

Lab 1.1 Install open source NGINX on CentOS

Watch for an email when you “Activate” the lab environment. That email provides the password you will use to access the lab environment as well as links that allow return to the environment if you close the window.

Once in the lab environment, you will see the single Linux server used by the lab. Command-line console access is provided when you click on that server image. Use the credentials: root/training when accessing the server’s command line.

NOTE: Copy and paste is not supported for any of the NGINX Core (On-Demand) labs.

1. Create the nginx.repo file in the yum repository

```
vim /etc/yum.repos.d/nginx.repo
```

2. Copy the following into nginx.repo

```
[nginx]
name=nginx repo
baseurl=https://nginx.org/packages/mainline/centos/7/$basearch/
gpgcheck=0
enabled=1
```

3. Save and exit nginx.repo
4. Update package components and install nginx

```
yum update && yum install nginx -y
```

5. Click "y" when prompted to download NGINX.
6. Start the nginx process

```
nginx
```

7. Verify that NGINX is running

```
curl localhost
```

If NGINX is correctly installed you'll see a "Welcome to NGINX" page.

Lab 1.2 Download and install a dynamic module

1. Create a simple JavaScript.

```
vim /etc/nginx/moduletest.js
```

2. Paste the javascript below into the file.

```
function moduleTest(res) {  
    res.return(200, "The njs module was loaded\n");  
}
```

3. Save and exit moduletest.js
4. Open /etc/nginx/nginx.conf

```
vim /etc/nginx/nginx.conf
```

5. In the HTTP context (between the brackets following http) enter the following:

```
js_include moduletest.js;
```

6. Beneath the line you just entered, paste the following nginx configuration:

```
server {  
    listen 80;  
    location / {  
        js_content moduleTest;  
    }  
}
```

7. Save and exit nginx.conf
8. Rename nginx default configuraiton.

```
mv /etc/nginx/conf.d/default.conf /etc/nginx/conf.d/default.conf.bak
```

9. Reload NGINX

```
nginx -s reload
```

You should get an error - unknown directive. This indicates that the njs module hasn't been installed.

10. Use yum to download and install the njs module

```
yum install nginx-module-njs -y
```

11. When the install is complete, open /etc/nginx/nginx.conf

```
vim /etc/nginx/nginx.conf
```

12. Near the top of the file nginx.conf, add the following lines to enable the njs module in both the http and stream modules:

```
load_module modules/ngx_http_js_module.so;  
load_module modules/ngx_stream_js_module.so;
```

13. Save and exit nginx.conf

14. Reload nginx to affect changes

```
nginx -s reload
```

15. Curl localhost.

```
curl localhost
```

You should see the output of our javascript, "the njs module was loaded"

Each lab uses a fresh environment so remember to shut down the environment when done.