

# **Blog TRAINING (TR-103)**

## **Cloud Computing**

### **Week 1**

I began learning about Linux, an open-source operating system used by developers worldwide. Learn and understand basic commands like `pwd` to check the current directory, `ls` to list files, and `cd` to change directories. I also learned to create, delete, and view files using commands like `touch`, `mkdir`, `rm`, and `cat`. I installed Ubuntu, a version of Linux, by creating a bootable USB and completing the installation process. After that, I learned about Git, a tool for managing code, and cloning a repository using the `git clone` command. I took a quiz on Linux commands and Git basics.

### **Week 2**

Exploring Nginx and Server Management I presented my learnings from the previous days and clarified doubts about Nginx, a popular web server. I learned how to modify the root directory in the Nginx configuration to serve a custom `index.html` file that I created. Additionally, I set up user accounts and passwords on the server, enabling secure access for each user. Using these accounts, I successfully uploaded and displayed my HTML files on the server.

### **Week 3**

I created a personal account on my system, switched to the root user, and successfully displayed an `index.html` file on localhost from the new user account. I installed MySQL and PHP, ensuring PHP files could run seamlessly on the server. Additionally, I connected a domain name to my server's IP

address, making the server publicly accessible. I also started building webpages for a website that will be hosted on the server.

## **Week 4**

We installed phpMyAdmin and set it up on our systems to manage databases. Under the server root account at gne8.gndec.ac.in, we logged in, created databases for students using their name and roll number combinations, and provided them access to create tables. We also created index.php files with PHP forms connected to the databases. These forms were tested, and all data was successfully stored in user databases. we hosted our websites by logging into the server account, creating configuration files, and updating the server name to our domain. After that, we secured our domains by enabling SSL and converting them from HTTP to HTTPS. Finally, we were assigned to create a website featuring links to daily diaries and four blogs linked within the website.