



# Edge Management

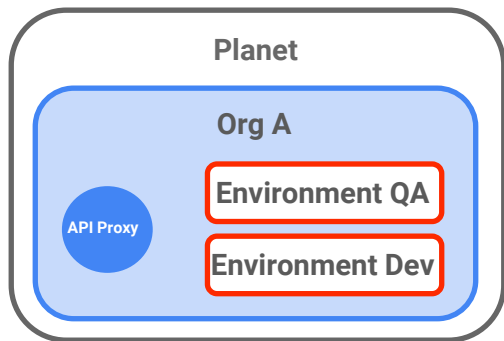
API proxy deployment

# Agenda

- API Proxy deployment
- API Proxy import/export
- API Proxy deployment and SDLC integration

# Deploying an API Proxy

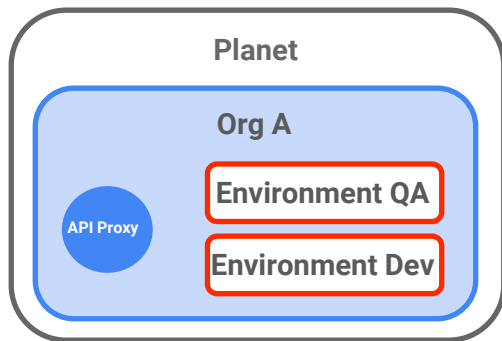
## 1. Proxy created



- An API proxy is a part of the organization.
- When an API proxy is created or imported, it is logically placed within the boundary of the specified organization.

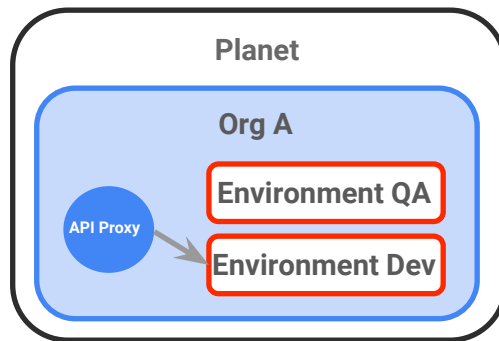
# Deploying an API Proxy

1. Proxy created



- An API proxy is a part of the organization.
- When an API proxy is created or imported, it is logically placed within the boundary of the specified organization.

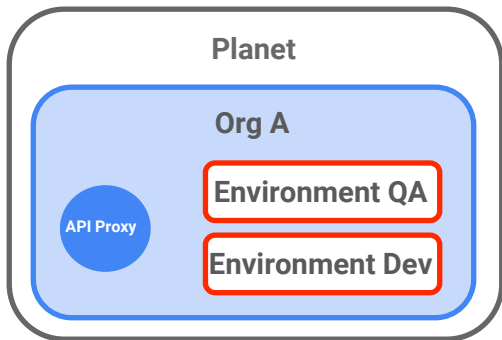
2. Proxy deployed to Dev



- An API proxy deployment is a logical association between the API proxy revision and a specified environment.
- A revision represents a snapshot of the state of the proxy code.

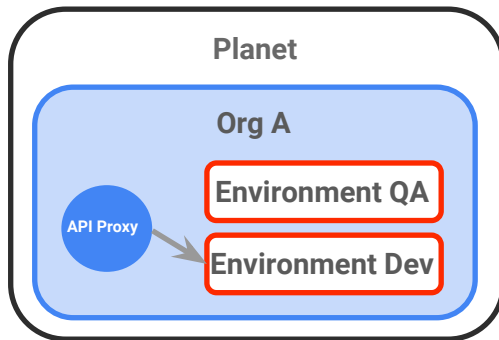
# Deploying an API Proxy

1. Proxy created



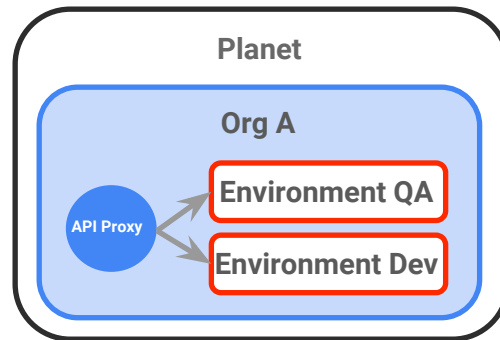
- An API proxy is a part of the organization.
- When an API proxy is created or imported, it is logically placed within the boundary of the specified organization.

2. Proxy deployed to Dev



- An API proxy deployment is a logical association between the API proxy revision and a specified environment.
- A revision represents a snapshot of the state of the proxy code.

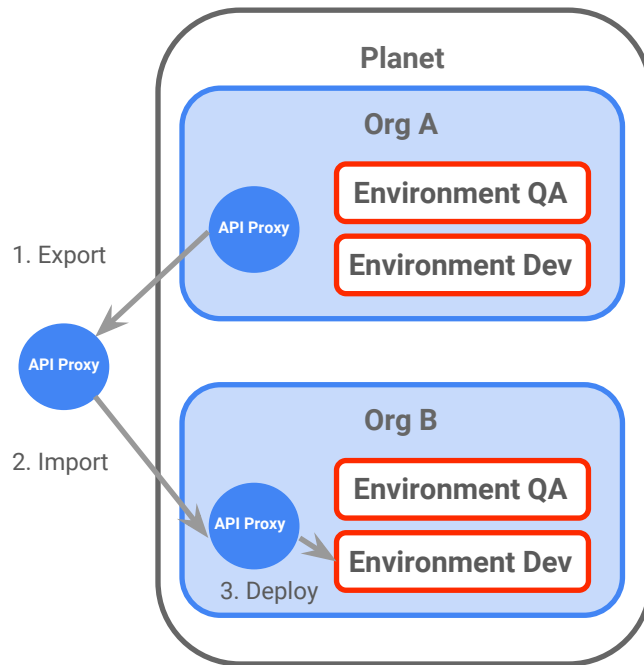
3. Proxy deployed to QA



- Deploying the API proxy to QA doesn't involve movement of code artifacts.
- An API proxy revision can be simultaneously deployed to multiple environments.

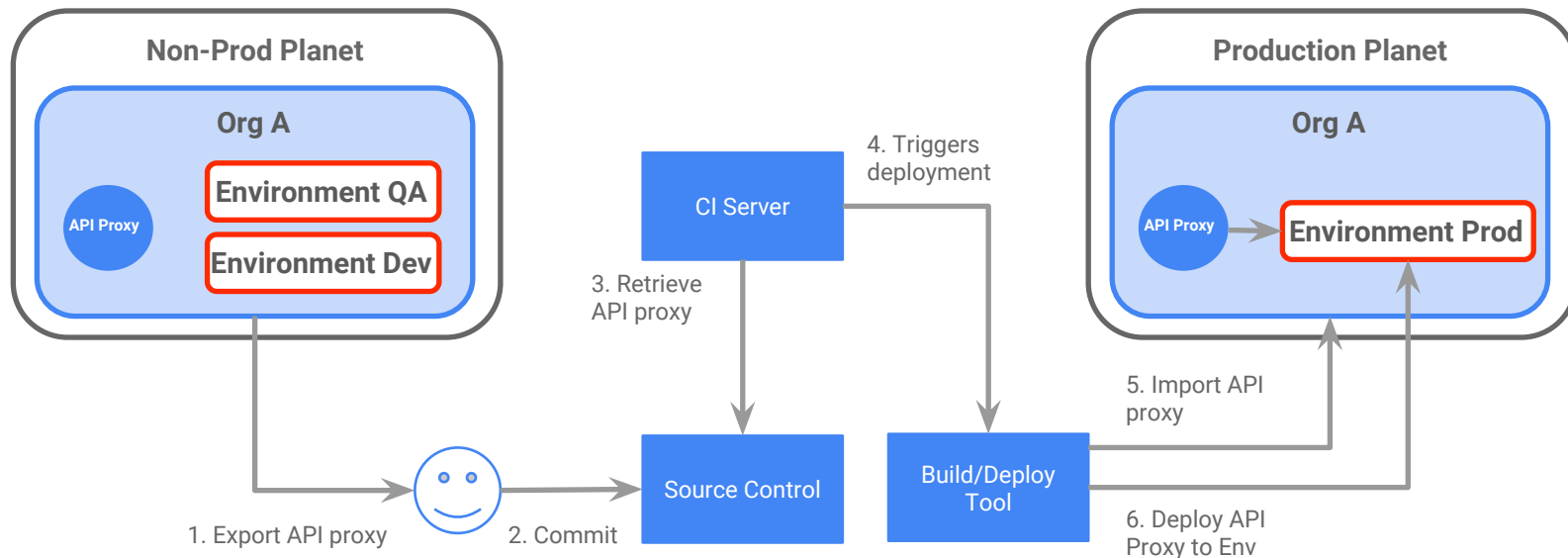
# Deploying an API proxy to a new organization

- An Organization represents a tenant. Organizations are hard logical boundaries and drive strong separation of assets.
- In order to deploy an API Proxy owned by Org A to environment Dev B owned by Org B. The API Proxy must be:
  - Exported from Org A.
  - Imported to Org B.
  - Deploy to Dev Env.
- This applies equally to two organizations in the same planet or two organizations in two different planets.

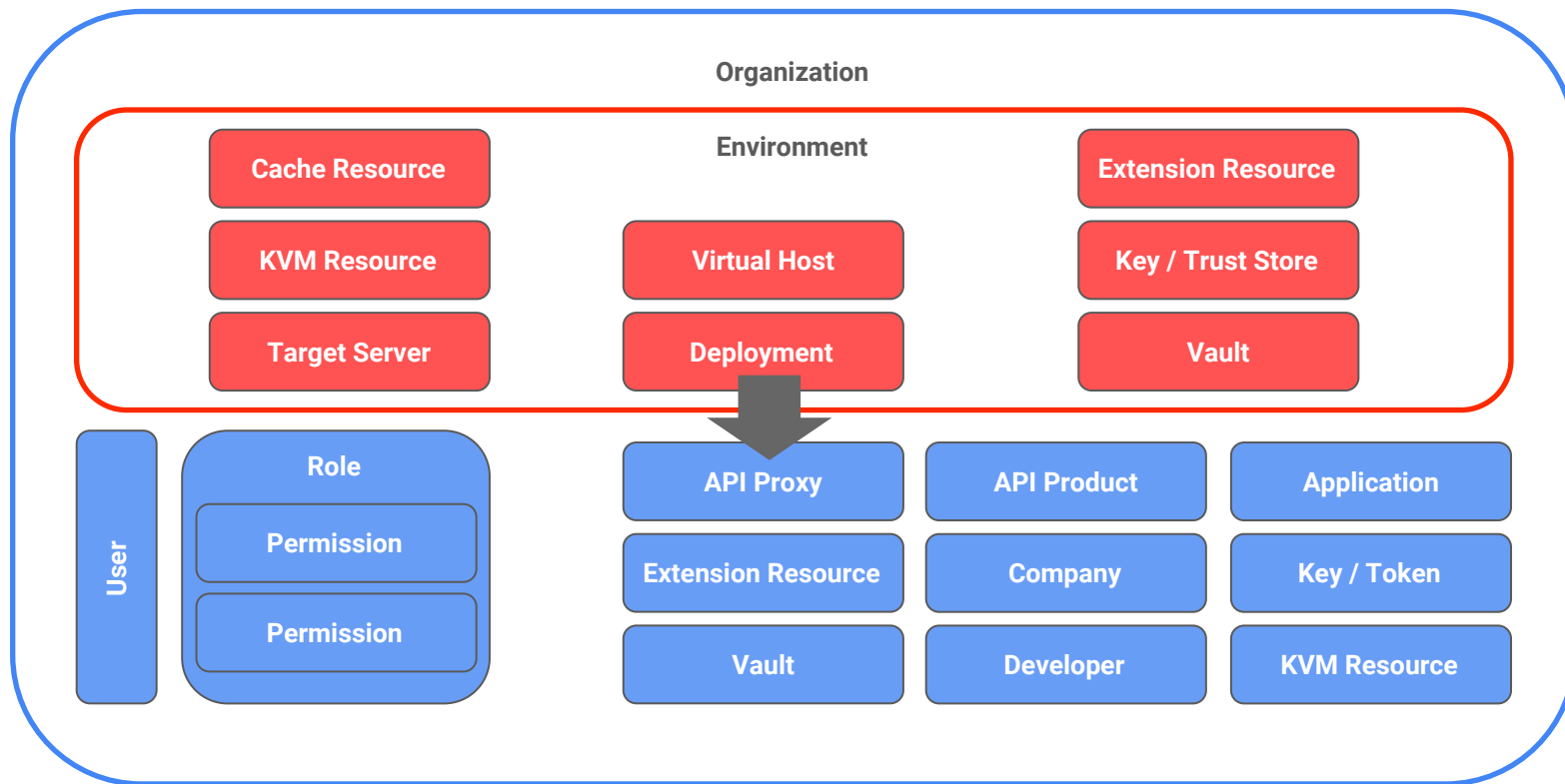


# Integrating API proxy deployment with your SDLC

- Automating API Proxy deployment and other tasks related to Apigee management doesn't require new tools. You can leverage your existing investment and favorite tools (i.e. Git, Jenkins, Maven, etc) to integrate API Proxy deployment in your SDLC.
- It is important to remember that a deployment may be composed by more than just API Proxies. Target Servers, Cache resources, KVM definitions, API Products, etc, may need to be promoted between Orgs and Envs.



# Organization and Environment Scope





# List/describe API proxies

## List APIs in an organization

```
curl -v -u <sysAdminEmail>:<passwd> http://<ms_IP>:8080/v1/o/<orgname>/apis  
E.g.
```

```
curl -uopdk@google.com http://localhost:8080/v1/o/VALIDATE/apis
```

```
[ "smartdocs", "healthcheck", "passthrough" ]
```

# List/describe API proxies

Get an API

```
curl -u <sysAdminEmail>:<passwd> http://<ms_IP>:8080/v1/o/<orgname>/apis/<apiname>
```

e.g `curl -uopdk@google.com http://localhost:8080/v1/o/VALIDATE/apis/smartdocs`

```
{
  "metaData": {
    "createdAt": 1517275362887,
    "createdBy": "opdk@google.com",
    "lastModifiedAt": 1517275362887,
    "lastModifiedBy": "opdk@google.com",
    "subType": "null"
  },
  "name": "smartdocs",
  "revision": [ "1", "2" ]
}
```

# List/describe API proxies

## Get a revision

`curl -v -u <sysAdminEmail>:<passwd> http://<ms_IP>:8080/v1/o/<orgname>/apis/<apiname>/revisions/<revision>`  
e.g.

```
curl -uopdk@google.com http://localhost:8080/v1/o/VALIDATE/apis/smartdocs/revisions/1
Enter host password for user 'opdk@google.com':
{
  "basepaths" : [ "/smartdocs/v1" ],
  "configurationVersion" : {
    "majorVersion" : 4,
    "minorVersion" : 0
  },
  "contextInfo" : "Revision 1 of application smartdocs, in organization VALIDATE",
  "policies" : [ "cors-preflight-response", "create-smartdocs-response", "dns-resolve", "extract-cors-headers",
"extract-request-response", "modify-target-url" ],
  "proxies" : [ "default" ],
  "proxyEndpoints" : [ "default" ]
}
```

# Import/Export API proxies

## Export API Proxy bundle

```
curl -u <sysAdminEmail>:<passwd>  
http://<ms_IP>:8080/v1/o/<orgname>/apis/<apiname>/revisions/<revision>?format=bundle -o  
<apiname>.zip
```

e.g.

```
curl -u uopdk@google.com  
http://localhost:8080/v1/o/VALIDATE/apis/smartdocs/revisions/1?format=bundle -o smartdocs.zip
```

## Import API Proxy bundle

```
curl -v -u <sysAdminEmail>:<passwd> -X POST -H "Content-Type: application/octet-stream" -T  
<apiproxybundle.zip> "http://<ms_IP>:8080/v1/o/<orgname>/apis?action=import&name=<apiname>"
```

e.g.

```
curl -v -u uopdk@google.com -X POST -H "Content-Type: application/octet-stream" -T smartdocs.zip  
"http://localhost:8080/v1/o/VALIDATE/apis?action=import&name=smartdocs"
```



# Thank You