1. Pull the updated repo from github
2. Create RDS
3. Build MicroService with Docker
4. Push it to docker hub
5. Create EC2 instance
6. login to docker
7. Pull, build, start MicroService
8. Write the autostart file

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| Pull the updated repo from github | **git pull origin main** | |
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| **Build the Microservice and push it to docker hub** | | |
| Build the docker image from dockerfile in current directory with a tag  ***docker build -t <image\_name>:<tag> <path\_to\_Dockerfile>*** | **docker build -t gts-identity-service:1.0.0 .** | |
| tag your Docker image with the repository name on the registry:  ***docker tag <image\_name>:<tag> <username>/<repository\_name>:<tag>*** | **docker tag gts-identity-service:1.0.0 fatimabutt1899/gts-identity-service:1.0.0** | |
| push the tagged image to the registry  ***docker push <username>/<repository\_name>:<tag>*** | **docker push fatimabutt1899/gts-identity-service:1.0.0** | |
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| **Open EC2 instance** | | |
| Install these in ec2 | | **sudo apt-get update**  **sudo apt-get install -y docker.io**  **sudo systemctl start docker**  **sudo systemctl enable docker** |
| Login to docker | | **sudo docker login** |
| Pull the image from docker hub | | **sudo docker pull fatimabutt1899/gts-identity-service:1.0.0** |
| Run this pulled container for identity service | | **sudo docker run -d --name gts-identity-service -p 4728:4728 fatimabutt1899/gts-identity-service:1.0.0** |
| Check if container is running | | **sudo docker ps** |
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| Run existing container | | sudo docker start gts-identity-service-2 |
|  | |  |
| Stop and Remove running container | | sudo docker stop gts-resume-upload-service-2  sudo docker rm gts-resume-upload-service-2 |
|  | |  |
| Create the systemd service file | | **sudo nano /etc/systemd/system/gts-identity-service.service** |
| Add the following content to the service file | | **[Unit]**  **Description=GTS Identity Service**  **After=docker.service**  **Requires=docker.service**  **[Service]**  **Restart=always**  **ExecStart=/usr/bin/docker start -a gts-identity-service**  **ExecStop=/usr/bin/docker stop -t 2 gts-identity-service**  **[Install]**  **WantedBy=default.target** |
|  | |  |
| Reload systemd to pick up the new service file | | **sudo systemctl daemon-reload** |
| Enable the service to start on boot | | **sudo systemctl enable gts-identity-service** |
| Start the service | | **sudo systemctl start gts-identity-service** |
| Check the status of the service | | **sudo systemctl status gts-identity-service** |
|  | |  |
| Reboot your EC2 instance to test | | **sudo reboot** |
| verify that the service is running | | **sudo systemctl status gts-identity-service** |