Google Cloud

Edge NodeJS

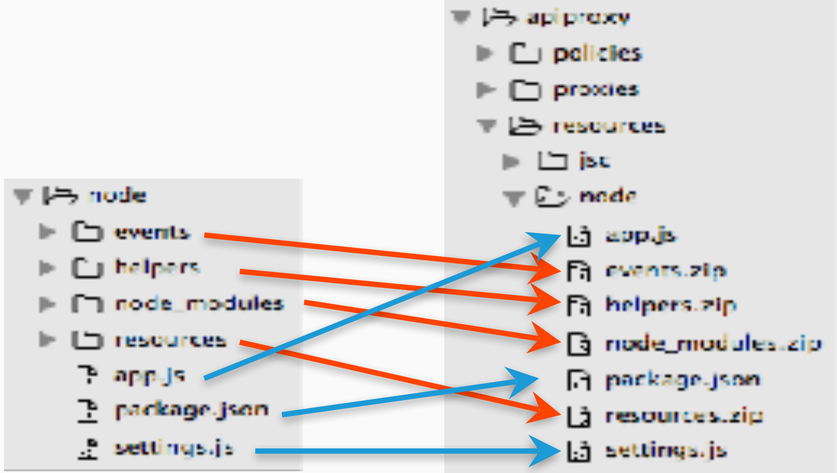
Packaging and Deployment

Proprietary + Confidential

NodeJS deployment considerations

All files in root directory copied under /resources/node

All folders compressed and copied under /resources/node



```
▼ node
  ▶ events
  ▶ helpers
  ▶ node_modules
  ▶ resources
    app.js
    package.json
    settings.js
```

```
▼ apiproxy
  ▶ policies
  ▶ proxies
  ▼ resources
    ▶ jsc
    ▼ node
        app.js
        events.zip
        helpers.zip
        node_modules.zip
        package.json
        resources.zip
        settings.js
```

Deployment tools

Management UI

Create a new API proxy with Node.js support and edit Node.js code

Deploy/save via Management UI

Shell scripting

Like everything in Apigee, importing and deployment of bundles are exposed as API calls

Manually copying/zipping Node.js files/folders and executing management API calls to deploy bundle

http://apigee.com/docs/api-services/content/deploying-proxies-command-line

Deployment tools

- apigeetool for Node.js deployment
    - Zips installed modules and directories deploys them with the bundle
    - http://apigee.com/docs/api-services/content/deploying-standalone-nodejs-app
- Maven
    - Using Apigee Maven Plugin
    - https://github.com/apigee/apigee-deploy-maven-plugin

```
$ sudo npm install -g apigeetool
$ apigeetool deploynodeapp
    -n {proxyname}
    -o {org}
    -e {env}
    -b {/your/proxy/basepath}
    -d {./relative_or_absolute/path/to/node/app/on/local/
machine}
    -m {nameOfServer.js}
    -u {enterprise_email@example.com}
    -p {password}
```

Caveats

You cannot edit files in these zipped directories on the Edge management UI's editor. If you need to change them, you can export your project, edit the files locally, and then redeploy.

Installed modules (node_modules) can be very big in size – which will present problems during import, export or extraction of the bundle

Solution

use Management API to execute NPM commands for an API proxy deployed on Apigee Edge.

http://apigee.com/docs/management/apis/post/organizations/%7Borg_name%7D/apis/%7Bapi_name%7D/revisions/%7Brevision_num%7D/npm

THANK YOU