git branch -d <name> git branch -m <old> <new> git checkout <name> git log --author="username" git log --oneline git status git init git add . Terminal Commands git merge <name> (From parent branch) git config --global --edit git config --global --list Git Commands git config --global user.name "NAME" git config --global user.email "EMAIL" Docker Compose - Wordpress & MySQL git checkout -b <name> git diff --oneline git diff --staged git commit -m "Message docker build -t myimage:1.0 git reset <commit_hash> git revert <commit_hash> WSQL_MOT_PASSAGE: pardpress WSQL_MSRASE: wordpress WSQL_SER: wordpress WSQL_PASSAGE: wordpress networks: - wpsite environment: wombress_DB_MST: db:3366 wombress_DB_USER: wordpress wombress_DB_PASSwomb: wordpress image: mysql:5.7 db_data:/var/lib/mysql

EC2 Ubuntu

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Freestyle project

Provide Girt IRI.

Build Step: "Novel Role level mavent Tangets - Claan & Install

Build Step: "Novel Role I level mavent Tangets - Claan & Install

A chrise Artifacts."/

Pasts Build Actions: Build Other Projects - Test Project

Test project - Obele wardspace before build starts

Build Step: - Copy artifacts from another project."/" - Latest Successful Build Innoce Top Level Maven tangets: "Test

Add Pests Build Actions: - Acribet the Artifacts."/

Deptyly Project: - Copy Artifacts: "For Webl

Path: - webpath

Path: - webpath

Calcast Townsy: American or Constrainer

Build Step: - Copy wards not a container
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kubectl get deployment
kubectl get pods
kubectl scale deployment mynginx -
kubectl get deployment
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Dependency in ponzon (Tomcat Web)
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Apadema (Index)
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Pourh of Othub
kubectl delete deployment mynginx
minikube stop
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                                                                       minikube service mynginx --url
minikube dashboard
                                                                                                                                                                               kubectl get pods
kubectl describe pods <pod-name>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          kubectl create deployment mynginx --image-nginx
kubectl get deployment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          minikube start --driver=docker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             docker-compose stop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ssh-keygen -t rsa -C <email>
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                                                                                                                                                                                                                                                                                                                                                                                                                                          cubectl get pods
                                                                                                                                               ubectl expose deployment mynginx --type=NodePort --port=80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Build Pipeline View - Up / Down stream config - Initial job
Run Initial Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cat version in Container
```

bat "mvn install -f mavendemo

```
pipeline {
agent any
                                                                                                                                                                                                                                                                                                                                                                               Build Script
                                                                                                                                                                                                                          git 'Default'
jdk 'JAVA_HOME'
                                                                                                                                                                                                                                                                      maven 'MAVEN_HOME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      stage("Hi") {
                                                                                                                                                   itage('git repo & clean') {
                                                                    bat "git clone https://github.com/username/mavendemo.git"
bat "mvn clean -f mavendemo"
                                                                                                           bat "if exist mavendemo ( rmdir /s /q mavendemo )"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                echo "Hi"
                                   WORKDIR /name
                                                                                                                                                                                                                                                                                                                                                                                                 docker -v

docker run -d -p 80:80 docker/getting-started
docker run hello-world
CMD node app.j
                                                                                                                                      console.log("Hello World")
                                                                                                                                                          App.js
                                                                                                                                                                                         Docker File
                                                                                                                                                                                                            docker login
docker push saikrishna7004/ubuntu
                                                                                                                                                                                                                                                           docker images
                                                                                                                                                                                                                                                                            docker exec -it <hash> bash
docker commit <hash> username/ubuntu
                                                                                                                                                                                                                                                                                                                                        docker pull ubuntu
docker run -ti -d ubuntu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Docker
                                                                                                                                                                                                                                                                                                                      docker ps -a
```

Git Configuration

pipeline {
 agent any
 stages {

stage("Hello") {

steps {

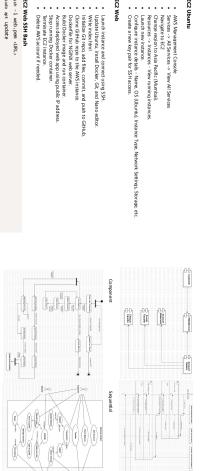
steps {

bat "mvn package -f mavendemo

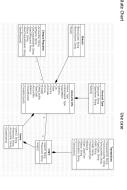
Jenkins Script

Go to /manager (Web Project)

Software Engineering Lab Cheatsheet



Laura interace and connect using SSH Ludder Uburn Ludder Charles (Ludder Charles) (Lud



Class

AWS Free Tier
 Sign Up
 Contact into
 Contact into
 Billing Info
 Confirm Identity
 Basic Support - Free
 Go to AWS Management Console

AWS

Username: nagiosadmin Password: nagios

Set Up Account

docker pull jasonrivers/nagios:latest docker run --name nagios4 -p 8888:80 jasonrivers/nagios:latest

sudo apt-get install docker.io sudo apt install git sudo apt install nano

EC2 Web SSH Bash

sudo apt update ssh -i web.pem <URL>

git clone <URL>

nano Dockerfile sudo docker build -t mywebapp sudo docker run -d -p 80:80 mywebapp:latest

sudo docker ps

sudo docker stop <hash>

EC2 Web Docker File

Software Engineering Lab Cheatsheet

Git Configuration

git config --global user.name "NAME" git config --global user.email "EMAIL"

Git Commands

git commit -m "Message" git init git help

git log git log --authon="username" git log --oneline

git config --global --edit git config --global --list

git revert <commit_hash>
git reset <commit_hash> git diff --oneline git diff --staged git diff

git branch -m <old> <new>

git merge <name> (From parent branch Terminal Commands

git checkout -b <name>

ssh-keygen -t rsa -C <email> cat ~/.ssh/id_rsa.pub git remote -v git remote add origin <URL> GitHub Commands git push origin main notepad filenam 1s -latr

Maven

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Jenkins

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Build Storp. Invoide To level maven Tangets - Clean & Install
Achieve Additionary and Provide Cit Uttl.
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Jenkins Script

Go to /manager (Web Project)

agent any stages { stage("Hello") { echo "Hi" stage("Hi") { steps { **Build Script**

bat "mvn package -f mavendemo

bat "mvn test -f mav

docker -v docker run -d -p se: 80 docker/getting-started docker run hello-world

Docker

bat "if exist mavendemo (rmdir /s /q mavendemo)" bat "git clone https://github.com/username/mave
bat "mvn clean -f mavendemo" steps { bat "mvn install -f mavenden stage('git repo & clean') { steps { maven 'MAVEN_HOME' git 'Default' jdk 'JAVA_HOME' stage('install') { pipeline { agent amy

docker login docker push saikrishna7004/ubuntu Docker File

docker ps -a docker exec -it chash> bash docker commit chash> username/ubuntu

docker pull ubuntu docker run -ti -d ubuntu

App.js

console.log("Hello World") Dockerfile

:ROM node:alpine

WORKDIR /name COPY . /name

MD node app.js

docker build -t myimage:1.0

docker images

Docker Compose - Wordpress & MySQL

docker-compose.yml

version: '3'

image: mysql:5.7 services: # Database

- db_data:/var/lib/mysql

environment:
WYSQL_BOOT_BASSWORD: password
WYSQL_DATABASE: wordpress
WYSQL_ISER: wordpress
WYSQL_BSER: wordpress

networks: - wpsite

image: wordpress:latest ports:

. '8000:80'
volumes: ['./:/var/www/html']
en/ronnest:

docker-compose up -d

docker-compose stop Kubernetes

cubectl create deployment mynginx --image=nginx cubectl get deployment minikube start --driver=docker inikube status

ubectl describe pods

ubectl get deployment

<ubectl scale deployment mynginx --replicas --</p> ubectl get deployment

kubectl expose deployment mynginx -minikube service mynginx --url minikube dashboard <ubect1 describe pods <pod-name> ubectl get pods

ubectl delete deployment myngin: inikube stop

Nagios

docker pull jasonrivers/nagios:latest docker run --name nagios4 -p 8888:80 jasonrivers/nagios:latest Username: nagiosadmin Password: nagios

AWS

Set Up Account

EC2 Ubuntu

May Management Coroole
Services Algerices Verw All Services
Navigate to CL
Congretor Ask Bedick (Murba),
Change region to Ask Bedick (Murba),
Resources -> Instances -- Verw running instances.
Launch new instance
Configue rates ed beliefs -- Nave -- Os (Tuper Instance -- Nave -- Nave -- Nave -- Nave -- Nave -- Configue rates ed beliefs -- Nave -- Os (Tuper Instance -- Nave -- Na

EC2 Web

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Docker filler (TISM, Web Sewer MASTISMATICA.
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Build Docker integer and run container.
Stop running Docker container.
Stop running Docker container.
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EC2 Web SSH Bash

ssh -i web.pem cudo apt update
sudo apt update
sudo apt install docker.io
sudo apt install git
sudo apt install nano
git Clone <URL)</pre>

nano Dockerfile sudo docker build -t mywebapp sudo docker run -d -p 80:80 myw

docker stop <hash; sudo docker ps

EC2 Web Docker File

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