Setting up Nginx Server

edureka!

Setting up Nginx Server

Table of Contents

Install Nginx Using Yum Command

Step #1: Install nginx repo

Type the following wget command to install nginx yum configuration file:

```
# cd /tmp
```

CentOS Linux v6.x user type the following command:

```
# wget http://nginx.org/packages/centos/6/noarch/RPMS/nginx-release-centos-6-
0.el6.ngx.noarch.rpm
```

```
# rpm -ivh nginx-release-centos-6-0.el6.ngx.noarch.rpm
```

RHEL v6.x user type the following command:

```
# wget http://nginx.org/packages/rhel/6/noarch/RPMS/nginx-release-rhel-6-
0.el6.ngx.noarch.rpm
```

```
# rpm -ivh nginx-release-rhel-6-0.el6.ngx.noarch.rpm
```

Sample outputs:

```
warning: nginx-release-rhel-6-0.el6.ngx.noarch.rpm: Header V4 RSA/SHA1
Signature, key ID 7bd9bf62: NOKEY

Preparing...                ########################################### [100%]

   1:nginx-release-rhel     ########################################### [100%]
```

Step #2: Install nginx web-server

Type the following yum command to install nginx web-server:

```
# yum install nginx
```

Sample outputs:

```
Loaded plugins: product-id, rhnplugin, security, subscription-manager

Updating certificate-based repositories.

Unable to read consumer identity

nginx                                                    | 1.3 kB     00:00
nginx/primary                                            | 4.8 kB     00:00
nginx
33/33
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package nginx.x86_64 0:1.2.6-1.el6.ngx will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
==
 Package        Arch            Version                    Repository
Size
================================================================================
==
Installing:
 nginx          x86_64          1.2.6-1.el6.ngx            nginx          361
k
```

```
Transaction Summary
================================================================================
==
Install       1 Package(s)

Total download size: 361 k
Installed size: 835 k
Is this ok [y/N]: y
Downloading Packages:
nginx-1.2.6-1.el6.ngx.x86_64.rpm                          | 361 kB     00:00
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
Warning: RPMDB altered outside of yum.
```

```
  Installing : nginx-1.2.6-1.el6.ngx.x86_64
1/1
----------------------------------------------------------------------

Thanks for using NGINX!

Check out our community web site:
* http://nginx.org/en/support.html

If you have questions about commercial support for NGINX please visit:
* http://www.nginx.com/support.html
----------------------------------------------------------------------
Installed products updated.
  Verifying  : nginx-1.2.6-1.el6.ngx.x86_64
1/1

Installed:
  nginx.x86_64 0:1.2.6-1.el6.ngx

Complete!
```

Step #3: Turn on nginx service

Type the following command:

```
# chkconfig nginx on
```

How do I start / stop / restart nginx web-server?

Type the following commands:

```
# service nginx start
```

```
# service nginx stop
```

```
# service nginx restart
```

```
# service nginx status
```

```
# service nginx reload
```

Step #4: Configuration files

1. Default configuration directory: `/etc/nginx/`
2. Default SSL and vhost config directory: `/etc/nginx/conf.d/`
3. Default log file directory: `/var/log/nginx/`
4. Default document root directory: `/usr/share/nginx/html`
5. Default configuration file: `/etc/nginx/nginx.conf`
6. Default server access log file: `/var/log/nginx/access.log`
7. Default server access log file: `/var/log/nginx/error.log`

To edit the nginx configuration file, enter:

```
# vi /etc/nginx/nginx.conf
```

Set or update worker_processes as follows (this must be set to CPU(s) in your system. Use the`lscpu | grep '^CPU(s)'` command to list the number of CPUs in the server)

```
worker_processes  2;
```

Turn on gzip support:

Set server name:

```
    server_name  www.cyberciti.biz;
```

Save and close the file. Start the server:

```
# service nginx start
```

Verify that everything is working:

```
# netstat -tulpn | grep :80
```

```
# ps aux | grep nginx
```

Firewall configuration: Open TCP port # 80

Edit the file /etc/sysconfig/iptables, enter:

```
# vi /etc/sysconfig/iptables
```

Add the following lines, ensuring that they appear before the final LOG and DROP lines for the INPUT chain to open port 80:

```
-A INPUT -m state --state NEW -p tcp --dport 80 -j ACCEPT
```

Save and close the file. Finally, restart the firewall:

```
# service iptables restart
```