Lab 9: Routing HTTP Requests

Estimated time for completion: 20 minutes

Requirements

The following tasks must be completed before beginning this lab:

- Getting Started with NGINX, (the Getting Started Guide in LearnF5)
- Log into Hosted Environment, your lab initialization instructions are located in the LearnF5 course

Scenario

You set up a location using a regular expression that captures incoming HTTP requests looking for the /pictures URI, followed by any character before a dot, followed by either an extension of gif, jpe, jpg, or png. In other words, the location block serves URI's that have /pictures/<file_name>.<picture_file_extension> in them. You also specify a replacement path using the alias directive.

Objectives

At the end of this lab you will be able to:

- Use NGINX directives to reroute traffic
- Define URL rewrites
- Determine rewrite request processing

Lab Contents

Exercise 1: Use the alias directive



IMPORTANT

You can copy and paste the commands and text from the examples to your terminal or editor, (just make sure you don't copy and paste the \$ prompt!)

Exercise 1: Using the alias directive

Learning Objective:

Use the alias directive with a location defined by a regular expression.

Scenario

You set up a location using a regular expression that captures incoming HTTP requests looking for the <code>/pictures</code> URI, followed by any character before a dot, followed by either an extension of <code>gif</code>, <code>jpe</code>, <code>jpg</code>, or <code>png</code>. In other words, the location block serves URI's that have <code>/pictures/<file_name>.<picture_file_extension> in them. You also specify a replacement path using the alias directive.</code>

1. Open the server1.conf configuration file:

```
$ sudo vim /etc/nginx/conf.d/server1.conf
```

2. Comment out the existing /images location block.

```
# location /images {
# root /data;
# }
```

 Create a new **location** (positioned directly below the log directive lines, as shown below), using the following case in sensitive regular expression and the alias directive:

```
location ~ ^/pictures/(.+\.(gif|jpeg|png))$ {
alias /data/images/$1;
}
```

Your file look be like this:

```
# This is the http context
log format test log ' "Request: $request\n Status: $status\n
Request URI: $request uri\n Hosts: $host\n Client IP:
$remote addr\n Proxy IP(s): $proxy add x forwarded for\n Proxy Host
name: $proxy host\n Real IP: $http x real ip" ';
server {
listen 80;
root /home/ubuntu/public html;
 error log /var/log/nginx/server1.error.log info;
 access log /var/log/nginx/server1.access.log test log;
location ~ ^/pictures/(.+\.(gif|jpe?g|png))$ {
 location /application1 {
 index app1.html;
 proxy pass http://localhost:8080/sanokeApp;
 location /application2 {
 index app2.html;
# location /images {
 root /data;
```

4. Save the file and reload NGINX. (esc and :wq).

```
$ sudo nginx -s reload
```

5. In a browser, test for the correct results:

http://localhost/pictures/logo.png

You should get the NGINX logo in your browser.



Expected Results

You set up a location using a regular expression that captures incoming HTTP requests looking for the /pictures URI, followed by any character before a dot, followed by either an extension of gif, jpe, jpg, or png. You then specified a replacement path using the alias directive.



