

Deploy Docker Images of GoCD on Linux

Step-by-step guide

1. Start the go-server container

Start the server container

```
[xinzhang@xzhang-qua ~]$ docker run -d -p8153:8153 -p8154:8154 -v $HOME/godata:/godata -v $HOME:/home/go
--name server gocd/gocd-server:v17.8.0
Unable to find image 'go.cd/gocd-server:v17.7.0' locally
v17.7.0: Pulling from gocd/gocd-server
88286f41530e: Pull complete
71d12c6334ab: Pull complete
12a8fa488626: Pull complete
ec77eb2a9018: Pull complete
Digest: sha256:4bae59d687c136d659fe07ddd8c02bf4afe3137e193db3a1bd50cb7c27a60585
Status: Downloaded newer image for gocd/gocd-server:v17.7.0
f90feb1c559d26370ca73ea01fd9df259890f969edf2ab2cc1b46169a6717a78
```

godata

We use \$HOME/godata as the place to let the **GoCD server** store all configuration, pipeline history database, artifacts, plugins, and logs inside /godata of GoCD server; The SSH private keys of \$HOME/.ssh/id_rsa.pub is also used by GoCD server (/home/go/.ssh/id_rsa.pub) to connect the repositories

2. Check if the server container is running

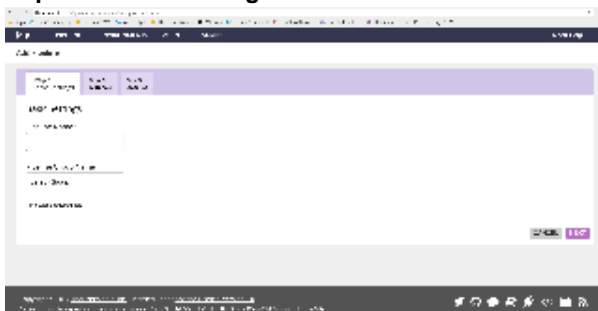
show the container status

```
[xinzhang@xzhang-qua ~]$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED
18a74a098262	go.cd/gocd-server:v17.7.0	"/docker-entrypoint..."	4 seconds ago
seconds	0.0.0.0:8153-8154->8153-8154/tcp	server	Up 2

3. open browser with <https://localhost:8154> or <http://localhost:8153>, the GUI of GoCD should be up

<http://localhost:8153/go>



4. Start the go-agent container, use the go-agent docker image generated by [Building Docker image of GoCD-agent for JEDI](#)

please check the ADMIN Config XML agentAutoRegisterKey="XXXXX", put the key at "-e AGENT_AUTO_REGISTER_KEY=XXXXX"

start go-agent container

```
[xinzhang@xzhang-qua ~]$ docker run -itd -e GO_SERVER_URL=https://$(docker inspect --format='{{(index (index .NetworkSettings.IPAddress))}}' server):8154/go -e AGENT_AUTO_REGISTER_KEY=aa586c46-8e3c-4cab-8baa-07c0c7cc671d -e AGENT_AUTO_REGISTER_RESOURCES=ubuntu,gnu,openmpi -e AGENT_AUTO_REGISTER_ENVIRONMENTS=JEDI -e AGENT_AUTO_REGISTER_HOSTNAME=iris -v $HOME/goagent0:/godata -v $HOME:/home/go --name iris weatherlab/docker-gocd-agent-ubuntu-16.04
Unable to find image 'weatherlab/docker-gocd-agent-ubuntu-16.04:latest' locally
latest: Pulling from weatherlab/docker-gocd-agent-ubuntu-16.04
e0a742c2abfd: Pull complete
486cb8339a27: Pull complete
dc6f0d824617: Pull complete
4f7a5649a30e: Pull complete
672363445ad2: Pull complete
169917f66413: Pull complete
54c4db2ce9ea: Pull complete
bf1431f0b237: Pull complete
f01ddcac8f95: Pull complete
c6036db747db: Pull complete
Digest: sha256:b9bb36b90d992b0d34bcf6a1523a69e85022bf3936afd825281e1afa8da3754c
Status: Downloaded newer image for weatherlab/docker-gocd-agent-ubuntu-16.04:latest
98ab6a66085bd8332a2225239b5fd5369e1c9c665ed8a160eae66343fa20ec02
```



godata

We use **\$HOME/goagent0** as the place to let the **GoCD agent** store all configuration, logs and perform builds inside **/godata** of GoCD agent; The SSH private keys of **\$HOME/.ssh/id_rsa.pub** is also used by GoCD agent (**/home/go/.ssh/id_rsa.pub**) to connect the repositories

5. Check if the agent container is running

check the container status

```
[xinzhang@xzhang-qua ~]$ docker ps
```

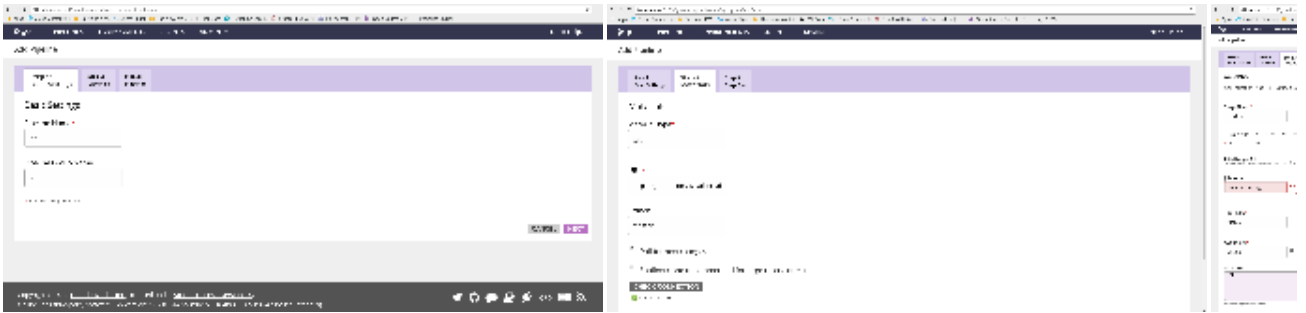
CONTAINER ID	IMAGE	COMMAND	NAMES
98ab6a66085b	weatherlab/docker-gocd-agent-ubuntu-16.04	"/docker-entrypoint..."	iris
18a74a098262	gocd/gocd-server:v17.7.0	"/docker-entrypoint..."	server

6. Click the "AGENTS should present

AGENTS



7. Setup the first pipelines



8. Add second agent, please check the ADMIN Config XML agentAutoRegisterKey="XXXXXX", put the key at "-e AGENT_AUTO_REGISTER_KEY=XXXXXX"

Add second agent

```
[xinzhang@xzhang-qua ~]$ docker run -itd -e GO_SERVER_URL=https://$(docker inspect --format='{{(index (index .NetworkSettings.IPAddress))}}' server):8154/go -e AGENT_AUTO_REGISTER_KEY=dce719c0-3d66-4cc2-adae-6a583f441ebb -e AGENT_AUTO_REGISTER_RESOURCES=ubuntu,gnu,openmpi -e AGENT_AUTO_REGISTER_ENVIRONMENTS=JEDI -e AGENT_AUTO_REGISTER_HOSTNAME=bill -v $HOME/goagent1:/godata --name bill weatherlab/docker-gocd-agent-ubuntu-16.04 49bbda6ed3354d3e3b12fb2c7940d17e1e5abf5a582eac42ab40048464cdd57d
```

```
[xinzhang@xzhang-qua ~]$ docker ps
```

CONTAINER ID	IMAGE	PORTS	COMMAND	NAMES	
49bbda6ed335	weatherlab/docker-gocd-agent-ubuntu-16.04		"/docker-entrypoint..."	bill	10 seconds ago Up 8 seconds
78a32cf26d50	weatherlab/docker-gocd-agent-ubuntu-16.04		"/docker-entrypoint..."	iris	9 minutes ago Up 9 minutes
e4c533ddda29	gocd/gocd-server:v17.7.0	0.0.0.0:8153-8154->8153-8154/tcp	server		11 minutes ago Up 11 minutes

```
[xinzhang@xzhang-qua ~]$ rm $HOME/godata/config/guid.txt
```

Add second agent



Related articles

- [Docker Quick Tutorial](#)
- [Deploy Docker Images of GoCD on Linux](#)
- [Building Docker image of GoCD-agent for JEDI](#)