DevOps

Hybrid Integration Enablement

October 2017

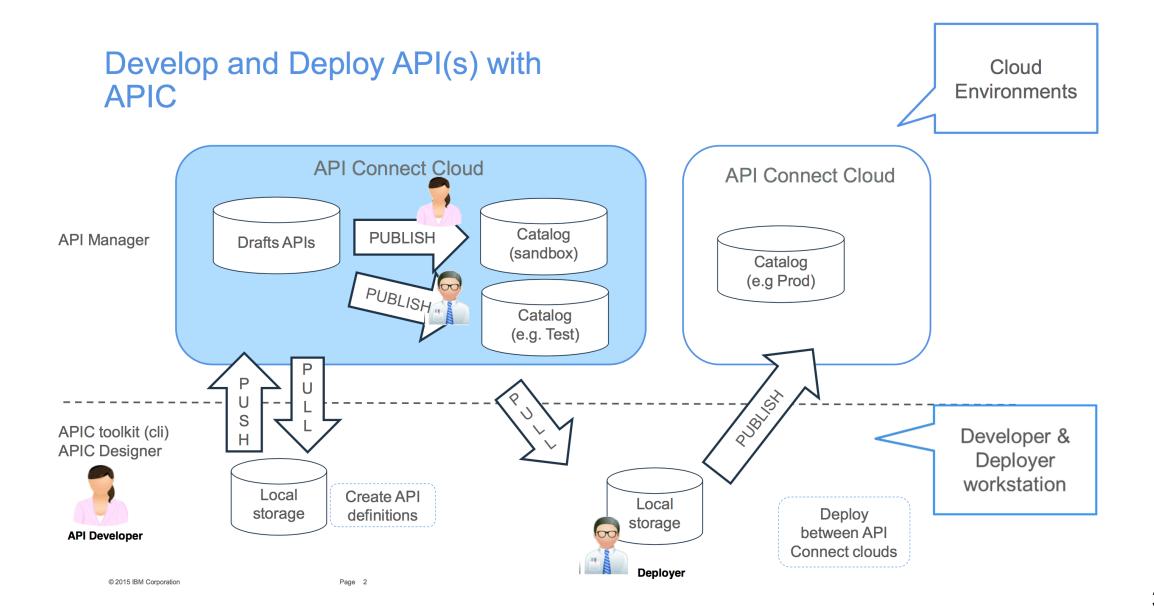


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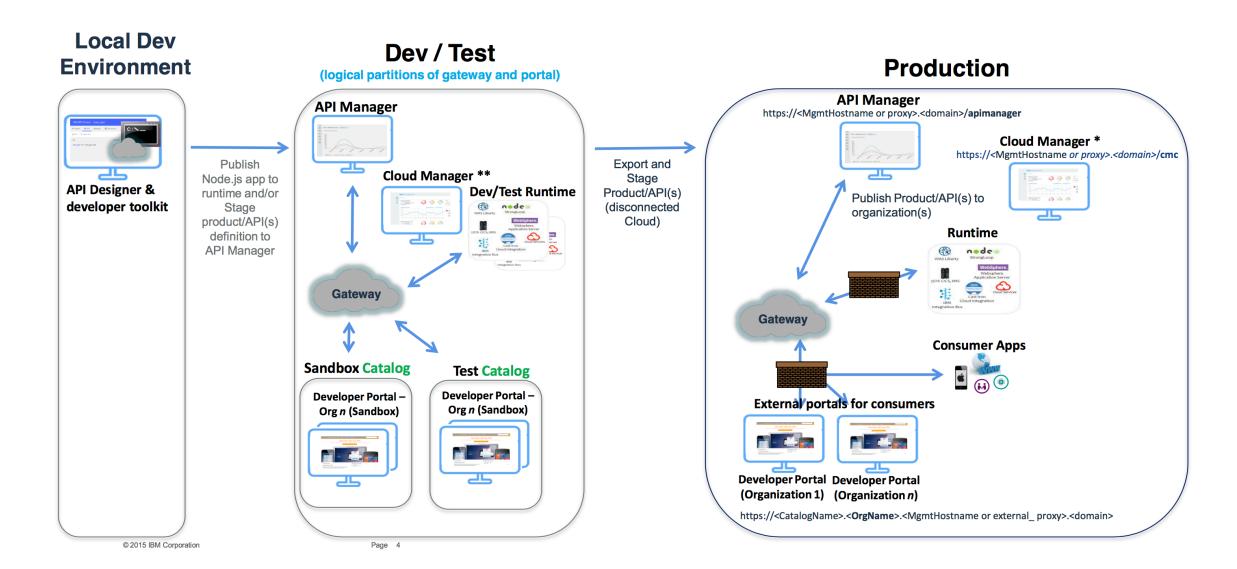
Use Case: How do I integrate Continuous Integration with API Connect? Does it work with Jenkins?

Use Case: What are strategies to maintain one source code folder for my environments?

Deployment Overview



Logical Architecture



Remember the CLI

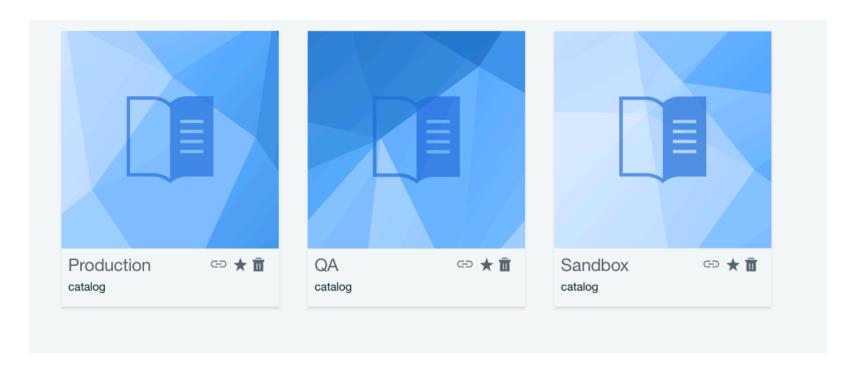
```
Commands (type apic COMMAND -h for additional help):
 Creating and validating artifacts
    config
                    manage configuration variables
                    create development artifacts
    create
    edit
                    run the API Designer
                    run the API Explorer
    explore
    validate
                    validate development artifacts
 Creating and testing applications
                    display service logs
    logs
                    create and manage LoopBack applications
    loopback
                    create and manage Swift Server Generator applications
    swiftserver
                    create Micro Gateway applications
   microgateway
                    service properties
    props
                    service management
    services
    start
                    start services
                    stop services
    stop
  Publishing to the cloud
                    manage APIs in a catalog
    apis
                    manage provider applications
    apps
                    manage catalogs in an organization
    catalogs
                    manage consumer applications
    devapps
                    manage APIs and products in drafts
    drafts
                    manage vendor extensions in a catalog
    extensions
                    log in to an IBM API Connect cloud
    login
                    log out of an IBM API Connect cloud
    logout
                    manage members
    members
                    manage organizations
    oras
                    manage policies in a catalog
    policies
                    manage products in a catalog
    products
                    publish products and APIs to a catalog
    publish
    securegateways
                   manage secure gateways
                    manage spaces in a catalog
    spaces
    subscriptions
                    manage subscriptions
```

- Built in Help files are available for the CLI
 - Be sure to learn more about what each command does
 - Valuable commands are here for automation.
 - We are technology agnostic, but this component helps with integration (scripting)

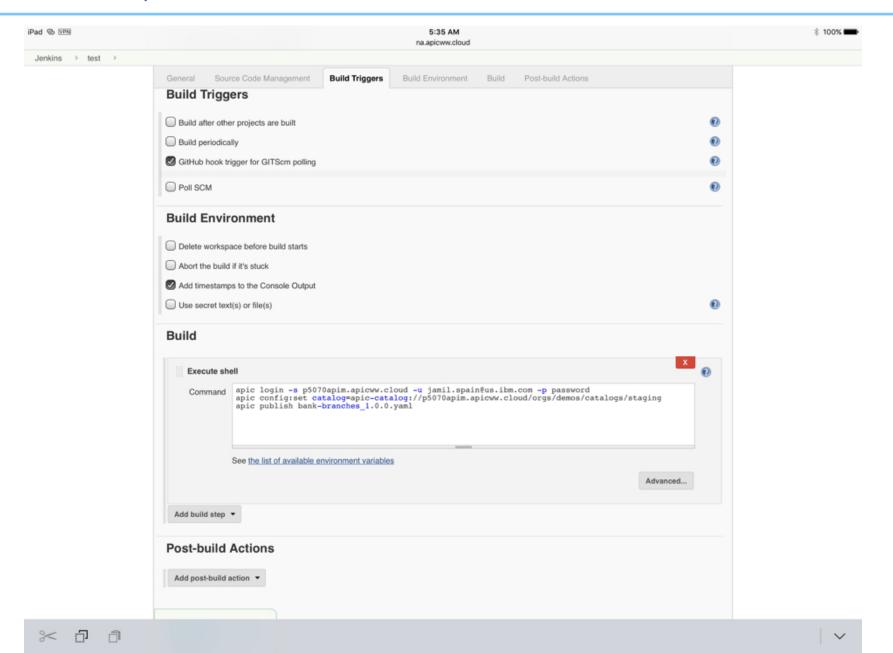
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Solving Our Use Case

- Scripts can publish Product / API between Catalogs
- Remember the API definitions to declare properties by catalog
- 3 4 steps to publish:
 - Logging in
 - Set Catalog
 - Publish API (validate optional)



Jenkins Excerpt

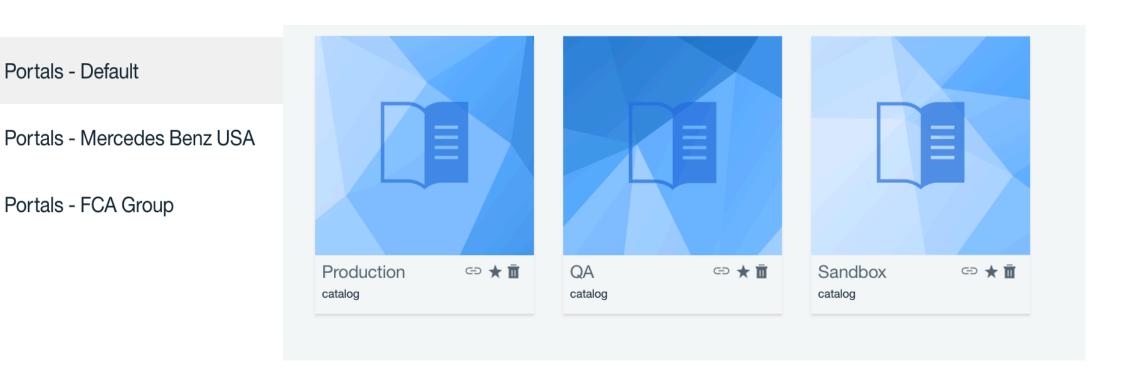


API Developer Workflow

Portals - Default

Portals - FCA Group

- API Designer uses the CLI to make this process easier.
- To move from one Catalog to another, you can create connections to each catalog and publish
- Spaces show up just like singular catalogs too, process is the same.



Understanding Versioning

- When we version Products, we upgrade the version of Product & API.
- This works great if it's same API version going in new Product, but for may other use cases we need a solution.
- API Defined Base Path can provide some context without forcing paths to take the on the obligation. i.e.

--header 'accept: application/json' \

--header 'x-ibm-client-id: REPLACE_THIS_KEY' \
--header 'x-ibm-client-secret: REPLACE THIS KEY'

--url https://p5070dp.apicww.cloud/na/sb/branches/details \

- /v1/branches
- /v2/branches

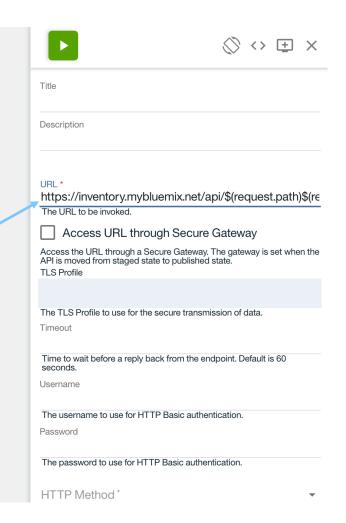
curl --request GET \

Base Path Base Path /api/v2

```
Paths
  /Items
  /Items/replaceOrCreate
  /Items/upsertWithWhere
  /Items/{id}/exists
  /Items/{id}
  /Items/{id}/replace
  /Items/findOne
  /Items/update
  /Items/count
```

Accommodate the Invoke Panel

- Be Sure to account for API Base Path when setting up Invoke Panel Target
- Especially needed for Service APIs that mirror paths of the target service
- No matter what the API base path migrates to i.e. api/1 api/v2 /api/v3; the invoke will still proxy to the loopback service at /api



DevOps Questions

• Open Conversation / Questions?

Up Next:

Demo

