NGINX Buildpack

This topic describes how to push your NGINX app to Cloud Foundry and how to configure your NGINX app to use the NGINX buildpack.

Push an App

If your app contains an nginx.conf file, Cloud Foundry automatically uses the NGINX buildpack when you run of push to deploy your app.

If your Cloud Foundry deployment does not have the NGINX buildpack installed or the installed version is outdated, run cf push YOUR-APP -b https://github.com/cloudfoundry/nginx-buildpack.git to deploy your app with the current buildpack. Replace YOUR-APP with the name of your app.

For example:

\$ cf push my-app -b https://github.com/cloudfoundry/nginx-buildpack.git

Configure NGINX

We recommend that you use the default NGINX directory structure for your NGINX webserver. You can view this directory structure in the nginx-buildpack repository in GitHub.

The NGINX webserver setup includes the following:

- A root folder for all static web content
- A MIME type configuration file
- An NGINX configuration file
- A buildpack.yml YAML file that defines the version of NGINX to use. As an example, see buildpack.yml of in the Cloud Foundry NGINX Buildpack repository in GitHub.

You should make any custom configuration changes based on these default files to ensure compatibility with the buildpack.

Create the nginx.conf File

Use the templating syntax when you create an $\boxed{\text{nginx.conf}}$ file. This templating syntax loads modules and binds to ports based on values known at launch time.

Port

Use {{port}} to set the port to listen on. At launch time, {{port}} will interpolate in the value of SPORT.

```
Note: You must use [{{port}}] in your nginx.conf file.
```

For example, to set an NGINX server to listen on \$PORT , include the following in your nginx.conf file:

```
server {
  listen {{port}}};
```

Environment Variables

To use an environment variable, include [{env "YOUR-VARIABLE"}}. Replace YOUR-VARIABLE with the name of an environment variable. At staging and at launch, the current value of the environment variable is retrieved.

 $\label{thm:conf} \begin{tabular}{ll} For example, include the following in your $$ nginx.conf $$ file to enable or disable GZipping based on the value of $$ GZIP_DOWNLOADS : $$ and $$ and $$ file to enable or disable GZipping based on the value of $$ GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZipping based on the value of $$ GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable or disable GZIP_DOWNLOADS : $$ and $$ file to enable OX : $$ file to enable$

gzip {{env "GZIP_DOWNLOADS"}};

- If you set GZIP_DOWNLOADS to off, NGINX does not GZip files.
- If you set GZIP_DOWNLOADS to on , NGINX GZips files.

Unescaped Environment Variables

To use unescaped environment variables, add an array of environment variable names to the buildpack.ymi . See the following example:

nginx:
version: stable
plaintext_env_vars:
- "OVERRIDE"

In this example, the OVERRIDE environment variable can contain $_{.json}$ content without being $_{html}$ escaped. Ensure that you properly quote such variables to appear as strings in the $_{nginx.conf}$ file.

Loading Dynamic Modules

To load an NGINX module, use the following syntax in your app's nginx.conf file:

{{module "MODULE-NAME"}}

If you have provided a module in a modules directory located at the root of your app, the buildpack instructs NGINX to load that module. If you have not provided a module, the buildpack instructs NGINX to search for a matching built-in module.

As of v0.0.5 of the buildpack, the ngx stream module is available as a built-in module.

For example, to load a custom module named ngx_hello_module , provide a $modules/ngx_hello_module.so$ file in your app directory and add the following to the top of your nginx.conf file:

{{module "ngx_hello_module"}}

To load a built-in module like $\boxed{ngx_stream_module}$, add the following to the top of your $\boxed{nginx.conf}$ file. You do not need to provide an $\boxed{ngx_stream_module.so}$ file:

 $\{\{module \ "ngx_stream_module"\}\}$

 $module\ relative\ to\ the\ location\ of\ your \ \boxed{nginx.conf}\ file.\ For\ example: \ \boxed{load_module\ some_module_dir/my_module.so}$

Note: To name your modules directory something other than <code>modules</code>, use the NGINX <code>load_module</code> directive, providing a path to the

Buildpack Support

The following resources can assist you when using the NGINX buildpack or when developing your own NGINX buildpack:

- NGINX Buildpack Repository in GitHub: Find more information about using and extending the NGINX buildpack in the NGINX buildpack of GitHub repository.
- Release Notes: Find current information about this buildpack on the NGINX buildpack release page C* in GitHub.
- Slack: Join the #buildpacks channel in the Cloud Foundry Slack community ...