Gitea Deployment Using Docker Swarm

Step 1: Checking Docker Swarm Status

Step 2: Verifying Existing Swarm Services


```
selin@SELIN:/mnt/c/Users/selin$ docker service ls
ID              NAME             MODE         REPLICAS   IMAGE        PORTS
snwf9bcs15cp    postgres_service replicated   1/1        postgres:15  *:5555->5432/tcp
selin@SELIN:/mnt/c/Users/selin$ docker swarm init
Error response from daemon: This node is already part of a swarm. Use "docker swarm leave" to leave this swarm and join another one.
```

Step 3: Preparing Persistent Storage for Gitea
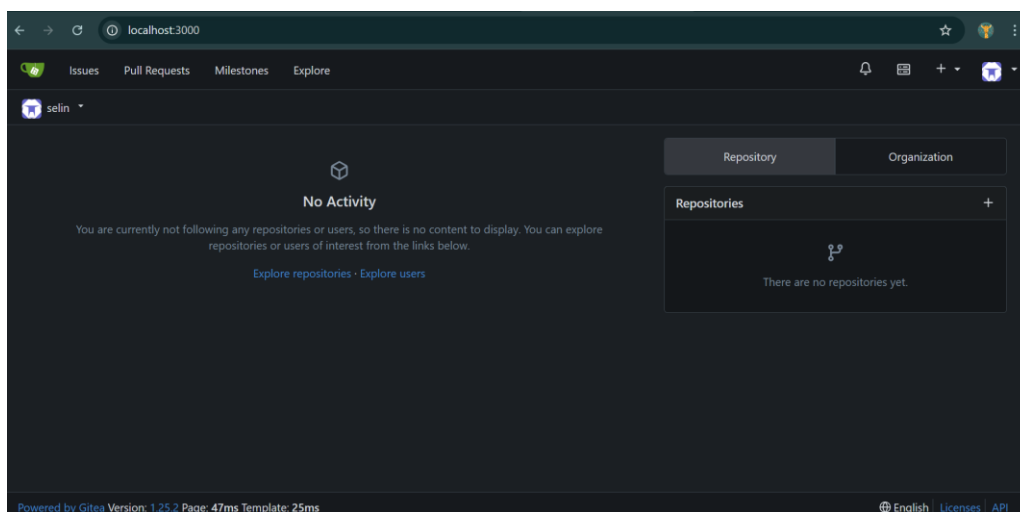
Step 4: Deploying Gitea as a Docker Swarm Service

Step 5: Verifying Gitea Service Execution

Step 6: Accessing the Gitea Web Interface

Step 7: Configuring the Database

Step 8: Confirming Swarm-Based Deployment


```
selin@SELIN:/mnt/c/Users/selin$ docker volume create gitea_data
gitea_data
selin@SELIN:/mnt/c/Users/selin$ docker service create \
  --name gitea_service \
  --publish published=3000,target=3000 \
  --publish published=2222,target=22 \
  --mount type=volume,source=gitea_data,target=/data \
  gitea/gitea:latest
k0gqae63k19l53fgsfis0vlh1
overall progress: 1 out of 1 tasks
1/1: running
verify: Service k0gqae63k19l53fgsfis0vlh1 converged
selin@SELIN:/mnt/c/Users/selin$ docker service ls
ID              NAME             MODE         REPLICAS   IMAGE                PORTS
k0gqae63k19l    gitea_service    replicated   1/1        gitea/gitea:latest   *:2222->22/tcp, *:3000->3000/tcp
snwf9bcs15cp    postgres_service replicated   1/1        postgres:15          *:5555->5432/tcp
selin@SELIN:/mnt/c/Users/selin$ docker service ps gitea_service
ID              NAME             IMAGE                NODE    DESIRED STATE   CURRENT STATE            ERROR   PORTS
m4urn2stpcxw    gitea_service.1  gitea/gitea:latest   SELIN   Running         Running about a minute ago
```

Mailer Configuration in Gitea using Docker Swarm

Step 1: Deploy Gitea as a Docker Swarm service

Step 2: Use environment variables for mail configuration

Step 3: Publish ports using host mode

Step 4: Verify service and mailer status

Step 5: Confirm mailer status in Gitea UI

Mailer Configuration

Enabled	✓
Name	Gitea: Git with a cup of tea
Protocol	smtps
Enable HELO	✓
SMTP Addr	smtp.gmail.com
SMTP Port	465
User	selinvrghs@gmail.com

Send Testing Email   harisjosinpeter@gmail.com   **Send**

Gitea Test Email!

⌐ Summarize this email

Gitea <selinvrghs@gmail.com>
to harisjosinpeter ▾

Sun, Dec 21, 2025, 12:38 PM (11 days ago)

Gitea Test Email!

↩ Reply   → Forward   ☺