10-July-2024

Training Day - 12 Report:

Learned About SSL Certificates and Securing Websites with HTTPS

1. Understanding SSL Certificates:

- SSL (Secure Sockets Layer) certificates encrypt data between the user's browser and the web server, ensuring secure communication and privacy.

2. Installed Certbot on the College Server Using Snap:

- **Ensure Snap is Installed:**

  sudo apt update
  sudo apt install snapd

- **Install Certbot:**

  sudo snap install --classic certbot

3. Obtained SSL Certificates and Enabled HTTPS:

- **Run Certbot to Obtain SSL Certificates:**

  sudo certbot --apache

- **Follow Interactive Prompts:**

  o Enter email for renewal notifications.
  o Agree to terms and select domains to activate HTTPS.

- **Enable HTTPS on Apache:**

  o Certbot automatically configures Apache to serve the site over HTTPS and updates the virtual host configuration.

- **Verify HTTPS:**

  o Visit https://example.com and check for a padlock icon in the browser's address bar to confirm the SSL certificate is active.

4. Automatic Renewal:

- Certbot automatically renews SSL certificates. To test renewal:
- sudo certbot renew --dry-run