Portal Build Instructions

This page describes how to build the ONAP Portal webapp and the ONAP Portal SDK webapp, and how to deploy webapps to a web server.
It does not cover the process of configuring a virtual machine from scratch.

Required Tools

The computer must have the following software packages installed:

1. Java
2. Maven (3.3.3+) currently 3.5.0
3. nodejs version >=4.x.x; download from https://nodejs.org/
4. node-gyp with all its requirements (e.g., Python v.2.7.x, GCC, …) as listed at https://github.com/nodejs/node-gyp
5. grunt-cli installed globally, download from https://github.com/gruntjs/grunt-cli
    a. To install: **npm install -g grunt-cli**
6. bower from http://bower.io/
    a. To install: **npm install -g bower**

Install 3rd Party Packages

1. In your git working copy, go to the directory **ecomp-portal-FE**
2. Clean out the npm cache by running this command:
   npm cache clean
3. Install all node and grunt dependencies listed in the package.json file by running this command:
   npm install
4. Install all client dependencies listed in the bower.json file by running this command:
   bower install

Get the Code

Clone the ecomp portal core repository from Gerri. The URL is something like this (replace 'your_id' of course):

  git clone http://gerrit.onap.org/r/portal

This should create a new folder with subfolders, some for the back-end web server components and others for the front-end pages and scripts:

Build and Deploy the ONAP Portal FE+BE Distribution

After all of the above steps have been performed successfully, use the following procedure to build and deploy the front-end and back-end distributions to a web server.

Build the FE distribution

In your git working copy, go to the directory ecomp-portal-FE and build the distribution by typing this command:

   grunt build --env=dev

Note that the "dev" argument here relies on the file **ecomp-portal-FE-os/client/configurations/dev.json**, which defines all API endpoints for this build.
You can duplicate this file, modify the endpoints and call it whatever you like.

Build the BE distribution

In your git working copy, go to the root directory and build the distribution by typing this command:

   mvn clean package

Configure the FE distribution

Before you build, configure your destination environment so the JavaScript minimization creates the correct back end (BE). This configuration is done in ecomp-portal-FE-os/client/configuration/dev.json (or any other file you want). For example:

```
{
        "api": {
        "userApps": "https://<yourHost>/ecomp_portal/api/userApps",
        "accountAdmins": "https://<yourHost>/ecomp_portal/api/accountAdmins",
        "availableApps": "https://<yourHost>/ecomp_portal/api/availableApps",
        "userProfile": "https://<yourHost>/ecomp_portal/api/userProfile",
        "queryUsers": "https://<yourHost>/ecomp_portal/api/queryUsers",
        "adminAppsRoles": "https://<yourHost>/ecomp_portal/api/adminAppsRoles"
        }
}
```

Also, copy the bower_components folder from ecomp-portal-FE-os to the folder ecomp-portal-FE-os/client then build as shown above:

grunt build --env=dev

This step will populate the folder ecomp-portal-FE-os/dist with a folder named public. Copy that public folder from **comp-portal-FE-os/dist/** to the folder **ecomp-portal-BE-os/target/ecompportal/** .

Deploy the ONAP Portal Web Application

Now upload the contents of the folder **ecomp-portal-BE-os/target/ecompportal** to the web server host, for example on <yourHost>, to **/<yourHost>/WebApps/dev/ECOMP_PORTAL/ecomp_portal** .

ⓘ   Note the difference between 'ecomp_portal' and 'ecompportal'! The final URL should have the context name ecomp_portal with an underscore.

Restart tomcat and visit the appropriate page; e.g., https://<yourHost>:8989/ECOMPPORTAL/login.htm