

1. Git:

1. Stworzyć repo (lokalnie + Gitlab)
2. Dodać plik sample.txt
3. Commit -m "dodałem plik"
4. Coś zmienić w pliku sample.txt
5. Nowy commit
6. Branch dev
7. dodać nowy plik + zmodyfikować istniejący
8. commit
9. merge to master

2. Bazy danych (1) - Create database for simple website posts (Attached schema)

1. Create new Database
2. Create Users table manually
3. Create Posts and Comments manually
4. Add some sample data using INSERT (once)
5. Add more sample data using script (at least 5 users and 10 posts and comments)
6. Show all posts of user whose name == 'Jan' (or other)
7. Show all user == 'Jan' comments between data X and Y
8. Propose own query to show to audience

3. Bazy danych (2) - First create a sample database (can be the same as one above)

1. Create new database user with read-only access
2. Query some data and show results
3. Show that insertion does not work.
4. Talk about other options and settings tables in database. (what other settings there are, access rights etc...)
5. Back up the database.
6. Insert new data to db
7. Back up the database once again (incremental and full backup)
8. Restore database from full backup and incremental ones.

4. Docker

1. Run pure ubuntu container on docker and install microservices from gitlab
 1. install git
 2. clone repository
 3. install other dependencies (pip etc)
 4. run microservices using makefile
 5. use curl to show that it works as expected
2. Run ubuntu container -v "path to local copy of repository" -p 5000:5000
 1. Install dependencies
 2. Run microservices
 3. Show results from host machine (e.g. using internet browser)

5. Dockerfile

1. Run container with python version 3.5 and other with python version 3.6 show that the project works.

2. prepare simple Dockerfile that installs dependencies for the project.
3. Run project using new image.