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Here are comprehensive steps to push your Docker-based WiFi monitoring setup (including your new files and changes) to a GitHub repository.

1. Initialize Git (If Needed)

```
cd ~/wifi-monitoring    # Go to your project directory  
git init                 # Only if NOT already initialized
```

2. Stage Your Files

```
git add docker-compose.yml prometheus.yml monitoring-setup.md  
git add prometheus-data/ grafana-data/    # If you want to include these (optional/persist  
                                         # To add everything (safer for initial commit, t
```

3. Commit Your Changes

```
git commit -m "Initial commit: add docker-compose, Prometheus, Grafana configs, and setup
```

4. Create a Repository on GitHub

1. Go to <https://github.com/new>
2. Enter a **repository name** (example: wifi-network-monitoring)
3. (Optional) Add a description
4. Choose **Public** or **Private**
5. Leave "Initialize with a README" **unchecked** if you already have local files
6. Click **Create repository**

5. Link Your Local Git to GitHub

Replace <your-username> and <repo-name> with your details:

```
git remote add origin https://github.com/<your-username>/<repo-name>.git
```

If you already have a remote and want to change it:

```
git remote set-url origin https://github.com/<your-username>/<repo-name>.git
```

6. Push Your Code to GitHub

```
git branch -M main      # Name branch 'main' (standard for new repos)
git push -u origin main # Push code to GitHub and set upstream tracking
```

- You may be prompted for your GitHub username and personal access token (recommended instead of password).
- If 2FA is enabled, use a **personal access token** instead of your password.

7. Check Your Repository on GitHub

Go to:

<https://github.com/<your-username>/<repo-name>>

You should see your new files in the repo.

Typical Command Sequence (For Reference)

```
cd ~/wifi-monitoring
git init
git add .
git commit -m "Initial commit: WiFi monitoring Docker setup"
git remote add origin https://github.com/<your-username>/<repo-name>.git
git branch -M main
git push -u origin main
```

Additional Tips

- **To skip persistent volumes:**

Add `prometheus-data/` and `grafana-data/` to a `.gitignore` file if you do **not** want to push data directories.

```
echo "prometheus-data/" >> .gitignore
echo "grafana-data/" >> .gitignore
git add .gitignore
```

```
git commit -m "Add .gitignore for data volumes"  
git push
```

- **To update later:**

After making any changes, use:

```
git add .  
git commit -m "Describe what you changed"  
git push
```

You are now ready to version control and share your monitoring infrastructure using Git and GitHub!