

## [M04] Lab - Server Selection

# Introduction

## Scenario

In this exercise, rename the current `mywebserver.conf` configuration file. Create a new configuration file that uses two server blocks with different listen directives and determine which server responds.

Estimated time to completion: **10 minutes**

## Lab Objectives:

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

- Create and test a new configuration file
- Determine which listen directive will serve a request

## Lab Contents

Segments in the lab:

Exercise 1: Update a configuration file and test it.

# Lab 4: Server Selection

Estimated time for completion: **10 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

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## Objectives

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

- Create and test a new configuration file
- Determine which listen directive will serve a request



### 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!)

## Steps

Exercise 1: Update a configuration file and test it.

1. Rename the `mywebserver.conf` file:

```
$ cd /etc/nginx/conf.d
$ sudo mv mywebserver.{conf,bak}
```

2. Before you test the configuration, predict which server will respond and why:

```
$ sudo vim return_test.conf
```

```
server {  
    listen 80;  
    return 200 "this server listens on 0.0.0.0:80\n";  
}  
server {  
    listen 127.0.0.1:80;  
    return 200 "this server listens on 127.0.0.1:80\n";  
}
```

3. Save and exit the `return_test.conf` file with (`esc` and `:wq!`).

4. Reload NGINX:

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

5. Change directories to the primary configuration file directory:

```
$ curl http://localhost
```

6. Which server responded?

```
this server listens on 127.0.0.1:80
```

In your NGINX configuration file `return_test.conf`, the second server block listens on IP address `127.0.0.1` which directly matches the loopback address of your localhost system, and so matches the request exactly.

The first server block with IP address `0.0.0.0` is a more generic address serving ALL IPv4 addresses on your local system.

## Expected Results

In this exercise, you were able to rename the current `mywebserver.conf` configuration file. You also created a new configuration file that uses two server blocks with different listen directives and determine which server responds.

