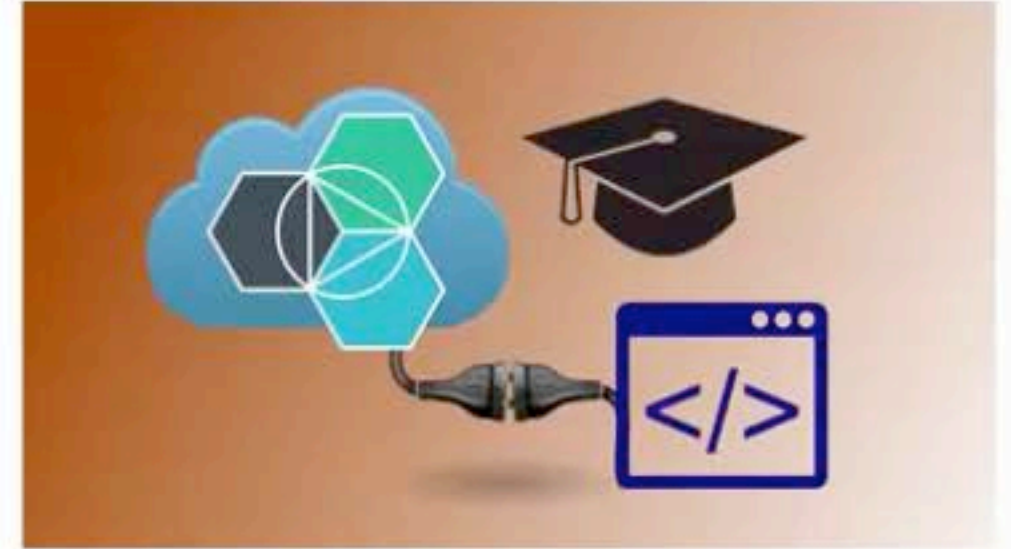


CLI Walkthrough – Getting Started

Learning Objectives:

1. CF CLI overview
2. CF login
3. CF target



CLI Overview

- CLI = Command Line Interface
- Deploy & Manage applications
- Manage users, organization, spaces
- Setup domains, routes

CLI Commands - basic

cf -help, -h	Prints the help
cf --version, -v	Prints CLI version
cf logout	Logs out the user
cf passwd	Change the account password

Summary

- `CLI login` logs to a specific region – targets specific Org and Space
- `CF target` allows to change the target Org and Space for the subsequent commands.
- `CF target` without Org/Space shows the currently selected Org/Space

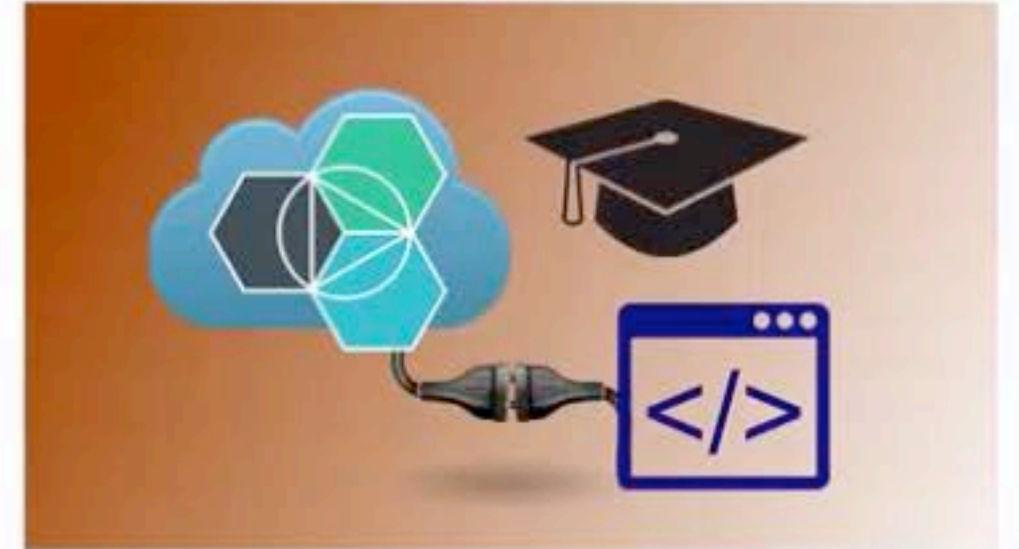
CLI – Account Management

(Part -2)

Learning Objectives:

1. CF Commands

- Domains
- Routes
- Quotas
- Organizations
- Spaces





Please Note

- **NOT** all Cloud Foundry CLI commands are supported on Bluemix
- For some you may get message “Access Denied” or “Unauthorized” message

```
$ cf delete-org "Cloud Warrior"  
Really delete the org Cloud Warrior and everything associated with it?> y  
Deleting org Cloud Warrior as ..  
FAILED  
Server error, status code: 403, error code: 10003, message: You are not authorized to perform the request
```

CLI Commands - Domains

cf domains Lists the domains

cf create-domain ORG domain
Creates the domain under the ORG

cf delete-domain domain -f
Deletes the domain if -f for forced deletion

cf create-shared-domain

cf delete-shared-domain

Only PaaS admin can use these commands

CLI Commands - Routes

<code>cf routes</code>	Lists all routes in the current space or organization
<code>cf create-route</code>	Create a url route in a space for later use
<code>cf check-route</code>	Checks if route exists
<code>cf map-route</code>	Maps the route to an application
<code>cf unmap-route</code>	Remove a url route from an app
<code>cf delete-route</code>	Delete a route
<code>cf delete-orphaned-routes</code>	Delete the orphaned route(s)

CLI Commands - Quotas

Quota plans = named sets of memory, service, and instance usage quotas.

<code>cf quotas</code>	Lists available usage quotas
<code>cf quota</code>	Show quota info
<code>cf set-quota</code>	Assign a quota to an org
<code>cf create-quota</code>	Define a new resource quota
<code>cf delete-quota</code>	Delete a quota
<code>cf update-quota</code>	Update an existing resource quota

CLI Commands - Organizations

<code>cf orgs</code>	List all orgs
<code>cf org</code>	Show org info
<code>cf create-org</code>	Create and org
<code>cf rename-org</code>	Rename the org
<code>cf delete-org</code>	Delete the org

Summary

- CLI Commands for account management
 - Domains management
 - Route management
 - Quota management
 - Organization management
 - Space management



Please Note

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- For some you may get message “Access Denied” or “Unauthorized” message

```
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Really delete the org Cloud Warrior and everything associated with it?> y  
Deleting org Cloud Warrior as ..  
FAILED  
Server error, status code: 403, error code: 10003, message: You are not authorized to perform the request
```

CLI Command – Application Information

`cf apps` Lists the apps under the selected target (Organization & Space)


`cf app APP_NAME` Shows the health/information for selected App

CLI Commands - Application Management

<code>cf start, stop</code>	Start and stop application
<code>cf logs, events, files</code>	View logs, files & events related to an app
<code>cf delete</code>	Delete the application
<code>cf restart-app-instance</code>	Restart the application
<code>cf restage</code>	Restage an application

CLI Command - Application push

```
cf push APP [-b URL] [-c COMMAND] [-d DOMAIN] [-i NUM_INSTANCES] [-m MEMORY]  
[-n HOST] [-p PATH] [-s STACK]  
[--no-hostname] [--no-route] [--no-start]
```



Pushes the application to Bluemix/Cloud Foundry PaaS

You may push with or without the **manifest** file

You may push multiple apps with the manifest file

Manifest File – manifest.yml

- Manifest tells *cf push* what to do with the applications
- Manifest file contains the various arguments in YAML format
- By default *cf push* uses a manifest file in current directory
- Applications may be pushed without the manifest as well

Automate the deployment

Reproducibility

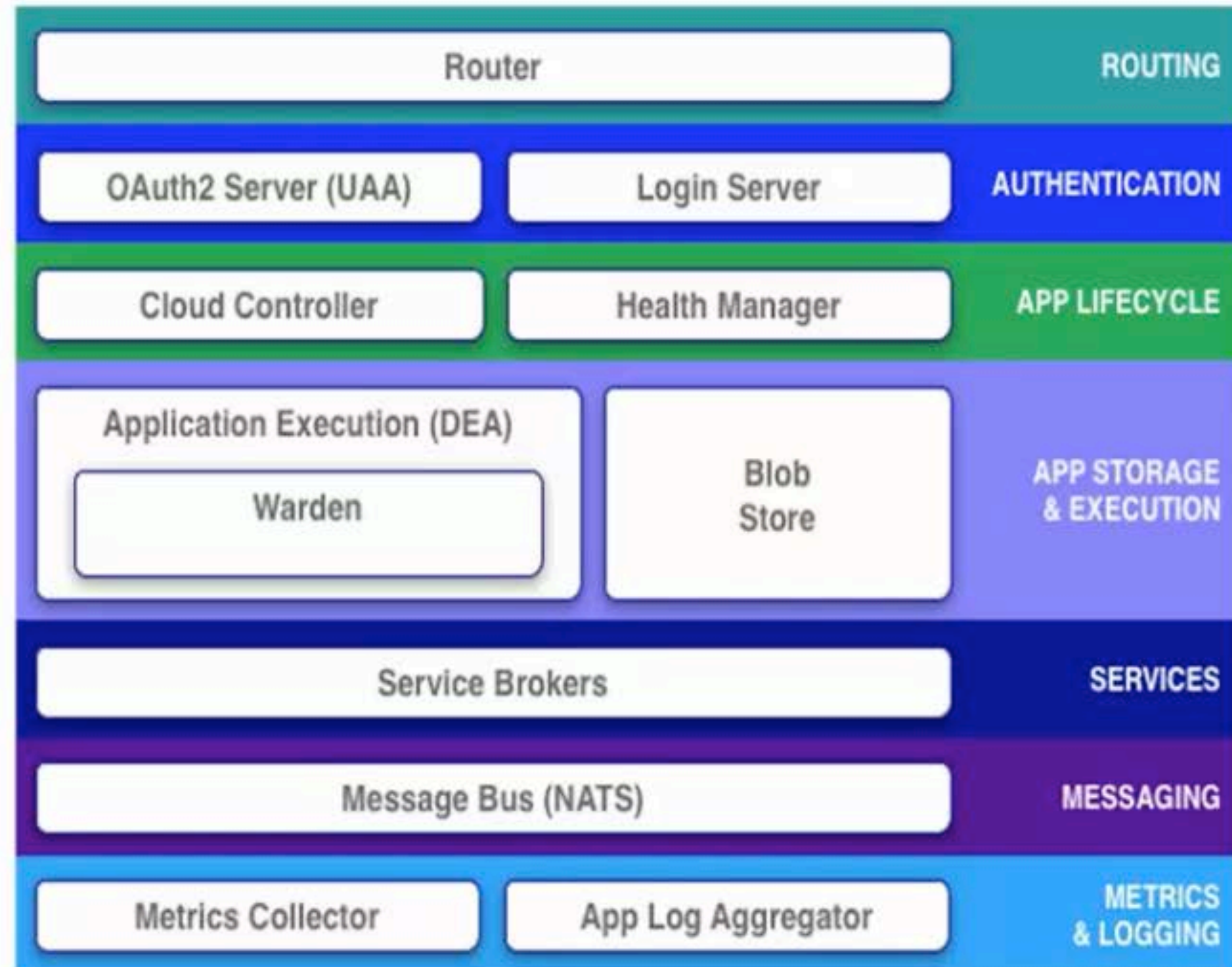
Consistency

Cloud Foundry Architecture

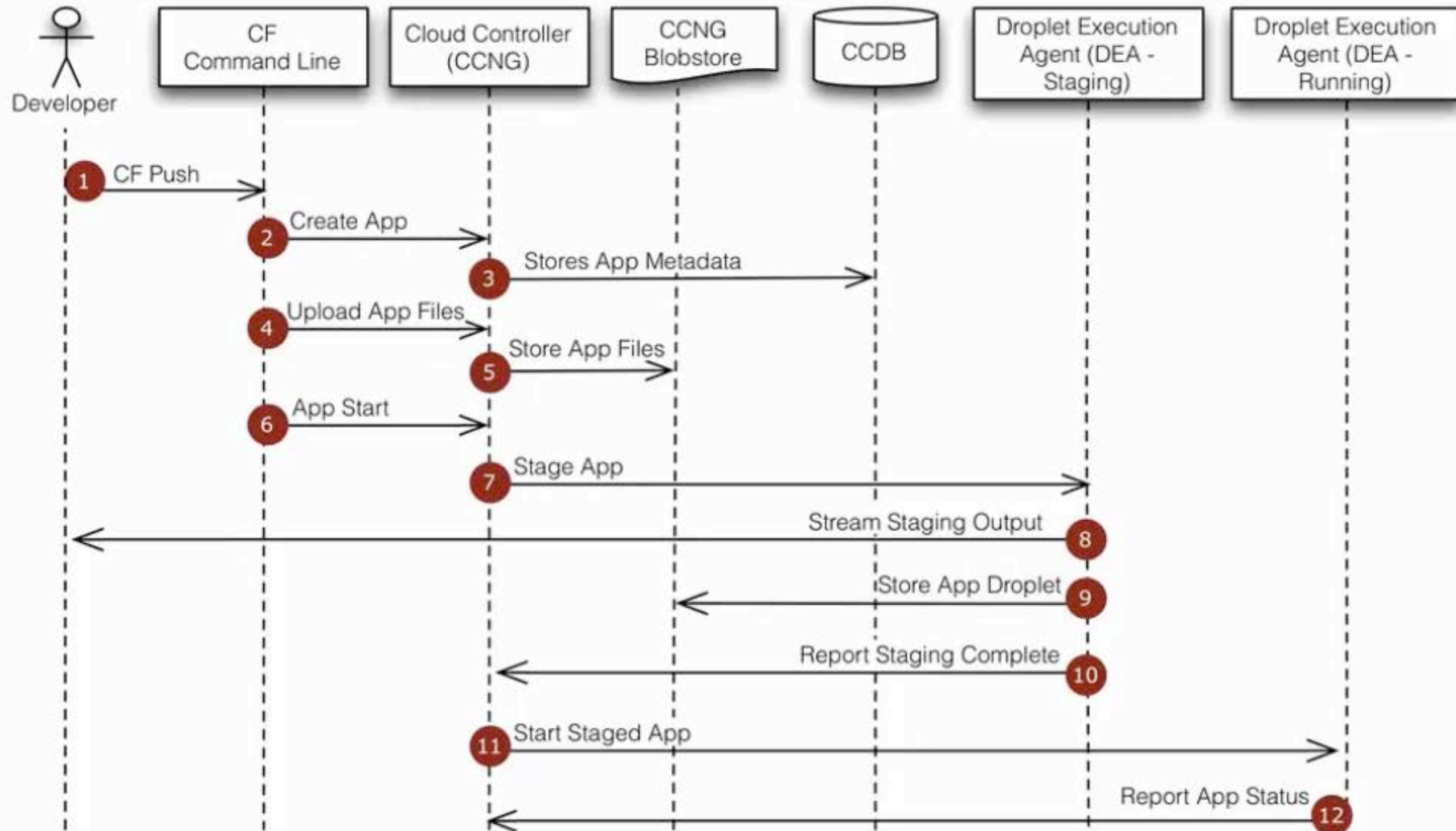
api.ng.bluemix.net →

commands →

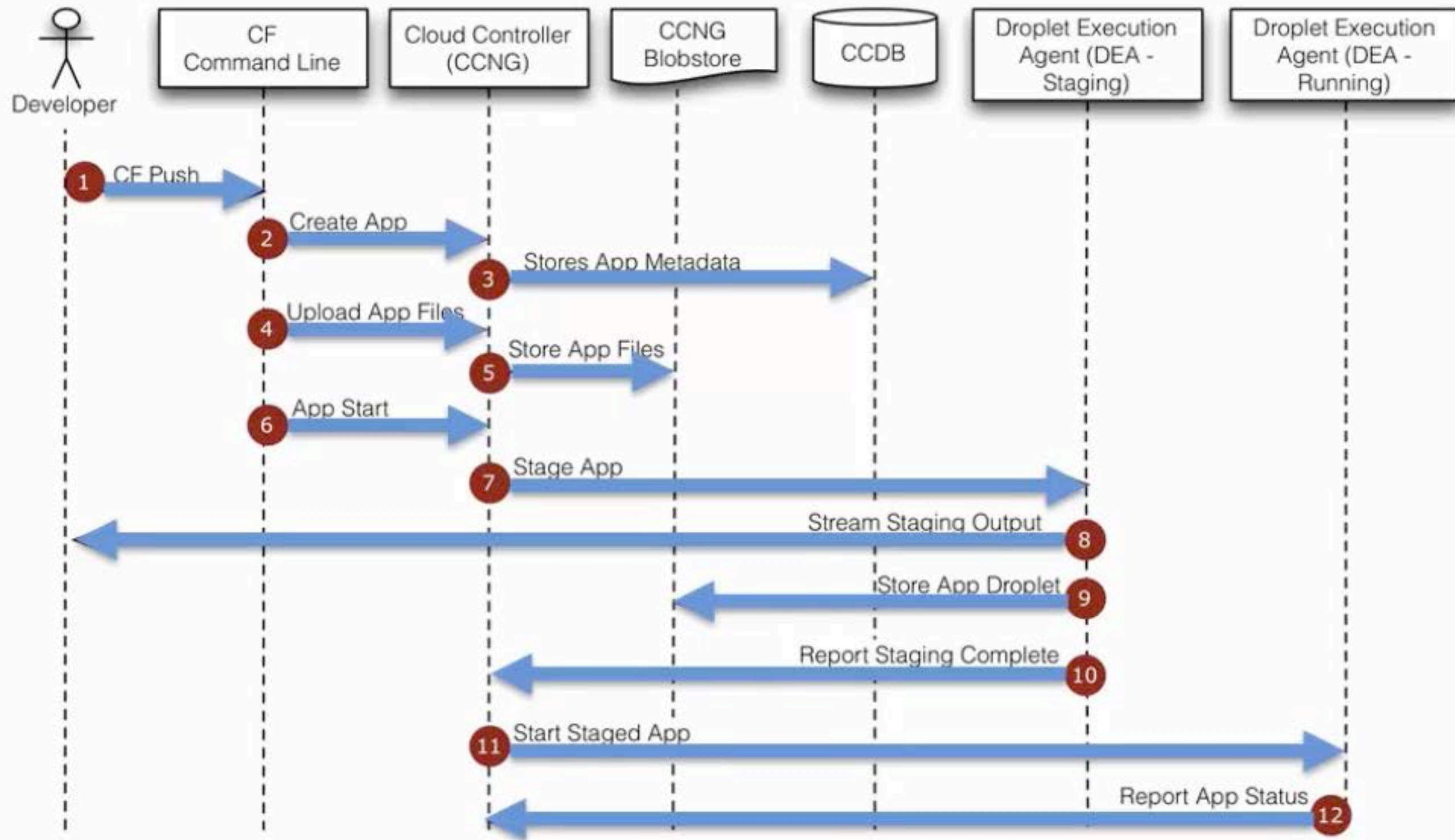
Stage & Start →



cf push



cf push



Summary

- Use of cf apps , cf app , cf stop , cf start commands
- Learned the use of cf logs, cf events
- **Manifest.yml** file and its benefits
- Flow of cf push command