

9-July-2024

Training Day - 11 Report:

Gained Sudo Access and Configured Apache for Hosting Websites

1. Gained Sudo Access to the College Server:

- We were granted administrative privileges (sudo access) to the college server, allowing us to execute commands requiring superuser rights.

2. Configured site.conf and Enabled Sites in Apache:

- **Create Virtual Host File:**

```
sudo nano /etc/apache2/sites-available/site.conf
```

- **Edit site.conf:** Configured the virtual host with settings like ServerName, ServerAlias, and DocumentRoot.

Example configuration:

```
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
    ServerName example.com
    ServerAlias www.example.com
    DocumentRoot /home/username/public_html
    <Directory /home/username/public_html>
        AllowOverride All
        Require all granted
    </Directory>
</VirtualHost>
```

- **Enable the Site:**

```
sudo a2ensite site.conf
```

- **Reload Apache:**

```
sudo systemctl reload apache2
```

3. Configured DNS and Apache to Host Website:

- **DNS Configuration:**
 - Created A and CNAME records for the domain and subdomains pointing to the server IP.
- **Apache Configuration:**
 - Enabled the userdir module and modified /etc/apache2/mods-enabled/userdir.conf to allow access to public_html.
 - Placed website files in the user's public_html directory.
- **Restart Apache:**

`sudo systemctl restart apache2`

4. Summary:

- Gained administrative access to the server.
- Learned to configure virtual hosts in Apache for multiple websites.
- Set up DNS records and configured Apache to host websites from user directories.