SHIVAM SOIN

Linux and Cloud aficionado

PERSONAL PROFILE

A quick-learner and self-motivated student with experience of working with cloud platforms like GCP , Azure & AWS. Hand-on experiece working withh NGINX and Apache .

CONTACT DETAILS:

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ACADEMIC HISTORY

CHITKARA UNIVERSITY

B.Tech Computer Science, 2019-2023

MOTHER KHAZANI CONVENT SCHOOL,DELHI

10+1 and 10+2 , 2018-2019

PROJECTS

NGINX WEB SERVER SETUP ON UBUNTU 18.04.5 LTS & SSL/TLS CERTIFICATE WITH LET'S ENCRYPT

NGINX is open-source software for web serving, reverse proxying, caching, load balancing, media streaming, and more. It started out as a web server designed for maximum performance and stability. In addition to its HTTP server capabilities, NGINX can also function as a proxy server for email (IMAP, POP3, and SMTP) and a reverse proxy and load balancer for HTTP, TCP, and UDP servers.

>Tried setting up NGINX on my laptop's HDD by enabling virtualization from the System BIOS and setting up CentOS on my VMWare workstation 16 pros but the windows defender firewall was blocking port 80(HTTP) and 443(HTTPS).So eventually had to switch to a VPC for this.

>Setting up an NGINX Server with Microsoft Azure cloud services by creating an Ubuntu 18.04.5 LTS server on that compute along with the opening of port 22 (SSH), port 80(HTTP) and port 443(HTTPS). Installing NGINX using the command "sudo apt-get install nginx".

>Setting up a lab for running configure scripts of NGINX and then installing libpcre zlib n libssl for further configuration.

>Setting up common flags by going through the NGINX man page and further building it from source and fetching systemd service making the start , stop & other operations such as reloading it much easier.

>Configuring systemd commands to startup NGINX on system reboot.

>Location blocks by editing the nginx.conf file adding PREFIX ,EXACT and REGEX .

>Setting the NGINX worker process to auto because the VPC is a single-core compute. Limiting the maximum number of concurrent requests to 1024 as it was the highest number it could handle without crashing. Maximum connections calculated "worker_process * worker_connections = max_connections".

>Changing the default NGINX holding page to my personalized static responsive web page listing all the commands and steps to follow to setup an NGINX server.

>Spun up a doman name from name.com pointing to my VPC IP Address.

>Fetched Secure Socket Layer (SSL) Certificate with Let's Encrypt.

WEB REAL TIME CALLING SERVER WITH NGINX AS LOAD BALANCER

Currently working on it.

SELF-HOSTED PORTFOLIO ON RASPBERRY PI 3

Currently working on it.

SKILLS AND ABILITIES

- Aware about multiple cloud services.
-Elastic Compute 2, S3, Elactic Load Balancer, AWS Lambda
- Linux System Administration.
-LEMP Stack.
-Shell Scripting.
- Hands-on with multiple web servers like NGINX Apache Kafka WebRTC (Real Time Calling).
- Python and C Programming.
- Time Management and Organizational Skills.
- Communication and Presentation Skills.
-Team Work and Team Management Skills.