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22CSR035

DEVOPS

DAY 1- TASK

Software Development Life Cycle (SDLC):

- Requirement Analysis: Gathering business needs.
- Planning: Defining project scope and resources.
- Design: Architectural and UI/UX planning.
- Implementation: Writing and integrating code.
- Testing: Identifying and fixing bugs.
- Deployment: Releasing software to production.
- Maintenance: Updating and fixing software post-deployment.

DevOps Basics:

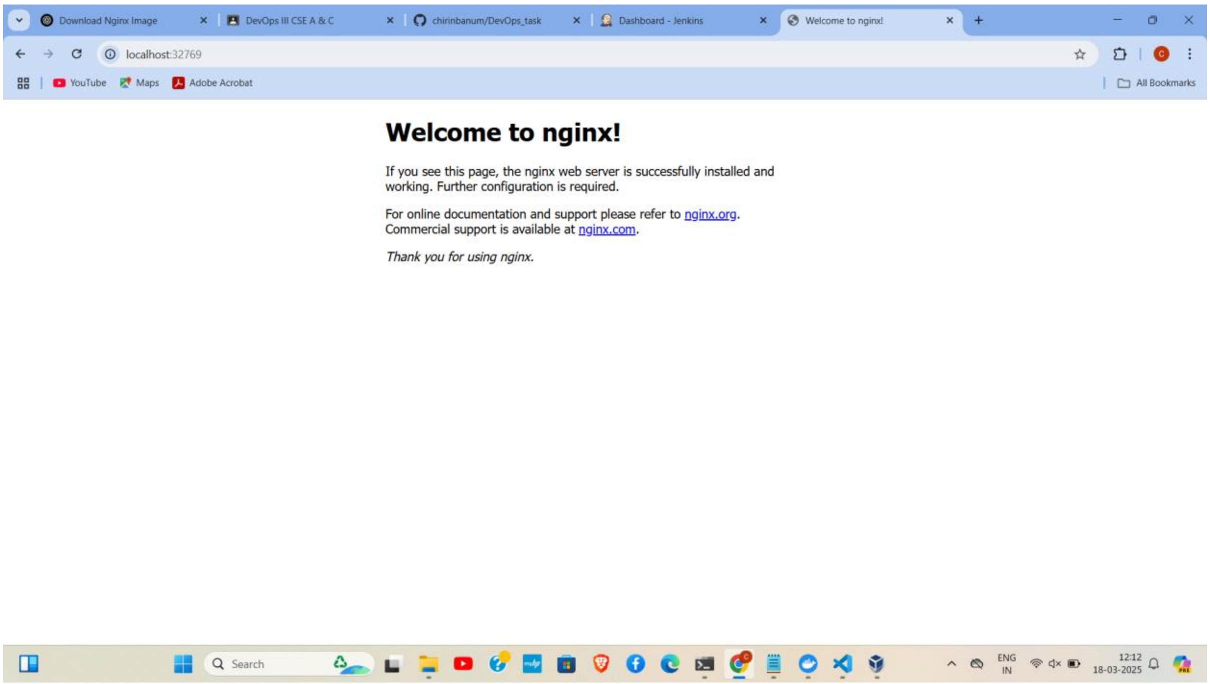
- Development & Version Control: Git, GitHub, GitLab
- Continuous Integration (CI): Jenkins, GitHub Actions
- Continuous Deployment (CD): Docker, Kubernetes
- Monitoring & Logging: Prometheus, Grafana, ELK Stack
- Configuration Management: Ansible, Terraform
- Collaboration & Communication: Slack, Jira

Pushing Images to Docker Hub:

- Login to Docker Hub: docker login -u <your-username> -p <your-password>
- Build Docker Image: docker build -t <your-username>/<image-name>:latest .
- Tag the Image: docker tag <image-name>:latest <your-username>/<image-name>:latest
- Push the Image to Docker Hub: docker push <your-username>/<image-name>:latest
- Verify the Image on Docker Hub by logging in and checking the repository.

Deploy Nginx in Docker:

- Pull the Nginx Image: docker pull nginx
- Run Nginx Container: docker run -d -p 8080:80 --name my-nginx nginx
- Verify Running Container: docker ps
- Access Nginx by opening a web browser and going to http://localhost:8080
- Stop and Remove the Container: docker stop my-nginx && docker rm my-nginx



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.