1. React js applicaton to deploy docker hub using jenkins

Jenkins install and Running:

```
[ec2-user@ip-172-31-8-138 ~]$ sudo amazon-linux-extras install java-openjdk11 -y

Installing java-11-openjdk
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-java-openjdk11 amzn2extra-kernel-5.10 jenkins
19 metadata files removed
8 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                                                        |
amzn2extra-docker                                                                 |
amzn2extra-java-openjdk11                                                         |
amzn2extra-kernel-5.10                                                            |
jenkins                                                                           |
```

```
Complete!
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl enable jenkins
Created symlink from /etc/systemd/system/multi-user.target.wants/jenkins.service to /usr/lib/sys
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl start jenkins
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2023-06-29 18:21:13 UTC; 3s ago
 Main PID: 7843 (java)
    Tasks: 45
   Memory: 1.2G
   CGroup: /system.slice/jenkins.service
```

Docker install and Running :

```
[ec2-user@ip-172-31-8-138 ~]$ sudo yum install docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package docker.x86_64 0:20.10.23-1.amzn2.0.1 will be installed
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Processing Dependency: pigz for package: docker-20.10.23-1.amzn2.0.1.x86_64
--> Running transaction check
---> Package containerd.x86_64 0:1.6.19-1.amzn2.0.1 will be installed
---> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed
---> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
---> Package runc.x86_64 0:1.1.7-1.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================
 Package              Arch            Version                     Repository              Size
=====================================================================================================
Installing:
 docker               x86_64          20.10.23-1.amzn2.0.1        amzn2extra-docker       41 M
Installing for dependencies:
 containerd           x86_64          1.6.19-1.amzn2.0.1          amzn2extra-docker       27 M
 libcgroup            x86_64          0.41-21.amzn2               amzn2-core              66 k
 pigz                 x86_64          2.3.4-1.amzn2.0.1           amzn2-core              81 k
 runc                 x86_64          1.1.7-1.amzn2               amzn2extra-docker       2.9 M

Transaction Summary
=====================================================================================================
```

```
[ec2-user@ip-172-31-8-138 ~]$ sudo mv docker-compose-$(uname -s)-$(uname -m) /usr/local/bin/docker-compose
[ec2-user@ip-172-31-8-138 ~]$ sudo chmod -v +x /usr/local/bin/docker-compose
mode of '/usr/local/bin/docker-compose' changed from 0644 (rw-r--r--) to 0755 (rwxr-xr-x)
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl enable docker.service
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.ser
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl enable docker.service
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl start docker.service
[ec2-user@ip-172-31-8-138 ~]$ sudo systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
   Active: active (running) since Thu 2023-06-29 18:15:28 UTC; 7s ago
     Docs: https://docs.docker.com
  Process: 6706 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 6704 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 6708 (dockerd)
    Tasks: 8
   Memory: 20.8M
```
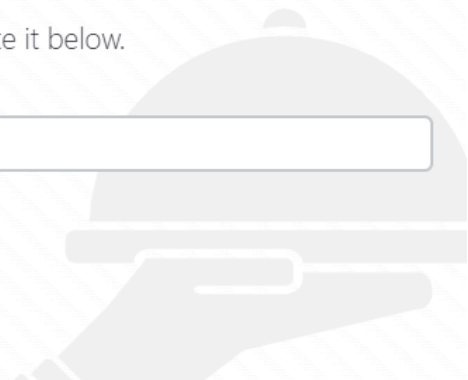
Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (**not sure where to find it?**) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

[   ]

Install git local machine :

Yum install git -y

```
ec2-user@ip-172-31-8-138 .ssh]$ sudo yum install git -y
oaded plugins: extras_suggestions, langpacks, priorities, update-motd
mzn2-core
Resolving Dependencies
--> Running transaction check
---> Package git.x86_64 0:2.40.1-1.amzn2.0.1 will be installed
--> Processing Dependency: perl-Git = 2.40.1-1.amzn2.0.1 for package: git-2.40.1-1.amzn2.
--> Processing Dependency: git-core-doc = 2.40.1-1.amzn2.0.1 for package: git-2.40.1-1.am
--> Processing Dependency: git-core = 2.40.1-1.amzn2.0.1 for package: git-2.40.1-1.amzn2.
--> Processing Dependency: perl(Term::ReadKey) for package: git-2.40.1-1.amzn2.0.1.x86_64
--> Processing Dependency: perl(Git) for package: git-2.40.1-1.amzn2.0.1.x86_64
--> Running transaction check
---> Package git-core.x86_64 0:2.40.1-1.amzn2.0.1 will be installed
---> Package git-core-doc.noarch 0:2.40.1-1.amzn2.0.1 will be installed
---> Package perl-Git.noarch 0:2.40.1-1.amzn2.0.1 will be installed
--> Processing Dependency: perl(Error) for package: perl-Git-2.40.1-1.amzn2.0.1.noarch
---> Package perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2 will be installed
--> Running transaction check
---> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed
```

- [ ] Build periodically ?

- [ ] Generic Webhook Trigger ?

- [ ] GitHub Branches

- [ ] GitHub Pull Requests ?

- [x] GitHub hook trigger for GITScm polling ?

- [ ] Poll SCM ?

- [ ] Quiet period ?

- [ ] Trigger builds remotely (e.g., from scripts) ?

Advanced Project Options

Successfull deployed application to docker hub

Using 1 of 1 private repositories. Get more

General   Tags   Builds   Collaborators   Webhooks   Settings

ⓘ   Add a short description for this repository   Update
The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

perumal007/task01 🌐

Updated less than a minute ago

This repository does not have a description ✏️

Docker commands   Public View

To push a new tag to this repository:

```
docker push perumal007/task01:tagname
```

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
● latest	🐧	Image	---	a minute ago

See all

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. Read more about automated builds ↗.

Upgrade

Repository overview ⓘ

Output

BMI calculator

Weight: **20 kg**

20 ⏷

Height: **120 cm**

120

BMI: 14

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Build History   trend ⌄

Filter builds...   /

⊗ **react**

Stage View

		Checkout	Grant Permissions	Build Docker Image	Push Docker Image	Run Docker Container
Average stage times: (Average full run time: ~19s)		703ms	324ms	5s	10s	615ms
#10 Feb 17 20:38	No Changes	660ms	312ms	5s	6s	624ms
#9						