Cloud Foundry CLI: deploying your application from the command line

developerWorks Courses

Accessing sample code

- Sample code is available to download with boilerplates or app runtimes

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Command-line interface

- Bluemix uses the Cloud Foundry command-line interface (CLI): `cf`
- `cf help` provides help page showing all the commands
- `cf help <command>` provides help for specific command

`cf l`	login	`cf ds`	delete service
`cf t`	target space or organization	`cf bs`	bind service to application
`cf a`	list apps in current space	`cf st`	start app
`cf app`	display status for specific app in current space	`cf sp`	stop app
`cf p`	push (deploy or update) app	`cf d`	delete app
`cf s`	show service info	`cf scale`	scale app
`cf cs`	create service	`cf logs`	tail or show logs for app

Sample cf commands

To log in to Bluemix:

```
cf l –a https://api.ng.bluemix.net -u <email> -p <password> -o <email> –s
dev
cf l –a https://api.eu-gb.bluemix.net -u <email> -p <password> -o <email>
–s dev
```

–This command will log in to Bluemix, set the organization to the user's own organization, and the space to dev

To check what space you are logged into or to change the space:

```
cf t
cf t -s test
```

–The first option prints the current target organization and space.
–The second option switches to the test space.

To check what spaces exist in an organization:

```
cf spaces
```

–Displays the spaces available in the current organization.

```
cf space dev
```

–Displays information about the dev space in the current organization.

Manifest file

- This file allows you to specify the parameters for an application deployment.
- The manifest.yml file is used at deploy time if found in directory application is being pushed from.

```
---
applications:
- name: bluemix-todo-node
  host: bluemix-todo-node-${random-word}
  command: node app.js
  memory: 128M
  services:
  - todo-db
```

```
---
applications:
- name: Myphpmyadmin
  memory: 128M
  instances: 1
  host: Myphpmyadmin
  path: .
  buildpack: https://github.com/dmikusa-pivotal/cf-php-build-pack.git
  services:
  - mysql_BlueMixLab
```

http://docs.cloudfoundry.org/devguide/deploy-apps/manifest.html

.cfignore

- When you push an application, all content of the current directory and all subdirectories are pushed to the server; this is not the behavior you always want.

- The .cfignore file allows you to control what is sent to the server by listing the files and directories that you do not want to send to the server

Sample .cfignore file:

```
.git
node_modules
tmp
lib-src
```