacenter or a
managed proprietary version, you will
most likely need the Cloud Foundry CLI
(Command Line Interface) to interact with
the PaaS and applications. The CF CLI is
written in Go and is easy to install on most
platforms. Links to installers, binaries, and
instructions for Mac Linux, and Windows

Getting started

After getting credentials to a Cloud Foundry deployment, you need to tanget your CLI and login. The following commands will help you with these steps.

cf help <cf-cli-command> Displays CF CLI help with all the available commands. Specifying a command shows its help entry and options. cf api target-cf-api-unl> Sets or

shows the target API endpoint URL.

cf login Logs a user in. Shows prompts for username and password. It is possible to pass your API URL, username, password, org, and space as arguments, although it is not encouraged for security reasons. Alias.

cf target -o <org> -s <space>
Sets or shows the targeted org or space.
cf logout Logs a user out. Alias: lo

Managing applications

Next, are the most frequently used app management commands. of apps Lists all applications in the current space. Alias: a of app capp-name> Displays information such as health and status, for the specific app. of push capp-name> -s cstack> -b

cbuildpack-name: Pushes a new app or syncs changes to an existing app with or without a manifest. It it is also possible to simultaneously push several apps with a manifest:

cf push -f /path/to/manifest.yml You are highly encouraged to view cf help push for the full list of options.

cf scale capp-name> =1 <instances> -k cdisk> -m m m m <a href="mailto:display-the-instance-insta

deletes any mapped routes and -f forces deletion without confirmation.

of start capp-name> Starts an app.

cf stop <app-name> Stops an app.
Alias: sp
cf restart <app-name> Restarts an app
(the application process), Alias: rs

of restage capp-name: Re-builds application sources and re-runs the application in a new container. Aliasting Environment variables and logs

Use these commands to set/delete environment variables and view or tail application logs.

of env capp-name> Shows all environment variables for an ann. Alias e

cf_set-env_<app-name>
<variable-name> Sets an environment
variable for the specified app. Alias: se
cf_unset-env_<app-name>

cvariable-name> Deletes an environment variable. cf logs capp-name> Tails logs for the specified app. Use the --recent option to dump recent app logs instead. cf events cape-name> Shows recent app

Services

Coud Foundry services provide applications with data storage and other resources, often referred to as service instances. The relationship between Cloud Foundry services and service instances is somewhat similar to the relationship between ROBMS and the databases they manage. This section contains basic commands for creating CF service instances and binding them to apps.

of marketplace Lists all services ava in the marketplace. Alias: n of services Lists service instances in current space. Alias: s of service (service-name) Shows information about a service instance. of create-service (service-name) (plan) (service-instance) - c (parameters-json) Creates a service instance, Use the -c option to pass additional configuration parameters as a additional configuration parameters as a

JSON object. Example: cf create-service database altoros-plan mydb -c '{"ram_gb":8} cf delete service

cf bindservice (app-name)
cservice instance Binds a service
instance to the specified app. Use the -c

parameters as a JSON object.

cf unbind-service capp-name>
cservice-instance> Unbinds a service
instance from an app. Alias: us

Routes and domains Next, are the most frequent commands

for managing routes and domains. For more information, see this guide: https://paas.ly/routes-domains of routes, lists all routes in the current

space or organization. Alias: r
cf create-route cspaces cdomains - n
chostnames Creates a URL route in a
space. Example for app-host-altoros.com:
cf create-route my-space
altoros.com --hostname app-host

cf map-route capp-name> cdomain> -n chostname> Adds a previously created URL route to an app. Example for app-host.altoros.com:

--hostname app-host

of domains Lists all domains in the
target organization.

of create-domain <org> <domain>

Attaches a domain to an organization. Spaces

Spaces provide users within an org with access to a separate, shared location for building, deploying, and otherwise working with apps. Each app and service is scoped to a certain space.

of spaces Lists all spaces in the target org. of space <space-name> Shows

available information on a space (apps, domains, services, etc.) cf_create-space (space-name) = 0 congy Creates a new space with default quota in the specified organization.

cf delete space «space-name» Deletes a space. cf rename-space «old-space-name» «new-space-name» Renames a space.

Get the latest version at: www.altoros.com/visuals