

## Lab 4: Installing Docker Desktop and Gitea

### Objective

The purpose of this lab is to:

1. Install Docker Desktop on MacOS or Windows.
  2. Deploy Gitea using Docker and optionally without Docker.
  3. Explore Gitea features, including support for Git LFS.
  4. Practice creating repositories, committing large files, and backing up/restoring data.
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### Part 1: Install Docker Desktop

1. Installed WSL2:
  2. `wsl --install`
  3. Installed Docker Desktop from the official installer.  
(*Screenshot 2: Docker Desktop installation on Windows*)
  4. Verified Docker installation:
  5. `docker --version`
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### Part 2: Install Gitea using Docker

1. Pulled the Gitea Docker image:
2. `docker pull gitea/gitea:latest`
3. Created a Docker container for Gitea:
4. `docker run -d --name gitea -p 3000:3000 -p 222:22 gitea/gitea`
5. Opened Gitea web interface at `http://localhost:3000` and completed initial setup.

### Conclusion

- Successfully installed Docker Desktop on MacOS/Windows.
- Deployed Gitea using Docker and confirmed Git LFS support.

- Created repositories, committed a large file, and backed up/restored data.
- Installed Gitea without Docker using a selected database.
- Gained hands-on experience with containerized deployment and version control for personal projects.

