# Configuring Nginx with ColdFusion

Nginx is a free, open-source, high-performance HTTP server and reverse proxy, as well as an IMAP/POP3 proxy server. It can now be configured to serve ColdFusion applications.

The provided binaries are for the Linux 64-bit platform and has been tested on RHEL 7 and Ubuntu 16.04. These connector binaries / utilities are intended for prerelease users, and should not be used in production.

Nginx requires modules to be pre-packaged, unlike Apache, which allows modules to be dynamically loaded post installation. Connector configurations in ColdFusion rely on the AJP connector – a module not provided in Nginx by default. To facilitate seamless configurations, Adobe is providing Nginx binaries in the form of an installer for the Linux 64-bit platform, which includes pre-packaged AJP modules. The installer also bundles the updated connector binary.

The Nginx installer can be download here.

MD5 Checksum: 3c1244af4a473a6e6e67db6b5d42de8a

#### Prerequisites

Adobe provides the Nginx web-server with all the dependencies baked in. It can be downloaded, installed and configured with ColdFusion 2016.

## **Installing Nginx**

- 1. Execute ./nginxinstall.bin to install Nginx.
- 2. Enter the installation directory when prompted. The default installation directory is /opt/nginx.
  - If the specified installation directory coincides with a pre-existing installation of Nginx, the binaries in the sbin directory may be overwritten.
- 3. Enter the port for Nginx when prompted. The port defaults to the first available free port, starting from port 80.
- 4. Review the "Pre-Installation Summary", before proceeding with the installation.
- 5. The installer automatically starts Nginx post installation. To manually start / stop / reload Nginx use the <Nginx\_Installation\_directory>/sbin/nginx.sh script.

### Modifying the ColdFusion installation

Before proceeding to configure Nginx with ColdFusion 2016, follow the steps below to replace the wsconfig.jar at <CF\_Installation\_directory>/cfusion/runtime/lib/ with the wsconfig.jar bundled with the Nginx installer.

- Backup the original wsconfig.jar at the following location:
   <CF\_Installation\_directory>/cfusion/runtime/lib/

## Configuring the Connector

The installed Nginx is now ready to be configured with ColdFusion. The steps are listed below and are identical to the steps followed in configuring IIS / Apache connectors.

- Navigate to <CF\_Installation\_directory>/cfusion/runtime/bin/
- 2. Execute the following command to configure Nginx:
  wsconfig -ws nginx -dir <Nginx\_Installation\_directory>/conf

Execute the following command to view other options: wsconfig -help

# Serving CFM files from Nginx

The configuration is now all setup to serve ColdFusion applications from Nginx.

To test the configuration:

- 1. Create a CFM file (say, myfile.cfm) in, <Nginx\_Installation\_directory>/html.
- Open a browser and enter http://<machine hostname>:<nginx port>/myfile.cfm. You should now see ColdFusion files being served successfully with Nginx.

#### Additional Information

The connector configuration files created in the ColdFusion directory is similar to the ones created in IIS / Apache configurations.

The connector configurations are placed at the following directory: /opt/coldfusion2016/wsconfig/<Magic\_Folder\_Number>, and includes the following files:

• ngx\_http\_ajp.log – The connector log file

- ngx\_http\_ajp\_module.so –The connector binary
- ajp\_index.conf Contains the default document configurations, specifically, index.cfm
- ajp\_load\_module.conf Contains directives for Nginx to load the connector binary mentioned above
- ajp\_location.conf Contains ColdFusion specific URI mappings and rules
- ajp\_location\_properties.conf Contains logging and AJP specific configurations such as keep-alive and timeout.
- ajp\_upstream.conf Contains the location of the configured ColdFusion server. If the connector is configured to work with clusters, the instances associated with the cluster are also listed here.