

Deploying WebSites on the Fly

Project Name: WebApp

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Project Description

- Deploying website with free of cost by simply uploading html zip or tar ball.
- Condition: User must hold a domain name and edit your DNS **A Record** with our **Server IP** address.

Congratulation your Business Website is Ready

How Achieved Project

- My Project Experiment Details
 - 1) Launched an Ubuntu18LTS Server on AWS.
 - 2) Downloaded NGINX Server source and its Dependencis.
 - 3) Compiled NGINX Server with static binding technique successfully.

Reference Link:

<https://github.com/balajipothula/webapp/blob/master/compile-nginx.sh>

How Achieved Project

- My Project Experiment Details
- 4) Launched a RedHat8 Server on AWS.
 - 5) Removed all Non Essential Programs / Applications from RedHat8 OS and made it minimal OS to save HDD Memory as well as RAM Memory, Less hackable also.

Reference Link:

<https://github.com/balajipothula/webapp/blob/master/rm-rh8-ne.sh>

How Achieved Project

- My Project Experiment Details
 - 6) Created user with name **webapp**
 - 7) Copied NGINX Server into webapp user home directory and started the server
 - 8) Copied my website into webapp user home directory.
 - 9) Updated my website DNS A Record with our Server IP address. Open my website in browser working successfully

Project Goals

- By designing a WebUI users can easily upload their website source into our production server.
- On the fly we will generate necessary configuration files conf (balaji.network.conf) and log (access.log and error.log)
- By running logrotate cronjob dialy mid night we can take the backup of website logs and storing into backup log servers.

Reference Link:

<https://github.com/balajipothula/webapp/blob/master/logrotate>

Project Future Goals

- Instead of using exist OSes like RedHat, Ubuntu we can also design our own OS with minimal requirements to run NGINX / Tomcat, what ever the server we want. We can achieve it by using Linux From Scratch.
- We can run a web server with total OS size 10MB to 100MB only and can save resources.

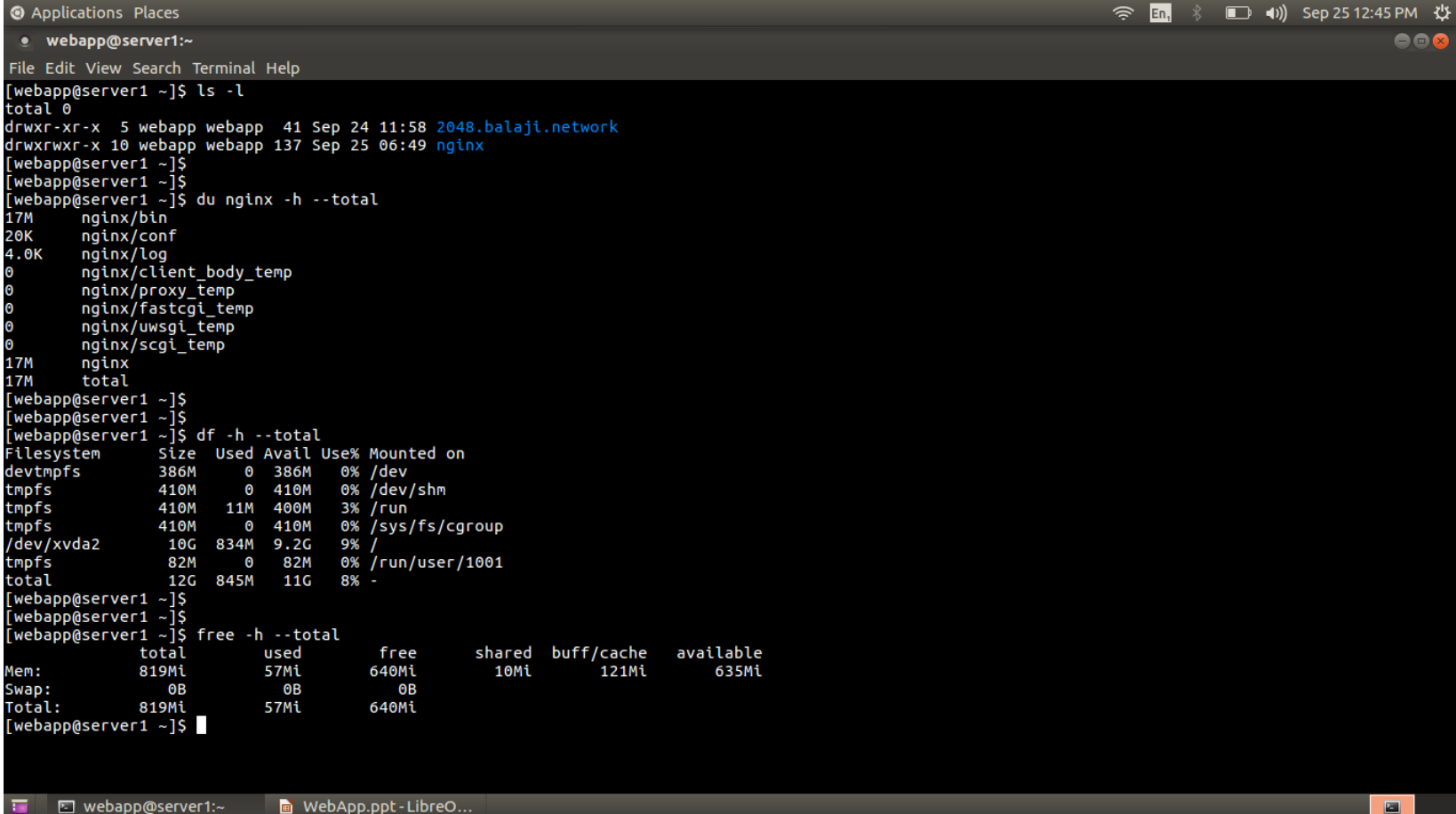
Reference Link:

<http://www.linuxfromscratch.org/lfs/>

Project Future Goals

- We can automate the whole process and with single server can maintain multiple websites.
- We can expand it for Java, Python, Ruby, Lua and etc.,
- On fly we can provide cloud servers with user choice. User simple deploy their Applications (Java / Python / Ruby / Lua)
- Customer can focus only on Coding. No headache of servers.

WebApp Screen Shot



A terminal window titled "webapp@server1:~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Applications, Places, and system icons). The terminal displays the following commands and output:

```
[webapp@server1 ~]$ ls -l
total 0
drwxr-xr-x  5 webapp webapp  41 Sep 24 11:58 2048.balaji.network
drwxrwxr-x 10 webapp webapp 137 Sep 25 06:49 nginx
[webapp@server1 ~]$
[webapp@server1 ~]$
[webapp@server1 ~]$ du nginx -h --total
17M    nginx/bin
20K    nginx/conf
4.0K   nginx/log
0      nginx/client_body_temp
0      nginx/proxy_temp
0      nginx/fastcgi_temp
0      nginx/uwsgi_temp
0      nginx/scgi_temp
17M    nginx
17M    total
[webapp@server1 ~]$
[webapp@server1 ~]$
[webapp@server1 ~]$ df -h --total
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        386M   0  386M   0% /dev
tmpfs           410M   0  410M   0% /dev/shm
tmpfs           410M  11M  400M   3% /run
tmpfs           410M   0  410M   0% /sys/fs/cgroup
/dev/xvda2      10G  834M   9.2G   9% /
tmpfs           82M   0   82M   0% /run/user/1001
total          12G  845M  11G   8% -
[webapp@server1 ~]$
[webapp@server1 ~]$
[webapp@server1 ~]$ free -h --total
              total        used        free      shared  buff/cache   available
Mem:          819Mi         57Mi        640Mi         10Mi        121Mi        635Mi
Swap:          0B           0B           0B
Total:        819Mi         57Mi        640Mi
```

The terminal window is part of a desktop environment. The taskbar at the bottom shows the terminal icon, the terminal window title "webapp@server1:~", and another window titled "WebApp.ppt - LibreO...".

Thank you

WebApp Project Link:

<https://github.com/balajipothula/webapp>

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Project please contact on eMail or Phone

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