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 Essentail 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 configuation 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

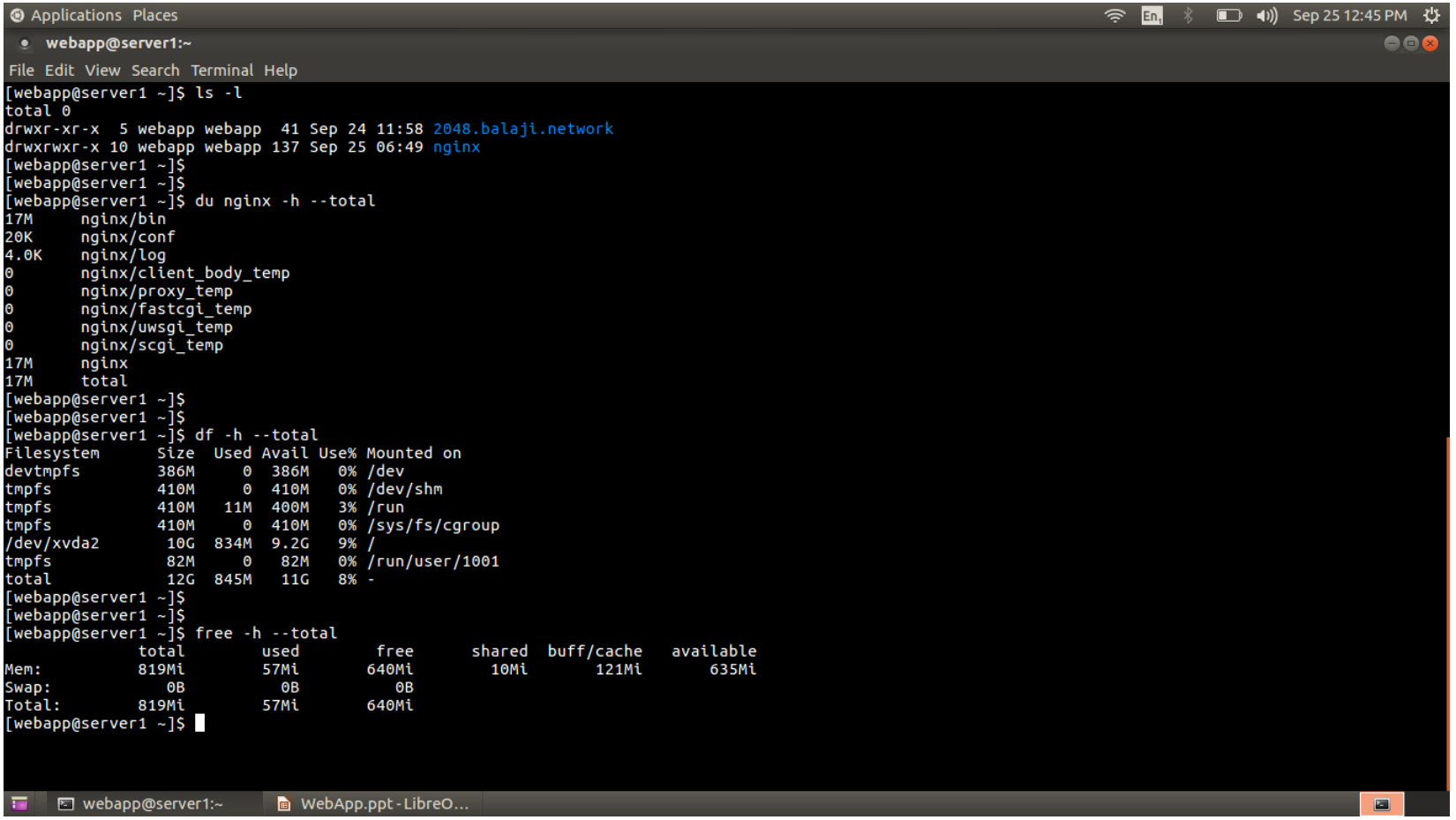
- Instead of using exist OSes like RedHat, Ubuntu we can also design our own OS with minimal requirements to run NGINX / Tomcat, what ever the server we want. We can achieve it by using Linux From Scratch.
- We can run a web server with total OS size 10MB to 100MB only and can save resources.

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



Thank you

WebApp Project Link:
https://github.com/balajipothula/webapp

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