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Enterprise

# HPE Propel

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## Theming Customization

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# Propel Theming Customization

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# Expectations

Theming is a part of HPE Propel Jumpstart capability, and tutorial videos are available on HPE Live Network (HPLN) to explain what Jumpstart is and how to use it.

The current theming capability as described in this document should be considered as phase 1. It is needed to get the infrastructure in place for a dedicated theming service (UI & backend) to help push changes to Jumpstart apps. In later phases we'll focus on a dedicated UI to help with theming and branding.

Currently, each theme needs to be distributed to each application's bower_components. This document explains how to configure a theme for the Launchpad application. The same steps can be used for other HPE Propel applications, such as Shop, Support, or Search.

Additionally, since each application relies on a different set of components and versions, each theme needs to be compiled per application.

This means that each application can use different versions of both components and the propel-foundation-theme without any issues.

# Overview

HPE Propel supports theme customization via the Jumpstart framework that is used throughout its applications. More information about Jumpstart can be found on HPLN.

Mainly, style customizations are driven through theming modules. These theme modules can (and should) be generated through the Jumpstart Generator.

Once a theme module is made, it should be placed within a Jumpstart application and used to compile a theme that is available to the UI.

This document describes all manual steps required to apply a theme to the Launchpad application. In *Automated Procedure*, instructions are provided for how you can use Ansible automation to deploy your theme to all HPE Propel UI services.

# Requirements

At a minimum, you need to have HPE Propel 2.20.p1 (2.20 Patch 1) installed.

The following products must be available, installed, and configured before you can customize themes in Jumpstart applications:

(Essentially everything that is referenced in the *Jumpstart Overview* documentation)

- Install `node.js` - platform (for all Jumpstart libraries)
- Install `npm` - NodeJS library dependency manager

- Install bower - UI library dependency manager
- Install gulp - building library
- Install the Jumpstart Generator - scaffolding tool

# Theme Module

A theme module is a supported UI module in Jumpstart that helps define a new theme the application can build and use.

This module has a single file that allows changes to the styling of the application.

## Theme Module Structure

A theme module must consist of two files:

1. `bower.json` file
2. single `*.scss` file

The `bower.json` file should look as follows:

```
{
  "name": "my-theme",
  "version": "0.1.0",
  "keywords": [
    "jumpstart-theme-extended"              // *** helps Jumpstart apps recognize that
it's a theme module
  ],
  "dependencies": {
    "propel-foundation-theme": "^1.3.0"     // *** dependencies that are being
customized by this "my-theme"
  },
  "devDependencies": {},
  "ignore": [
    "**/.*",
    "node_modules",
    "bower_components",
    "test",
    "tests"
  ],
  "main": "**/*.scss"                       // *** identifies what scss files to use
for customization
}
```

If you used the generator, you should see a `public.api.scss` file that is similar to the listing below.

```
/* Propel Foundation Theme supported, public variables and their default values */

/* body */
/* ---------------------------------- */
$propel-body-bg-color:                #ffffff !default;
$propel-body-text-color:              #666666 !default;
$propel-primary-font-color:           #333333 !default;

/* header */
/* ---------------------------------- */
$propel-header-bg-color:              #ffffff !default;
$propel-header-text-color:            #666666 !default;

/* footer */
/* ---------------------------------- */
$propel-footer-bg-color:              #333333 !default;
$propel-footer-text-color:            #999999 !default;

/* panel */
/* ---------------------------------- */
$propel-panel-bg-color:               #ffffff !default;
$propel-panel-text-color:             #666666 !default;
$propel-panel-secondary-bg-color:     #f2f4f5 !default;
$propel-panel-secondary-text-color:   #666666 !default;
$propel-panel-footer-bg-color:        #d1d1d1 !default;
$propel-panel-footer-text-color:      #666666 !default;

/* colors */
/* ---------------------------------- */
$propel-primary:                      #01A982 !default;
$propel-secondary:                    #999999 !default;
$propel-success:                      #01A982 !default;
$propel-warning:                      #FF8D6D !default;
$propel-alert:                        #FF454F !default;
$propel-info:                         #2AD2C9 !default;
```

# Manual Procedure

## Theme Module Preparation

### Action user

All activities described below must be run as the `propel` user (or switch from `root` to `propel` with the following command: `# su - propel`).

### Internet Access

The binaries and HPE Propel components must be downloaded from the online Internet-based HPE Propel `npm` repositories; therefore, access to the HPE Propel server via the Internet is temporarily needed.

### Proxy Settings

Create or modify two environment files. Make sure to check the proxy settings because you need to connect to the Internet.

#### .npmrc

Add the following lines to the `~/.npmrc` file. (Create the file if it does not exist.)

```
proxy = http://web-proxy.example.com:8080
https-proxy = http://web-proxy.example.com:8080
@propel:registry = https://propelrepo.com:443/artifactory/api/npm/jumpstart
```

**Note 1**: This will download the NPM module `@propel/rss-msvc` from the Internet.

**Note 2**: This tells `npm` to go to HPE Propel's private `npm` repository for all `npm` modules name spaced with `@propel.propelrepo.com = [52.36.185.154]`

**Note 3**: Modify the `proxy` and `https-proxy` parameters to use your company's proxy server.

### .bowerrc

Add the following lines to the `~/.bowerrc` file. (Create the file if it does not exist.)

```
{
"resolvers": [
"bower-art-resolver"
],
"registry": "https://propelrepo.com:443/artifactory/api/bower/jumpstart-bower-virt",
"proxy": "http://web-proxy.eu.hpecorp.net:8080/",
"https-proxy": "http://web-proxy.eu.hpecorp.net:8080/"
}
```

**Note**: Modify the `proxy` and `https-proxy` parameters to use your company's proxy server.

Exit your session and log in again as the `propel` user to make sure the two environment files are loaded.

## Prepare installation directory

### Make a directory for global installations

```
# mkdir ~/.npm-global
```

### Configure npm to use the new directory path

```
# npm config set prefix '~/.npm-global'
```

### Update $PATH

Edit the '~/.bashrc' file, add the following line.

```
export PATH=~/.npm-global/bin:$PATH
```

Make the changes on the .bashrc file effective. Or, you can log in again as the `propel` user.

```
# source ~/.bashrc
```

## Get the Latest npm, yo, bower and gulp Components

```
# npm install -g npm
# npm install -g yo
# npm install -g bower bower-art-resolver
```

```
# npm install -g gulp
```

### Install Propel Jumpstart Yeoman Generator

This will download the latest generator from the HPE Propel `npm` repository. This update can take a while to complete.

```
# npm install -g @propel/generator-jumpstart
```

# Theme Module Generator

An initial theme module can easily be scaffolded through the Jumpstart Generator.

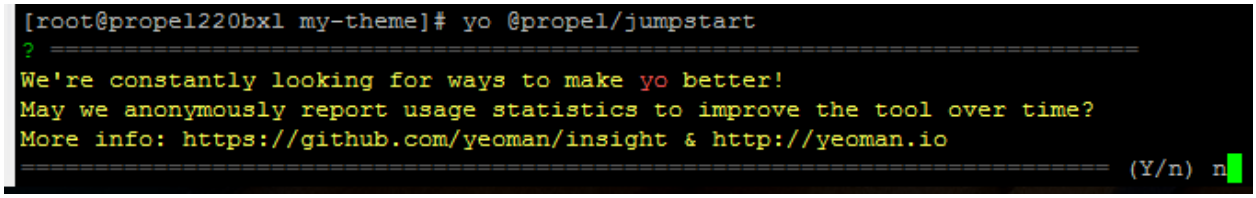
1. On the HPE Propel server, log in as the `propel` user (or switch from `root` to `propel` with the following command: `# su - propel`).
2. Create a directory within HPE Propel's home directory (`/home/propel`) for your theme and navigate to it:

   ```
   # cd
   # mkdir my-theme
   # cd my-theme
   ```

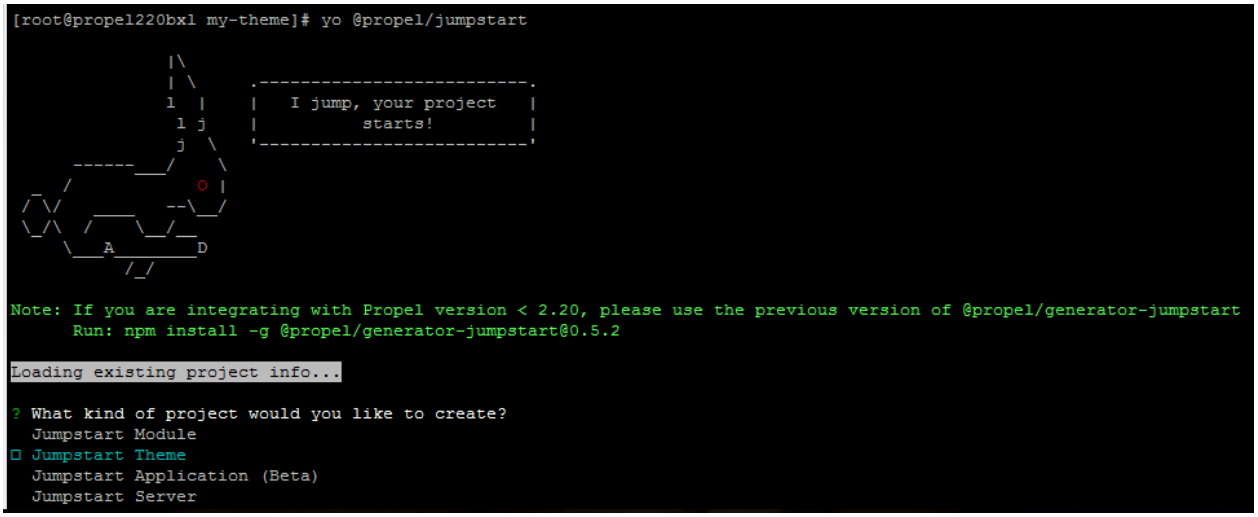
3. Run the yeoman Jumpstart Generator

   ```
   # yo @propel/jumpstart
   ```

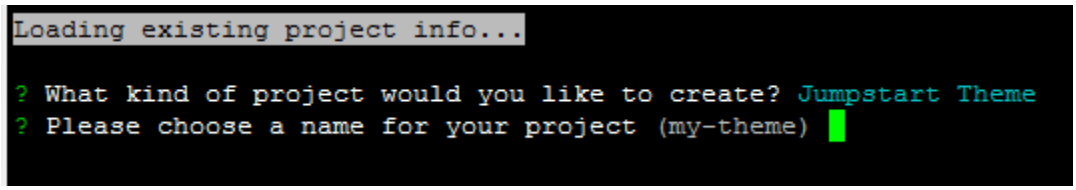
   **Note**: Reply "no" to the usage statistics:

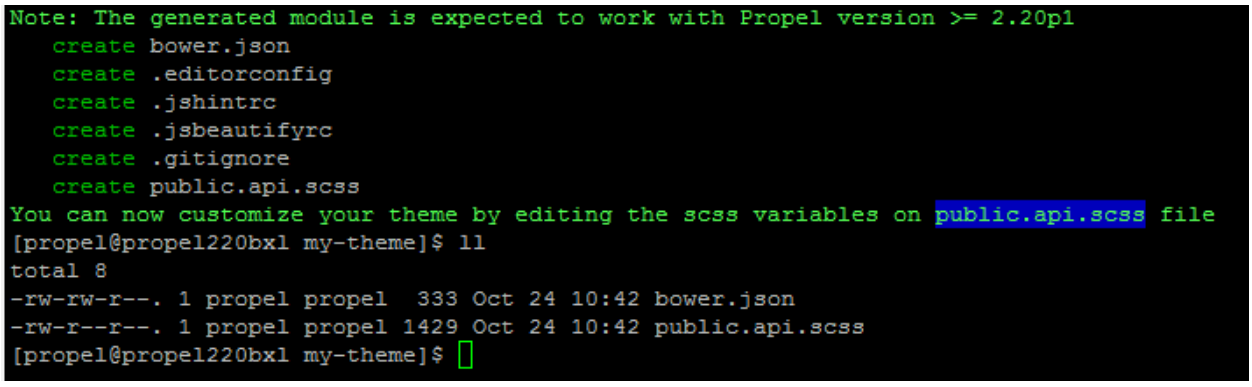
4. You should see a command-line Interface for creating the Jumpstart servers, modules, and servers. (See below for a screenshot.)




5. Select "Jumpstart Theme" and press **Enter**.
6. Provide a name (defaults to name of directory).




7. The generator will then scaffold your theme module and trigger a bower install within the directory.
8. That's It! The file/directory structure should look similar to below:




# Customize the New HPE Propel Theme

Edit the `my-theme/public.api.scss` file and you can change the colors of the parameters that have been exposed. For example, you can change the background color and the text color. See the examples in *Color Mapping in the HPE Propel Launchpad Interface*.

# Build the New HPE Propel Theme

Copy the `my-theme` module into your target HPE Propel Jumpstart application. This example describes how theming is applied to the Launchpad application. For example, you can copy it into `/opt/hp/propel/launchpad/bower_components` if you want to apply this theme to the Launchpad application.

**Note:** You have to do this for all HPE Propel Jumpstart applications where you want to apply the theme.

```
# cp -rf /home/propel/my-theme /opt/hp/propel/launchpad/bower_components
```

The following instructions are for repackaging the web content for the HPE Propel Jumpstart application (for example, Launchpad).

```
# cd /opt/hp/propel/launchpad
# npm install @propel/gulp-jumpstart-web-packager
# npm install gulp
# mv dist dist.bak
```

**Note**: For details about repackaging the web content using the `@propel/gulp-jumpstart-web-packager`, please refer to the HPE Propel Jumpstart tutorial on HPLN.

Backup the existing `gulpfile.js` file:

```
# cd /opt/hp/propel/launchpad
# mv gulpfile.js gulpfile.js.bak
```

Create a new `gulpfile.js` under `/opt/hp/propel/launchpad` and add the following content:

```
'use strict';
require('@propel/gulp-jumpstart-web-packager')();
```

Now link the theme:

```
# cd /home/propel/my-theme
# bower link
```

```
[propel@propel220bxl my-theme]$ bower link
bower                    invalid-meta The "main" field cannot contain globs (example: "*.js")
bower                    link /home/propel/.local/share/bower/links/my-theme > /home/propel/my-theme
```

```
# cd /opt/hp/propel/launchpad
# bower link my-theme
```

```
[propel@propel220bxl launchpad]$ bower link my-theme
bower propel-foundation-theme#^1.3.0       not-cached art://propel-foundation-theme/propel-foundation-theme#^1.3.0
bower propel-foundation-theme#^1.3.0          resolve art://propel-foundation-theme/propel-foundation-theme#^1.3.0
bower propel-foundation-theme#^1.3.0     invalid-meta The "main" field cannot contain globs (example: "*.js")
bower propel-foundation-theme#^1.3.0     invalid-meta The "main" field cannot contain globs (example: "*.js")
bower propel-foundation-theme#^1.3.0     invalid-meta The "main" field cannot contain globs (example: "*.js")
bower propel-foundation-theme#^1.3.0     invalid-meta The "main" field has to contain only 1 file per filetype; found multiple .js files: ["app/in
bower propel-foundation-theme#^1.3.0        resolved art://propel-foundation-theme/propel-foundation-theme#1.4.13
bower propel-foundation-theme#^1.3.22         cached art://propel-foundation-theme/propel-foundation-theme#1.4.13
bower propel-foundation-theme#^1.3.22       validate 1.4.13 against art://propel-foundation-theme/propel-foundation-theme#^1.3.22
bower propel-foundation-theme#^1.2.2          cached art://propel-foundation-theme/propel-foundation-theme#1.4.13
bower propel-foundation-theme#^1.2.2        validate 1.4.13 against art://propel-foundation-theme/propel-foundation-theme#^1.2.2
bower propel-foundation-theme#^1.4.0          cached art://propel-foundation-theme/propel-foundation-theme#1.4.13
bower propel-foundation-theme#^1.4.0        validate 1.4.13 against art://propel-foundation-theme/propel-foundation-theme#^1.4.0
bower propel-foundation-theme#^1.3.13         cached art://propel-foundation-theme/propel-foundation-theme#1.4.13
bower propel-foundation-theme#^1.3.13       validate 1.4.13 against art://propel-foundation-theme/propel-foundation-theme#^1.3.13
bower angular-loading-bar           extra-resolution Unnecessary resolution: angular-loading-bar#0.6.0
bower angular-ui-utils              extra-resolution Unnecessary resolution: angular-ui-utils#keypress-0.2.3
bower angulartics-google-analytics  extra-resolution Unnecessary resolution: angulartics-google-analytics#0.1.3
bower external-linking              extra-resolution Unnecessary resolution: external-linking#1.0.1
bower modernizr                     extra-resolution Unnecessary resolution: modernizr#2.8.3
bower ngInfiniteScroll              extra-resolution Unnecessary resolution: ngInfiniteScroll#1.2.1
bower propel-analytics              extra-resolution Unnecessary resolution: propel-analytics#1.0.0
bower propel-carousel               extra-resolution Unnecessary resolution: propel-carousel#2.0.3
bower propel-dark-theme             extra-resolution Unnecessary resolution: propel-dark-theme#1.0.0
bower propel-navigator              extra-resolution Unnecessary resolution: propel-navigator#1.0.1
bower propel-notification-ui        extra-resolution Unnecessary resolution: propel-notification-ui#1.5.16
bower propel-search                 extra-resolution Unnecessary resolution: propel-search#2.1.3
bower propel-widget                 extra-resolution Unnecessary resolution: propel-widget#0.1.3
bower rss-client                    extra-resolution Unnecessary resolution: rss-client#1.0.1
bower smchat-connector              extra-resolution Unnecessary resolution: smchat-connector#0.1.6
bower splash-page                   extra-resolution Unnecessary resolution: splash-page#1.0.3
bower                                  link /opt/hp/propel/launchpad/bower_components/my-theme > /home/propel/.local/share/bower/links/my-theme
[propel@propel220bxl launchpad]$
```

Repackage the web content (which will package the new `my-theme` theme) by running the following command from `/opt/hp/propel/launchpad`:

```
# gulp dist
```

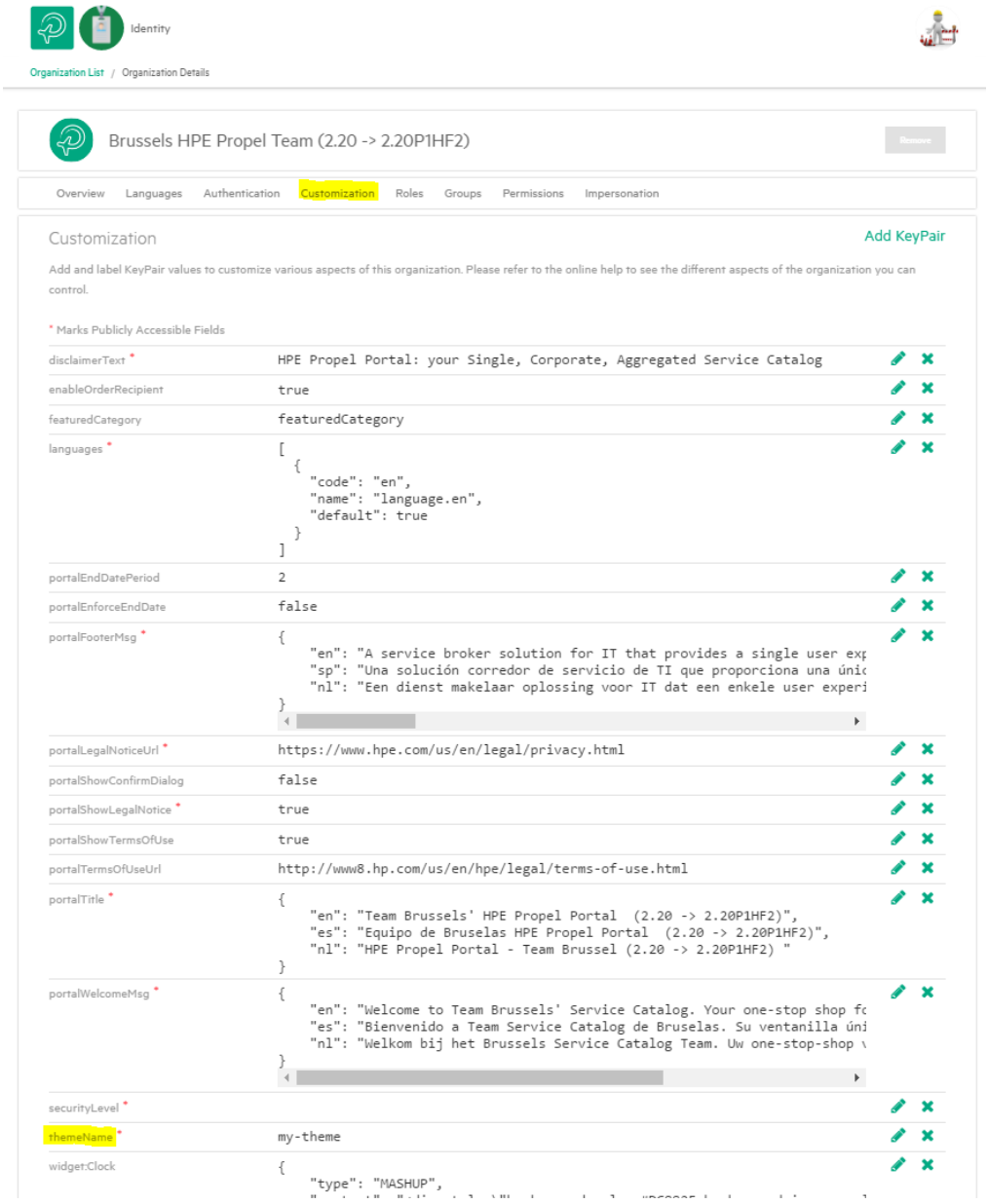
```
[propel@propel220bxl launchpad]$ gulp dist
[11:00:51] Using gulpfile /opt/hp/propel/launchpad/gulpfile.js
[11:00:51] Starting 'locales.dist'...
[11:00:54] Starting 'assets.dist'...
[11:00:54] Starting 'clean.dist.js'...
[11:00:54] Starting 'clean.dist.styles'...
[11:00:54] Finished 'clean.dist.styles' after 55 ms
[11:00:54] Starting 'styles.dist'...
[11:00:56] Finished 'clean.dist.js' after 1.94 s
[11:00:56] Starting 'scripts.dist'...
[11:00:59] Finished 'assets.dist' after 4.49 s
[11:01:02] Finished 'locales.dist' after 10 s
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 8 files into theme.scss.
[11:01:05] gulp-inject 8 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 8 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 8 files into theme.scss.
[11:01:05] gulp-inject Nothing to inject into theme.scss.
[11:01:05] gulp-inject Nothing to inject into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 1 files into theme.scss.
[11:01:05] gulp-inject 8 files into theme.scss.
[11:01:05] gulp-inject 8 files into theme.scss.
[11:01:05] gulp-inject 5 files into styles.html.
[11:01:05] Finished 'styles.dist' after 11 s
[11:01:05] gulp-inject 274 files into scripts.html.
[11:01:37] Finished 'scripts.dist' after 41 s
[11:01:37] Starting 'build.dist'...
[11:01:37] Finished 'build.dist' after 7.26 ms
[11:01:37] Starting 'dist'...
[11:01:37] Finished 'dist' after 11 µs
```

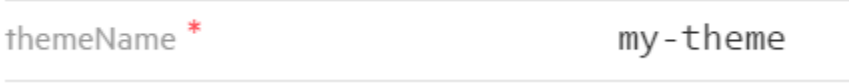
Restart Launchpad

```
# sudo systemctl restart launchpad
```

# Apply the New HPE Propel Theme

Use the HPE Propel Identity application to associate the new theme to an organization. Under the **Customization** tab (for a selected organization), set the `themeName` attribute to the new theme module name. In this example, it is set to “my-theme.”



**Note**: If you need to modify something in the SCSS file (other color scheme), just modify the SCSS file (in `/home/propel/my-theme`) and run `gulp dist` again from the `Launchpad` directory and restart the corresponding service.

# Automated Procedure

To simplify the use of theming, a large amount of the steps described in the manual procedure above have been automated in Ansible scripts.

The scripts can be used to deploy theming on both a single node HPE Propel and a distributed HPE Propel (DP) environment.

For DP environments all actions must be performed from the load balancer (LB) server unless stated otherwise. The assumption is made that all necessary configuration was done to allow SSH connections with the `propel` user between the LB and HPE Propel Cluster Nodes in the HPE Propel Cluster as described in the *Distributed HPE Propel Deployment Guide*.

# Preparation

## Extract Scripts

On the HPE Propel server, log in as the `propel` user (or switch from `root` to `propel` with the following command: `# su - propel`).

Copy `theme.zip` to the `/opt/hp/propel/contrib` folder. (Use an SCP program to move the zip container to your HPE Propel server.)

Extract the `theme.zip` archive:

```
# cd /opt/hp/propel/contrib
# unzip theme.zip
# cd /opt/hp/propel/contrib/theme
```

## Verify hosts File

Verify the content of the `/opt/hp/propel/contrib/theme/hosts.default` file. For HPE Propel single node environments the file should contain “localhost”; for DP environments. This file should contain the FQDN of all HPE Propel Cluster Nodes.

Example Single Node Propel:

```
[theme_hosts]
localhost
```

Example DP:

```
[theme_hosts]
propel-cluster-node1.example.net
```

```
propel-cluster-node2.example.net
```

### Set Proxy

Modify the `proxy` value in `/opt/hp/propel/contrib/theme/group_vars/theme_hosts` and apply your company's proxy server.

# Running the scripts

## Execution of the First Script

The `1_theming_install.yml` script performs the following actions:

- Install all needed components.
- Make a backup named `dist.bac` of all the `dist` folders located in the application directories.
- Create a `.bowerrc` file.
- Create a `.npmrc` file.
- Create a `/opt/hp/propel/custom-theme` directory in which the new theme can be generated.

The script execution time is approximately 50 minutes.

1. Make sure you are logged in as the `propel` user.
2. Go to the location where the scripts were extracted:

   ```
   # cd /opt/hp/propel/contrib/theme
   ```

3. Start the script with the appropriate command. (At the beginning of the script, it prompts for the `propel` user's password.)

   Single Node:

   ```
   # ansible-playbook -c local 1_theming_install.yml -u propel
   --ask-become-pass
   ```

   DP:

   ```
   # ansible-playbook 1_theming_install.yml -u propel -c paramiko
   --ask-become-pass
   ```

## Generation of the New Theme Module

1. Make sure you are logged in as the `propel` user.
   **For DP these steps need to be executed with the `propel` user on each of the Propel Cluster**

**Nodes**

2. Go to the custom-theme directory that was created by the `1_theming_install.yml` script in the previous step:

   ```
   # cd /opt/hp/propel/custom-theme
   ```

3. Follow the instructions described in *Theme Module Generator* starting from point 2.

Edit the `custom-theme/public.api.scss` file and you can change the colors of the parameters that have been exposed. For example, you can change the background color and the text color. See the examples in *Color Mapping in the HPE Propel Launchpad Interface*.

## Execution of the Second Script

The `2_theming_install_part2.yml` script performs following actions:

- Stop HPE Propel
- Copy the custom-theme folder to the application folders
- Generate bower links
- Rebuild web packages
- Start HPE Propel

1. Make sure you are logged in as the `propel` user.
   **For DP the these steps need to be executed with the `propel` user on the load balancer**

2. Go to the location where the scripts were extracted:

   ```
   # cd /opt/hp/propel/contrib/theme
   ```

3. Start the script with the appropriate command. (At the beginning, the script prompts for the `propel` user's password.)

   Single Node:

   ```
   # ansible-playbook -c local 2_theming_install_part2.yml -u propel
   --ask-become-pass
   ```

   DP:

   ```
   # ansible-playbook 2_theming_install_part2.yml -u propel -c paramiko
   --ask-become-pass
   ```

4. Follow the instructions described in *Apply the New HPE Propel Theme* to associate the new theme to an organization.

## Subsequent Theme Changes

In case you need to adapt some of the colors at a later time, simply modify the `/opt/hp/propel/custom-theme/public.api.scss` file and execute the `3_theming_repackaging.yml` script, per the steps below.

1. Make sure you are logged in as the `propel` user

2. Go to the location where the scripts were extracted:

   ```
   # cd /opt/hp/propel/contrib/theme
   ```

3. Start the script with the appropriate command. (At the beginning, the script prompts for the `propel` user's password)

   Single Node:

   ```
   # ansible-playbook -c local 3_theming_repackaging.yml -u propel
   --ask-become-pass
   ```

   DP:

   ```
   # ansible-playbook 3_theming_repackaging.yml -u propel -c paramiko
   --ask-become-pass
   ```

# Color Mapping in the HPE Propel Launchpad Interface

The following example shows the mapping of color codes that are defined in the CSS in the Launchpad interface. The example is based on the `public.api.scss` definition below:

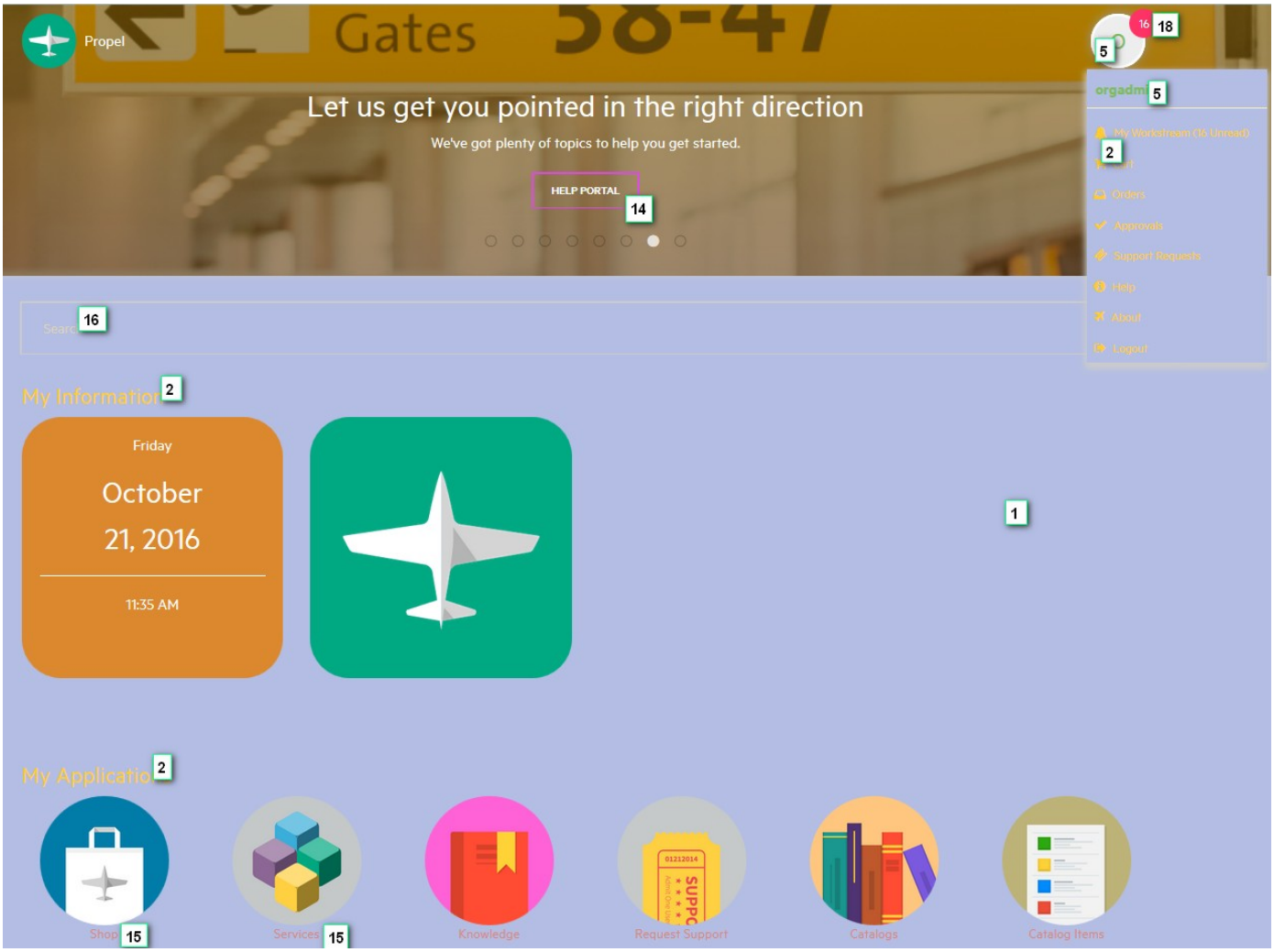
```
/* Propel Foundation Theme supported, public variables and their default
values */

/* body */
/* ----------------------------------- */
$propel-body-bg-color:                #b4bee4 !default;
$propel-body-text-color:              #ffcc33 !default;
$propel-primary-font-color:           #fbf94d !default;

/* header */
/* ----------------------------------- */
$propel-header-bg-color:              #b4bee4 !default;
$propel-header-text-color:            #7cbc57 !default;

/* footer */
/* ----------------------------------- */
$propel-footer-bg-color:              #3efac3 !default;
$propel-footer-text-color:            #379d7f !default;

/* panel */
/* ----------------------------------- */
$propel-panel-bg-color:               #2ebbfb !default;
$propel-panel-text-color:             #217ba3 !default;
$propel-panel-secondary-bg-color:     #ff6033 !default;
$propel-panel-secondary-text-color:   #5e6688 !default;
$propel-panel-footer-bg-color:        #4f3af6 !default;
$propel-panel-footer-text-color:      #c980f2 !default;

/* colors */
/* ----------------------------------- */
$propel-primary:                      #df4ae7 !default;
$propel-secondary:                    #d98880 !default;
$propel-success:                      #a6acaf !default;
$propel-warning:                      #996633 !default;
$propel-alert:                        #ff3366 !default;
$propel-info:                         #ff0000 !default;
```

Color correspondence:

```
/* Propel Foundation Theme supported, public variables and their default values */

/* body */
/* ------------------------------------ */
$propel-body-bg-color:            #b4bee4 !default;
$propel-body-text-color:          #ffcc33 !default;
$propel-primary-font-color:       #fbf94d !default;
/* header */
/* ------------------------------------ */
$propel-header-bg-color:          #cdfb4D !default;

$propel-header-text-color:        #7cbc57 !default;
/* footer */
/* ------------------------------------ */
$propel-footer-bg-color:          #3efac3 !default;
$propel-footer-text-color:        #379d7f !default;


/* panel */
/* ------------------------------------ */
$propel-panel-bg-color:           #2ebbfb !default;
$propel-panel-text-color:         #217ba3 !default;
$propel-panel-secondary-bg-color:   #ff6033 !default;

$propel-panel-secondary-text-color:  #5e6688 !default;
$propel-panel-footer-bg-color:     #4f3af6 !default;
$propel-panel-footer-text-color:    #c980f2 !default;

/* colors */
/* ------------------------------------ */
$propel-primary:                #df4ae7 !default;
$propel-secondary:               #d98880 !default;
$propel-success:                #a6acaf !default;
$propel-warning:                 #996633 !default;
$propel-alert:                  #ff3366 !default;
$propel-info:                   #ff0000 !default;
```

Propel welcome screen:

Propel Launchpad:



My Workstream panel:

My Workstream
2
8
Unread (16)
Mark all read
See All
Support Request #PT00048
Your support request for item #PT00048 is being fulfilled.
Oct 13, 2016
Support Request #PT00045
Your support request for item #PT00045 is being fulfilled.
Sep 28, 2016
10
Support Request #PT00044
15
15
Your support request for item #PT00044 is being fulfilled.
15
Support Request #PT00043
Your support request for item #PT00043 is being fulfilled.
Sep 28, 2016
Support Request #PT00004
Your support request for item #PT00004 is being fulfilled.
Sep 26, 2016
All Feeds
My Workstream
Manage Organization Announcements
Organization Announcements

Learn more at

hpe.com/software/propel

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December 2015