Jenkins with Docker Swarm #1

I. Set up:
- 1 Jenkins node
- 1 master node
- 2 workers node

II. Pre-Activities

- Copy Jenkins ssh public key to ./ssh/authorized_keys in Docker swarm manager node.
- Test connection between Jenkins and Docker swarm manager: remote ssh from Jenkins to Docker swarm ssh root@swarm_ip

III. Process

- Create a directory in Docker Swarm Manager root dir: deploy and create a deploy.sh:
  ```
  if docker service ls --filter "name=web_service" | grep -q web_service; then
      docker service rm web_service
      echo "Existing service 'web_service' removed."
  else
      echo "Service 'web_service' does not exist."
  fi
  docker service create --name web_service --replicas 3 -p 8089:80
  tanghai/web_service:1.0.0
  ```

- Modify Permission
- Login to Jenkins
- Create a new Freestyle job
- Configure Github Source Code Management
- Add webhook on Github
- Build Trigger: Github Hook trigger fir GITScm Pooling
- Build Step Execute Shell:
  ```
  $docker login --username  $username --password $password
  $docker build –t tanghai/web_service:1.0.0
  $docker push tanghai/web_sevice:1.0.0
  $ssh root@$swarm_ip "~/deploy/deploy.sh"
  ```
- Try to exit and ssh remote back to docker swarm via Jenkins user to reload config