

Connect the usergrid with Apigee_127

Venkateswarlu Kandukuri

API M Developer

Miracle Software Systems, Inc.

Apigee_127:

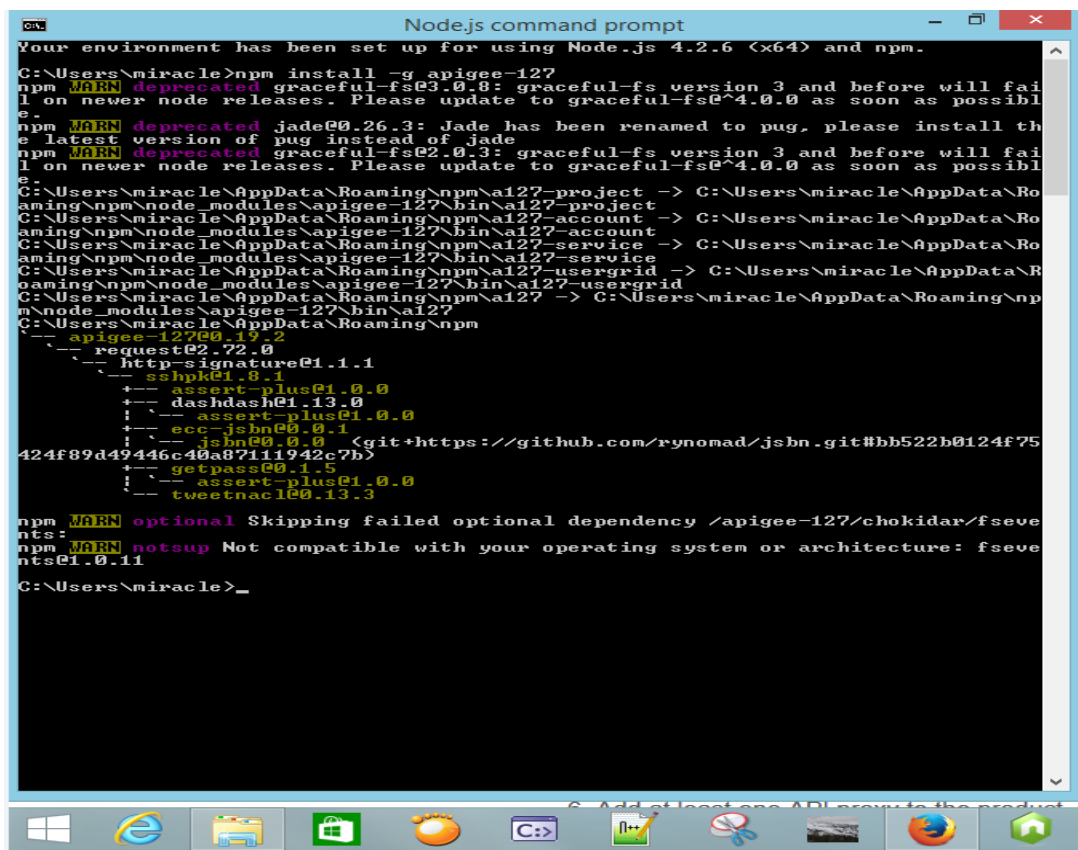
Apigee-127 is a model-first toolkit for building rich, enterprise-class API's in Node.js on your laptop.

Step 1: Install the Apigee_127

For installing the apigee_127 use the following commands:

a127 install -g apigee-127(for windows users).

\$sudo npm install -g apigee-127(Installing with sudo).



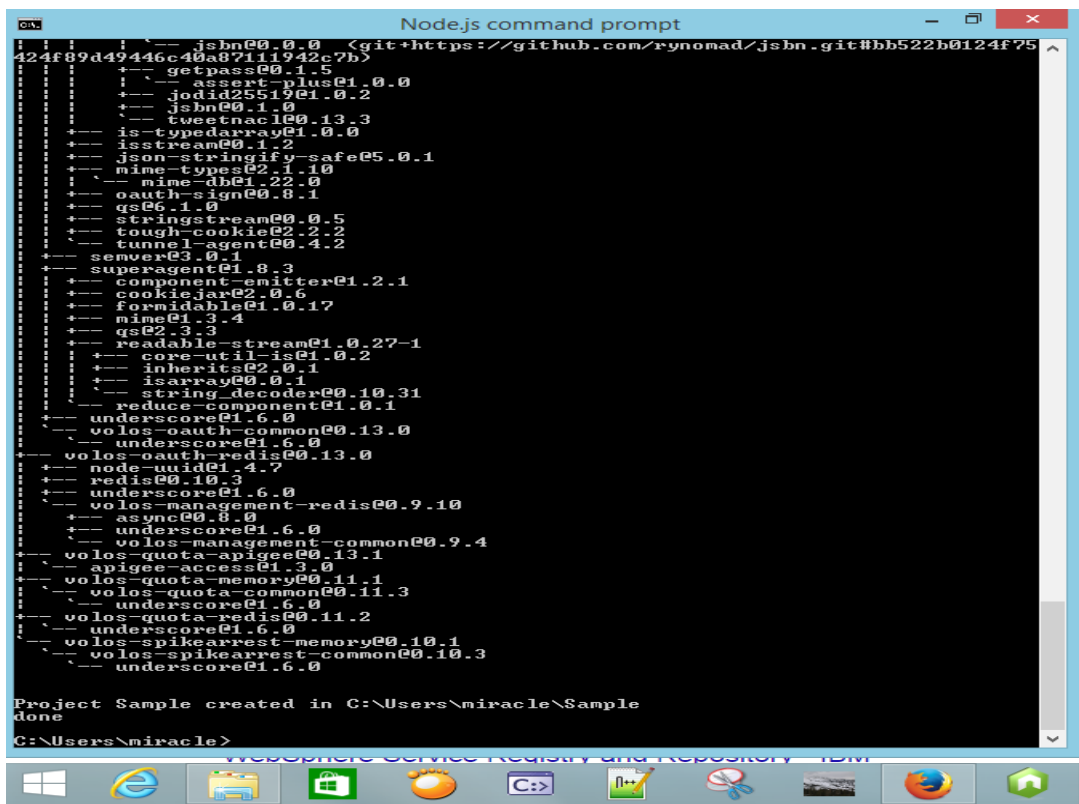
```
Node.js command prompt
Your environment has been set up for using Node.js 4.2.6 <x64> and npm.

C:\Users\miracle>npm install -g apigee-127
npm WARN deprecated graceful-fs@3.0.8: graceful-fs version 3 and before will fail
l on newer node releases. Please update to graceful-fs@4.0.0 as soon as possibl
e.
npm WARN deprecated jade@0.26.3: Jade has been renamed to pug, please install th
e latest version of pug instead of jade
npm WARN deprecated graceful-fs@2.0.3: graceful-fs version 3 and before will fai
l on newer node releases. Please update to graceful-fs@4.0.0 as soon as possibl
e.
C:\Users\miracle\AppData\Roaming\npm\ai127-project -> C:\Users\miracle\AppData\Ro
aming\npm\node_modules\apigee-127\bin\ai127-project
C:\Users\miracle\AppData\Roaming\npm\ai127-account -> C:\Users\miracle\AppData\Ro
aming\npm\node_modules\apigee-127\bin\ai127-account
C:\Users\miracle\AppData\Roaming\npm\ai127-service -> C:\Users\miracle\AppData\Ro
aming\npm\node_modules\apigee-127\bin\ai127-service
C:\Users\miracle\AppData\Roaming\npm\ai127-usergrid -> C:\Users\miracle\AppData\Ro
aming\npm\node_modules\apigee-127\bin\ai127-usergrid
C:\Users\miracle\AppData\Roaming\npm\ai127 -> C:\Users\miracle\AppData\Roaming\np
m\node_modules\apigee-127\bin\ai127
C:\Users\miracle\AppData\Roaming\npm
-- apigee-127@0.19.2
  -- request@2.72.0
    -- http-signature@1.1.1
      -- sshpk@1.8.1
        +- assert-plus@1.0.0
        +- dashdash@1.13.0
        +- assert-plus@1.0.0
        +- ecc-jsbn@0.0.1
        +- jsbn@0.0.0 <git+https://github.com/rynomad/jsbn.git#bb522b0124f75
424f89d49446c40a87111942c7b>
        +- getpass@0.1.5
        +- assert-plus@1.0.0
        +- tweetnacl@0.13.3
      --
npm WARN optional Skipping failed optional dependency /apigee-127/chokidar/fseve
nts:
npm WARN notsup Not compatible with your operating system or architecture: fseve
nts@1.0.11
C:\Users\miracle>
```

Step 2: Create a project

Create a project by using the command

a127 project create project-name.



```
Node.js command prompt
424f89d49446c40a87111942e7b>
+-- jsbn@0.0.0 <git+https://github.com/rvnomad/jsbn.git#bb522b0124f75
+-- getpass@0.1.5
+-- assert-plus@1.0.0
+-- joida25519@1.0.2
+-- jsbn@0.1.0
+-- tweetnacl@0.13.3
+-- is-typedarray@1.0.0
+-- isstream@0.1.2
+-- json-stringify-safe@5.0.1
+-- mime-types@2.1.10
+-- mime-db@1.22.0
+-- oauth-sign@0.8.1
+-- qs@6.1.0
+-- stringstream@0.0.5
+-- tough-cookie@2.2.2
+-- tunnel-agent@0.4.2
+-- semver@0.1
+-- superagent@1.8.3
+-- component-emitter@1.2.1
+-- cookiejar@2.0.6
+-- formidable@1.0.17
+-- mime@1.3.4
+-- qs@2.3.3
+-- readable-stream@1.0.27-1
+-- core-util-is@1.0.2
+-- inherits@2.0.1
+-- isarray@0.0.1
+-- string_decoder@0.10.31
+-- reduce-component@1.0.1
+-- underscore@1.6.0
+-- volos-oauth-common@0.13.0
+-- underscore@1.6.0
+-- volos-oauth-redis@0.13.0
+-- node-uuid@1.4.7
+-- redis@0.10.3
+-- underscore@1.6.0
+-- volos-management-redis@0.9.10
+-- async@0.8.0
+-- underscore@1.6.0
+-- volos-management-common@0.9.4
+-- volos-quota-api@0.13.1
+-- apigee-access@1.3.0
+-- volos-quota-memory@0.11.1
+-- volos-quota-common@0.11.3
+-- underscore@1.6.0
+-- volos-quota-redis@0.11.2
+-- underscore@1.6.0
+-- volos-spikearrest-memory@0.10.1
+-- volos-spikearrest-common@0.10.3
+-- underscore@1.6.0

Project Sample created in C:\Users\niracle\Sample
done
C:\Users\niracle>
```

Step 3: Create a directory

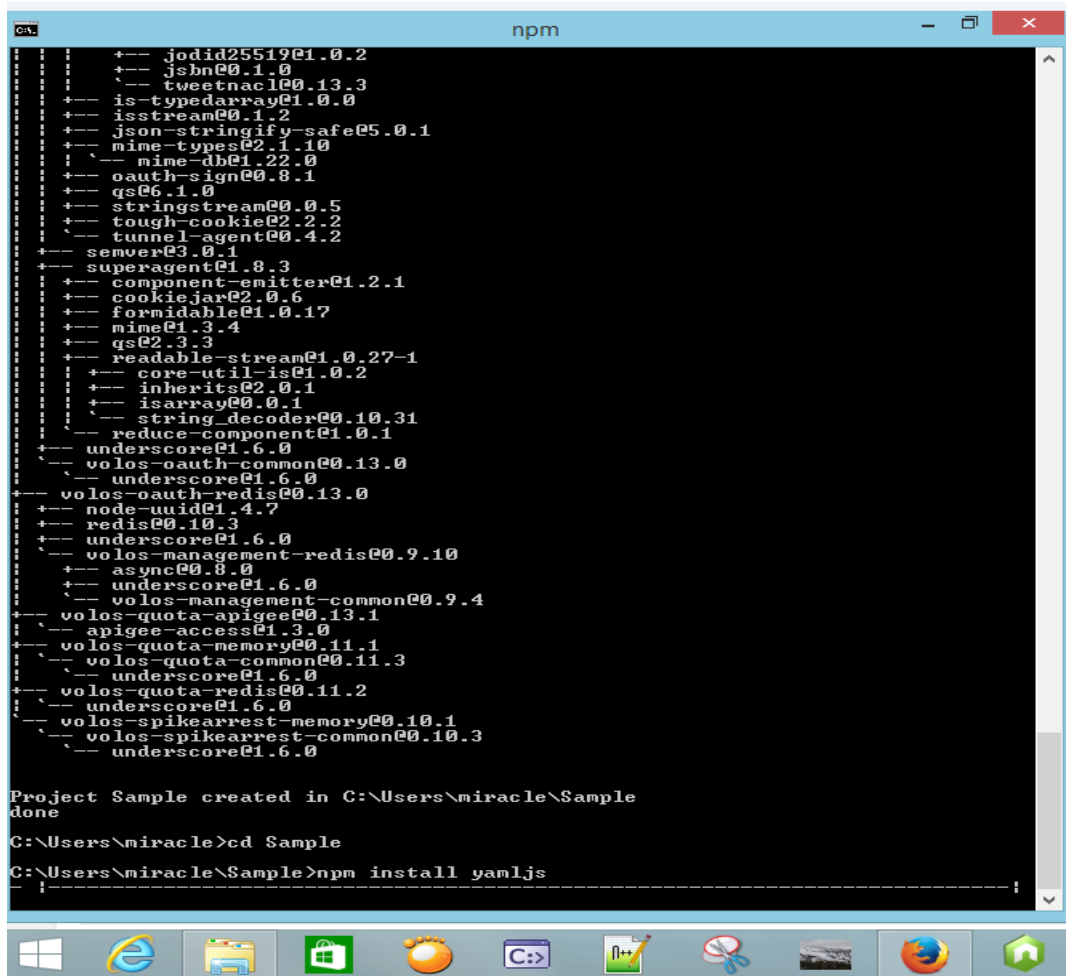
Create a directory for a project like `cd Sample`.

Step 4:

For some versions of npm in windows have some problems on the **npm install** step of a127 project-create.

The following steps resolve this issue.

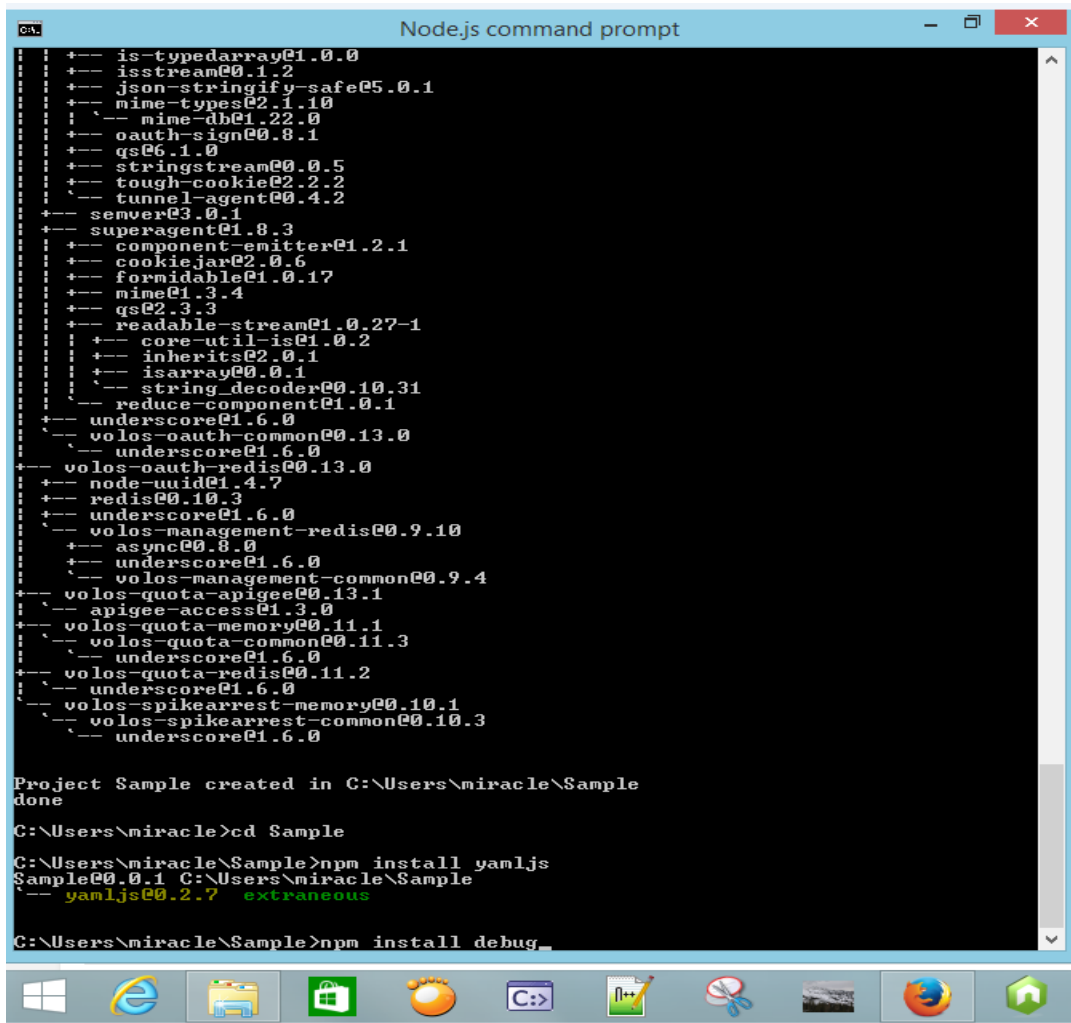
1.npm install yamlljs.



```
npm
+--- jodid25519@1.0.2
+--- jsbn@0.1.0
+--- tweetnacl@0.13.3
+--- is-typedarray@1.0.0
+--- isstream@0.1.2
+--- json-stringify-safe@5.0.1
+--- mime-types@2.1.10
+--- mime-db@1.22.0
+--- oauth-sign@0.8.1
+--- qs@6.1.0
+--- stringstream@0.0.5
+--- tough-cookie@2.2.2
+--- tunnel-agent@0.4.2
+--- semver@3.0.1
+--- superagent@1.8.3
+--- component-emitter@1.2.1
+--- cookiejar@2.0.6
+--- formidable@1.0.17
+--- mime@1.3.4
+--- qs@2.3.3
+--- readable-stream@1.0.27-1
+--- core-util-is@1.0.2
+--- inherits@2.0.1
+--- isarray@0.0.1
+--- string_decoder@0.10.31
+--- reduce-component@1.0.1
+--- underscore@1.6.0
+--- volos-oauth-common@0.13.0
+--- underscore@1.6.0
+--- volos-oauth-redis@0.13.0
+--- node-uuid@1.4.7
+--- redis@0.10.3
+--- underscore@1.6.0
+--- volos-management-redis@0.9.10
+--- async@0.8.0
+--- underscore@1.6.0
+--- volos-management-common@0.9.4
+--- volos-quota-apigee@0.13.1
+--- apigee-access@1.3.0
+--- volos-quota-memory@0.11.1
+--- volos-quota-common@0.11.3
+--- underscore@1.6.0
+--- volos-quota-redis@0.11.2
+--- underscore@1.6.0
+--- volos-spike-arrest-memory@0.10.1
+--- volos-spike-arrest-common@0.10.3
+--- underscore@1.6.0

Project Sample created in C:\Users\miracle\Sample
done
C:\Users\miracle>cd Sample
C:\Users\miracle\Sample>npm install yamlljs
```

2.npm install debug.



```
Node.js command prompt

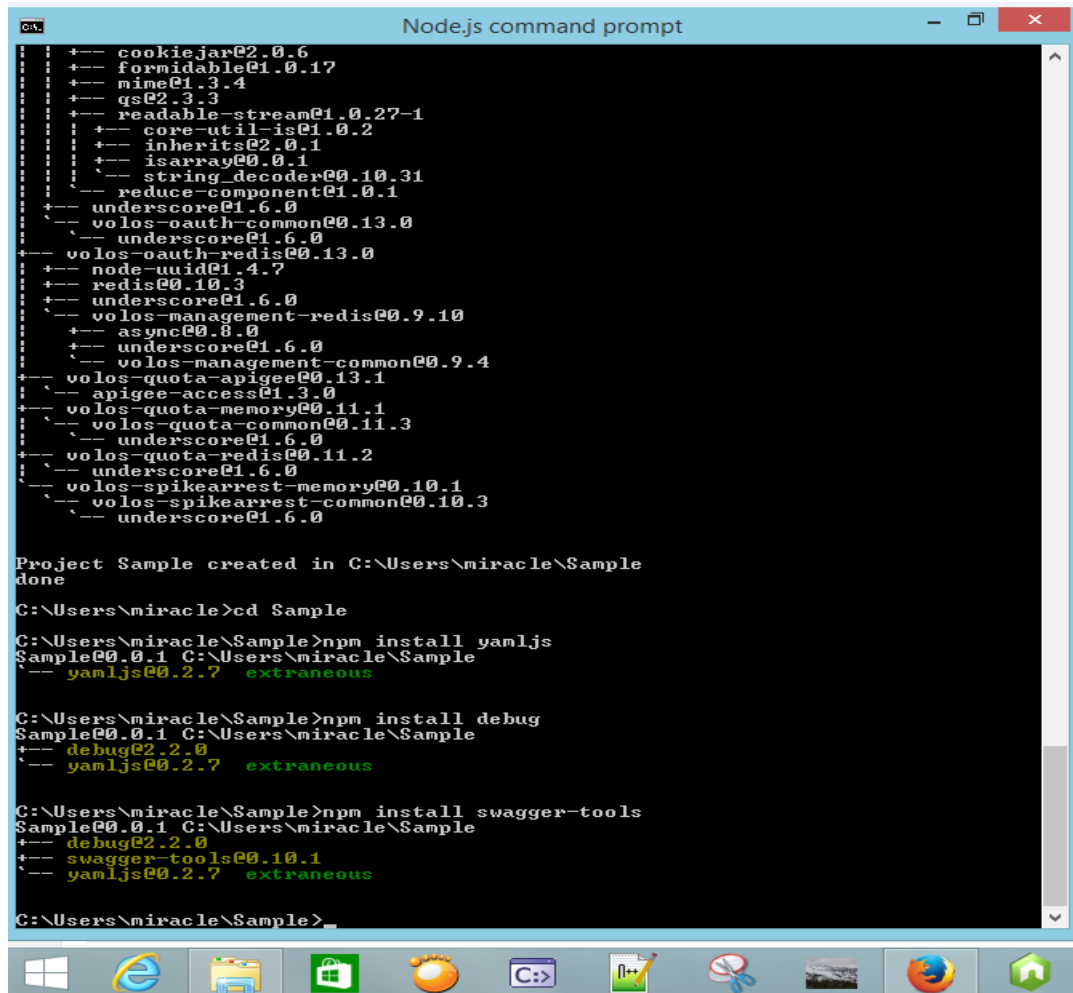
+--- is-typedarray@1.0.0
+--- isstream@0.1.2
+--- json-stringify-safe@5.0.1
+--- mime-types@2.1.10
+---   -- mime-db@1.22.0
+--- oauth-sign@0.8.1
+--- qs@6.1.0
+--- stringstream@0.0.5
+--- tough-cookie@2.2.2
+--- tunnel-agent@0.4.2
+--- semver@3.0.1
+--- superagent@1.8.3
+--- component-emitter@1.2.1
+--- cookie-jar@2.0.6
+--- formidable@1.0.17
+--- mime@1.3.4
+--- qs@2.3.3
+--- readable-stream@1.0.27-1
+---   -- core-util-is@1.0.2
+--- inherits@2.0.1
+--- isarray@0.0.1
+---   -- string_decoder@0.10.31
+--- reduce-component@1.0.1
+--- underscore@1.6.0
+--- volos-oauth-common@0.13.0
+---   -- underscore@1.6.0
+--- volos-oauth-redis@0.13.0
+--- node-uuid@1.4.7
+--- redis@0.10.3
+--- underscore@1.6.0
+--- volos-management-redis@0.9.10
+---   -- async@0.8.0
+---   -- underscore@1.6.0
+--- volos-management-common@0.9.4
+---   -- apigee-access@1.3.0
+--- volos-quota-apigee@0.13.1
+---   -- apigee-access@1.3.0
+--- volos-quota-memory@0.11.1
+---   -- volos-quota-common@0.11.3
+---   --   -- underscore@1.6.0
+--- volos-quota-redis@0.11.2
+---   -- underscore@1.6.0
+--- volos-spikearrest-memory@0.10.1
+---   -- volos-spikearrest-common@0.10.3
+---   --   -- underscore@1.6.0

Project Sample created in C:\Users\miracle\Sample
done

C:\Users\miracle>cd Sample
C:\Users\miracle\Sample>npm install yamljs
Sample@0.0.1 C:\Users\miracle\Sample
+--- yamljs@0.2.7 extraneous

C:\Users\miracle\Sample>npm install debug_
```

3.npm install swagger-tools.



```
Node.js command prompt

+-- cookiejar@2.0.6
+-- formidable@1.0.17
+-- mime@1.3.4
+-- qs@2.3.3
+-- readable-stream@1.0.27-1
+-- core-util-is@1.0.2
+-- inherits@2.0.1
+-- isarray@0.0.1
+-- string_decoder@0.10.31
+-- reduce-component@1.0.1
+-- underscore@1.6.0
+-- volos-oauth-common@0.13.0
+-- underscore@1.6.0
+-- volos-oauth-redis@0.13.0
+-- node-uuid@1.4.7
+-- redis@0.10.3
+-- underscore@1.6.0
+-- volos-management-redis@0.9.10
+-- async@0.8.0
+-- underscore@1.6.0
+-- volos-management-common@0.9.4
+-- volos-quota-apigee@0.13.1
+-- apigee-access@1.3.0
+-- volos-quota-memory@0.11.1
+-- volos-quota-common@0.11.3
+-- underscore@1.6.0
+-- volos-quota-redis@0.11.2
+-- underscore@1.6.0
+-- volos-spikearrest-memory@0.10.1
+-- volos-spikearrest-common@0.10.3
+-- underscore@1.6.0

Project Sample created in C:\Users\miracle\Sample
done

C:\Users\miracle>cd Sample

C:\Users\miracle\Sample>npm install yamajs
Sample@0.0.1 C:\Users\miracle\Sample
+-- yamajs@0.2.7 extraneous

C:\Users\miracle\Sample>npm install debug
Sample@0.0.1 C:\Users\miracle\Sample
+-- debug@2.2.0
+-- yamajs@0.2.7 extraneous

C:\Users\miracle\Sample>npm install swagger-tools
Sample@0.0.1 C:\Users\miracle\Sample
+-- debug@2.2.0
+-- swagger-tools@0.10.1
+-- yamajs@0.2.7 extraneous

C:\Users\miracle\Sample>
```

Step 5: Start the Project

Start the project by giving the command as follows:

```
npm project start
```

```

Nodejs command prompt

+--- cookiejar@2.0.6
+--- formidable@1.0.17
+--- mime@1.3.4
+--- qs@2.3.3
+--- readable-stream@1.0.27-1
+--- core-util-is@1.0.2
+--- inherits@2.0.1
+--- isarray@0.0.1
+--- string_decoder@0.10.31
+--- reduce-component@1.0.1
+--- underscore@1.6.0
+--- volos-oauth-common@0.13.0
+--- underscore@1.6.0
+--- volos-oauth-redis@0.13.0
+--- node-uuid@1.4.7
+--- redis@0.10.3
+--- underscore@1.6.0
+--- volos-management-redis@0.9.10
+--- async@0.8.0
+--- underscore@1.6.0
+--- volos-management-common@0.9.4
+--- volos-quota-api@0.13.1
+--- apigee-access@1.3.0
+--- volos-quota-memory@0.11.1
+--- volos-quota-common@0.11.3
+--- underscore@1.6.0
+--- volos-quota-redis@0.11.2
+--- underscore@1.6.0
+--- volos-spike-arrest-memory@0.10.1
+--- volos-spike-arrest-common@0.10.3
+--- underscore@1.6.0

Project Sample created in C:\Users\niracle\Sample
done
C:\Users\niracle>cd Sample
C:\Users\niracle\Sample>npm install yamajs
Sample@0.0.1 C:\Users\niracle\Sample
+--- yamajs@0.2.7 extraneous

C:\Users\niracle\Sample>npm install debug
Sample@0.0.1 C:\Users\niracle\Sample
+--- debug@2.2.0
+--- yamajs@0.2.7 extraneous

C:\Users\niracle\Sample>npm install swagger-tools
Sample@0.0.1 C:\Users\niracle\Sample
+--- debug@2.2.0
+--- swagger-tools@0.10.1
+--- yamajs@0.2.7 extraneous

C:\Users\niracle\Sample>npm project start_

```

```

Nodejs command prompt

+--- underscore@1.6.0

Project Sample created in C:\Users\niracle\Sample
done
C:\Users\niracle>cd Sample
C:\Users\niracle\Sample>npm install yamajs
Sample@0.0.1 C:\Users\niracle\Sample
+--- yamajs@0.2.7 extraneous

C:\Users\niracle\Sample>npm install debug
Sample@0.0.1 C:\Users\niracle\Sample
+--- debug@2.2.0
+--- yamajs@0.2.7 extraneous

C:\Users\niracle\Sample>npm install swagger-tools
Sample@0.0.1 C:\Users\niracle\Sample
+--- debug@2.2.0
+--- swagger-tools@0.10.1
+--- yamajs@0.2.7 extraneous

C:\Users\niracle\Sample>npm project start
Usage: npm <command>

where <command> is one of:
  access, add-user, adduser, apihelp, author, bin, bugs, c,
  cache, completion, config, ddp, dedupe, deprecate, dist-tag,
  dist-tags, docs, edit, explore, faq, find, find-dupes, get,
  help, help-search, home, i, info, init, install,
  install-test, issues, it, la, link, list, ll, ln, login,
  logout, ls, outdated, owner, pack, ping, prefix, prune,
  publish, r, rb, rebuild, remove, repo, restart, rm, root,
  run-script, s, se, search, set, show, shrinkwrap, star,
  stars, stop, t, tag, team, test, tst, un, uninstall,
  unlink, unpublish, unstar, up, update, upgrade, v, version,
  version, view, whoami

npm <cmd> -h      quick help on <cmd>
npm -l            display full usage info
npm faq           commonly asked questions
npm help <term>   search for help on <term>
npm help npm      involved overview

Specify configs in the ini-formatted file:
  C:\Users\niracle\npmrc
or on the command line via: npm <command> --key value
Config info can be viewed via: npm help config

npm@3.7.3 C:\Users\niracle\AppData\Roaming\npm\node_modules\npm
C:\Users\niracle\Sample>

```

Step 6:Edit the Project

we can edit the project by using command

a127 project edit.

The screenshot displays the Swagger Editor web application. The left pane shows the Swagger JSON configuration for a project named 'Hello World App'. The right pane provides a visual representation of the API, including the title, version, and a list of paths. The selected path is `/hello`, which is a GET endpoint. The description states it returns 'Hello' to the caller. A single query parameter named `name` is defined with a description of 'The name of the person to whom to say hello'. The response section shows a 200 status code for a successful call, returning a `HelloWorldResponse` object, and a default error response of type `ErrorResponse`.

```
1 swagger: "2.0"
2 info:
3   version: "0.0.1"
4   title: Hello World App
5   # during dev, should point to your local machine
6   host: localhost:10010
7   # basePath prefixes all resource paths
8   basePath: /
9   #
10  schemes:
11    # tip: remove http to make production-grade
12    - http
13    - https
14    # format of bodies a client can send (Content-Type)
15  consumes:
16    - application/json
17    # format of the responses to the client (Accepts)
18  produces:
19    - application/json
20  x-a127-config: {}
21  x-a127-services: {}
22  paths:
23    /hello:
24      # binds a127 app logic to a route
25      x-swagger-router-controller: hello_world
26      x-a127-apply: {}
27      get:
28        description: Returns 'Hello' to the caller
29        # used as the method name of the controller
30        operationId: hello
31        parameters:
32          - name: name
33            in: query
34            description: The name of the person to whom to say hello
35            required: false
36            type: string
37        responses:
38          "200":
39            description: Success
```

Hello World App

Version 0.0.1

Paths

`/hello`

GET /hello

Description
Returns 'Hello' to the caller

Parameters

Name	Located in	Description	Required	Schema
name	query	The name of the person to whom to say hello	No	string

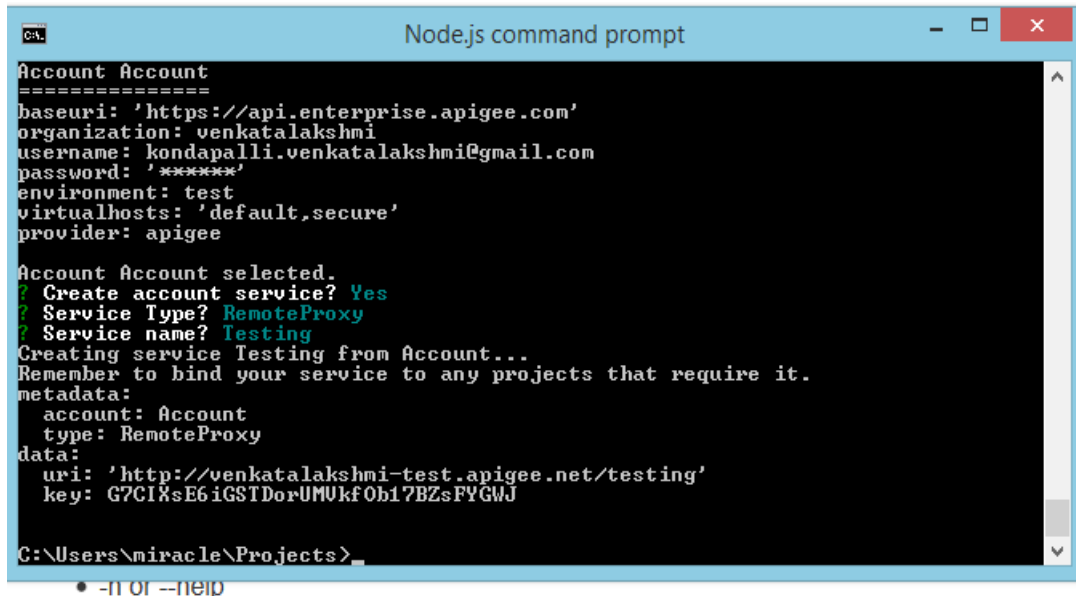
Responses

Code	Description	Schema
200	Success	▼ HelloWorldResponse string
default	Error	▼ ErrorResponse string

Try this operation

Step 7:Create an account

Here we can create apigee account.

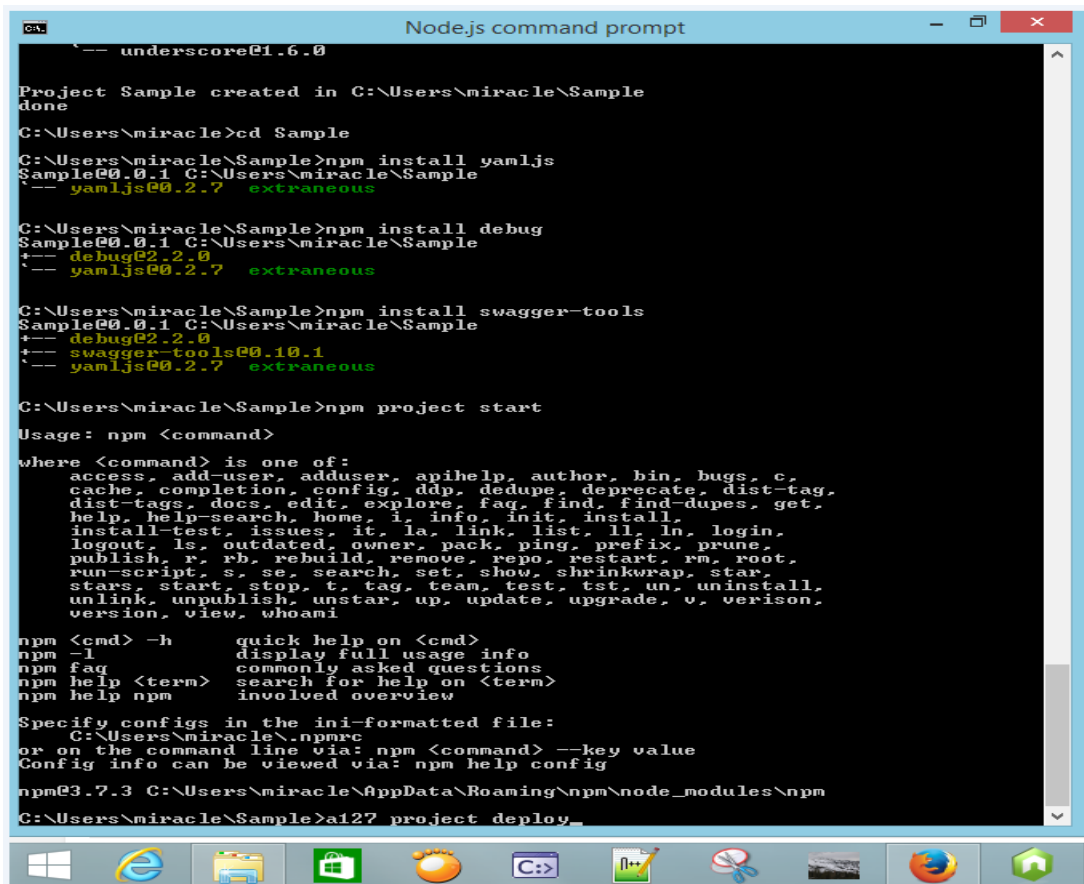


```
CA. Node.js command prompt
Account Account
=====
baseuri: 'https://api.enterprise.apigee.com'
organization: venkatalakshmi
username: kondapalli.venkatalakshmi@gmail.com
password: '*****'
environment: test
virtualhosts: 'default,secure'
provider: apigee

Account Account selected.
? Create account service? Yes
? Service Type? RemoteProxy
? Service name? Testing
Creating service Testing from Account...
Remember to bind your service to any projects that require it.
metadata:
  account: Account
  type: RemoteProxy
data:
  uri: 'http://venkatalakshmi-test.apigee.net/testing'
  key: G7CIXsE6iGSTDorUMUkfOb17BZsFYGWJ

C:\Users\miracle\Projects>
```

Step 8: Deploy the Project



```
Node.js command prompt

-- underscore@1.6.0

Project Sample created in C:\Users\miracle\Sample
done

C:\Users\miracle>cd Sample

C:\Users\miracle\Sample>npm install yamajs
Sample@0.0.1 C:\Users\miracle\Sample
-- yamajs@0.2.7 extraneous

C:\Users\miracle\Sample>npm install debug
Sample@0.0.1 C:\Users\miracle\Sample
+-- debug@2.2.0
-- yamajs@0.2.7 extraneous

C:\Users\miracle\Sample>npm install swagger-tools
Sample@0.0.1 C:\Users\miracle\Sample
+-- debug@2.2.0
+-- swagger-tools@0.10.1
-- yamajs@0.2.7 extraneous

C:\Users\miracle\Sample>npm project start

Usage: npm <command>

where <command> is one of:
access, add-user, adduser, apihelp, author, bin, bugs, c,
cache, completion, config, ddp, dedupe, deprecate, dist-tag,
dist-tags, docs, edit, explore, faq, find, find-dupes, get,
help, help-search, home, i, info, init, install,
install-test, issues, it, la, link, list, ll, ln, login,
logout, ls, outdated, owner, pack, ping, prefix, prune,
publish, r, rb, rebuild, remove, repo, restart, rm, root,
run-script, s, se, search, set, show, shrinkwrap, star,
stars, start, stop, t, tag, team, test, tst, un, uninstall,
unlink, unpublish, unstar, up, update, upgrade, v, verison,
version, view, whoami

npm <cmd> -h      quick help on <cmd>
npm -l           display full usage info
npm faq          commonly asked questions
npm help <term>  search for help on <term>
npm help npm     involved overview

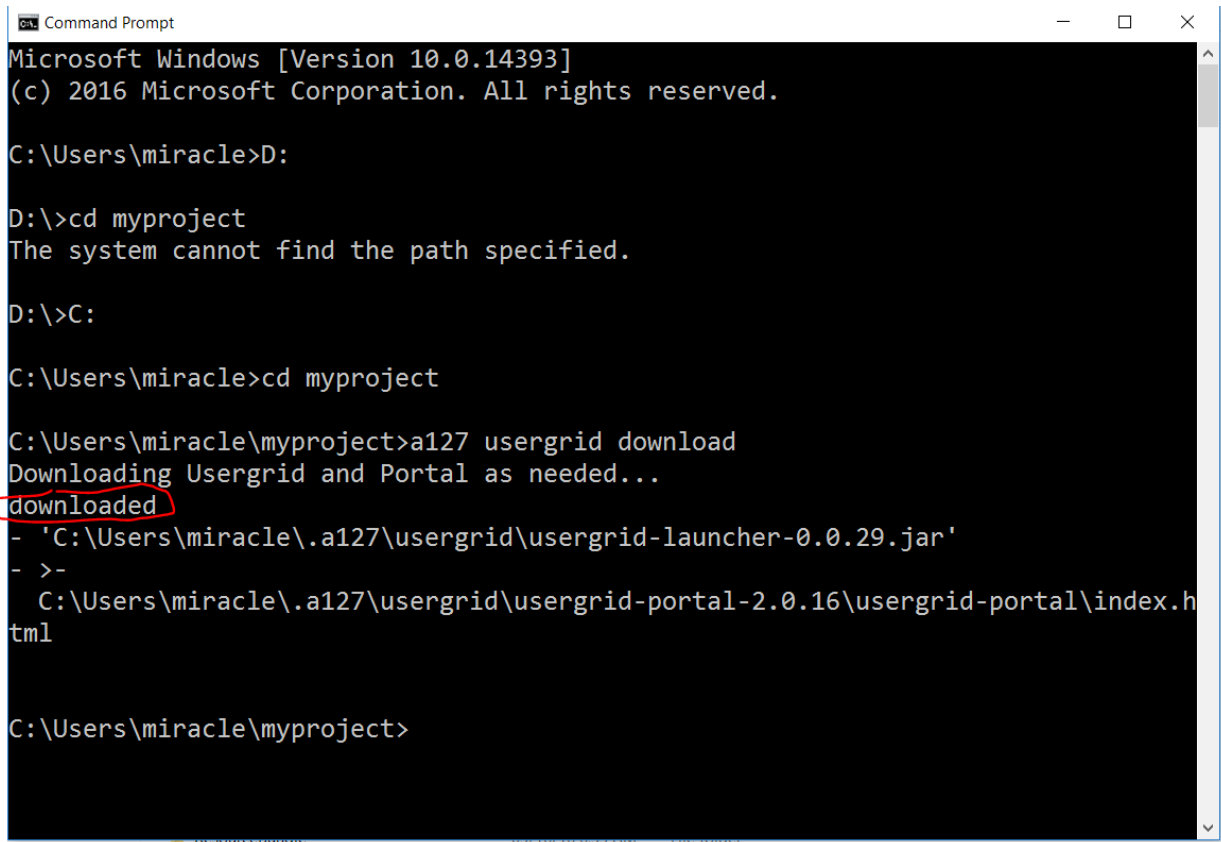
Specify configs in the ini-formatted file:
  C:\Users\miracle\.npmrc
or on the command line via: npm <command> --key value
Config info can be viewed via: npm help config

npm@3.7.3 C:\Users\miracle\AppData\Roaming\npm\node_modules\npm
C:\Users\miracle\Sample>a127 project deploy_
```

Step 9:Download the Usergrid

for usergrid run this command in cmd.

A127 usergrid download.



```
Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\miracle>D:

D:\>cd myproject
The system cannot find the path specified.

D:\>C:

C:\Users\miracle>cd myproject

C:\Users\miracle\myproject>a127 usergrid download
Downloading Usergrid and Portal as needed...
downloaded
- 'C:\Users\miracle\.a127\usergrid\usergrid-launcher-0.0.29.jar'
- >-
  C:\Users\miracle\.a127\usergrid\usergrid-portal-2.0.16\usergrid-portal\index.h
tml

C:\Users\miracle\myproject>
```

Step 10:

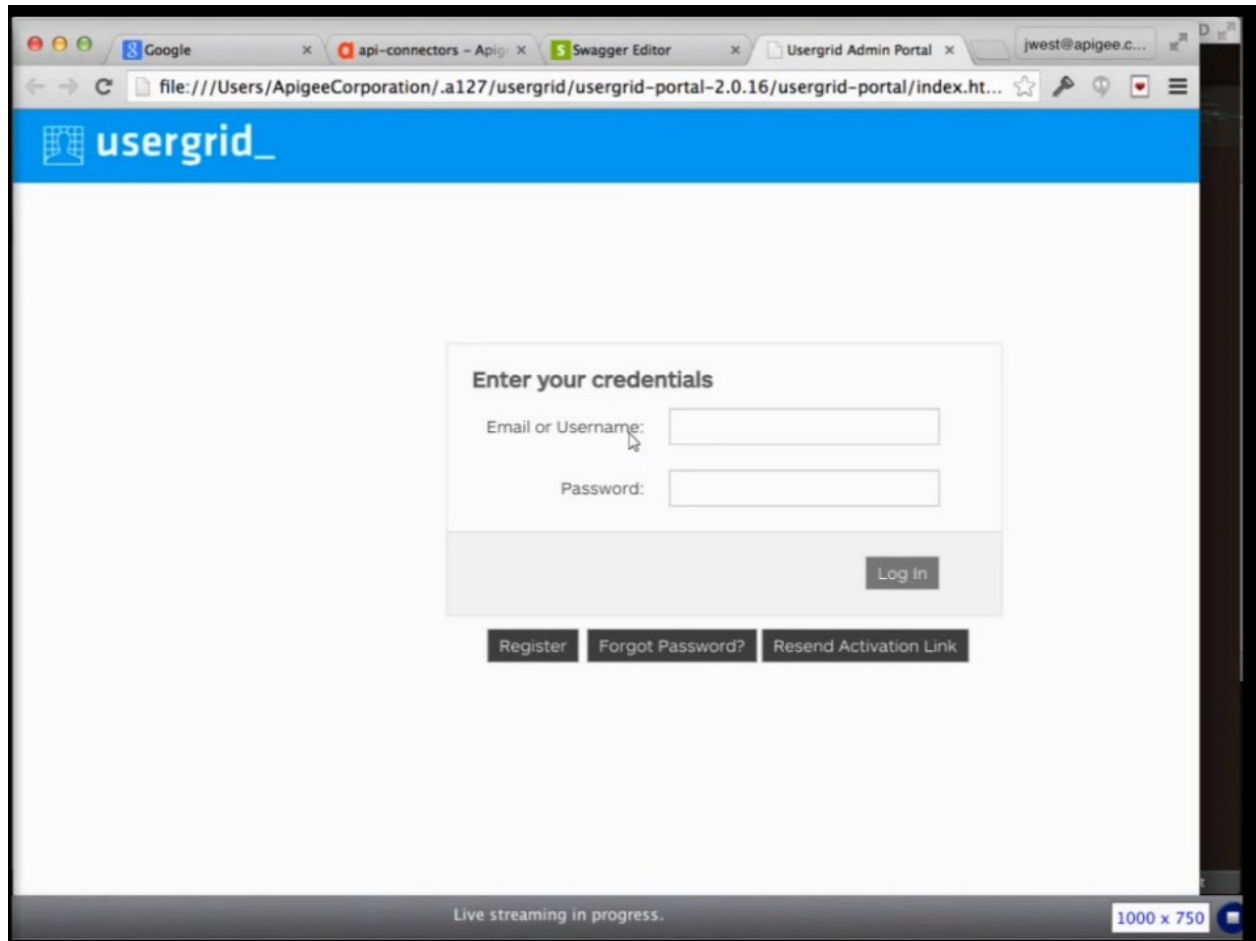
Start the usergrid

Step 11:Open the Usergrid Portal

open the usergrid portal

For usergrid portal run this command

a127 usergrid portal



Step 3:Login to the Usergrid

login to the usergrid with credentials.(appers when usergrid starts).

