01. XWiki Basic and Intermediate

19 June 2025 12:17 PM

Total Exp	SKills f Tools	Last Proj
Carinus	Sec.	Sec.
Carl	F/W Net/ NG/	XWiKi (
Johan.	·Net	
Marco	·Net	
Skippie		AWS Azure
V ozeed	NG	

Mujahed Hussaini 22 Years 17 Programming Languages National Level Windows 3.1 --> VB --> MS.Net

Facebook Discovery Sony Disney MTData

PSF Member

D - Development & Operations

- FSD

 MEAN, MERN

 MS.Net

 Python

Agenda

- System
- DeploymentXwiki Features
- > Installations

Dev + Ops

Operations:

Deploy Project(Xwiki)

Xwiki:

- - Development JDK
- Runtime JRE (JVM)
- Database RDBMS
 - MySQL
- Servlet Container
 - Apache Tomcat
 - Jetty
- Download WAR
 - https://www.xwiki.org/xwiki/bin/view/Main/Download
- Configure Files
 - o Database(Username, Database name)
 - Server(Port, IP)
 - Xwiki specific Configuration XWIKI/webapps/xwiki/WEB-INF/xwiki.cfg
 - SMTP Mail server(Optional)

\$ sudo apt install docker.io -y

Development = C#.Net

o Runtime = Framework, CLR

CpWAZVW7rmRzDyu

\$ sudo su # apt update

Installation of Docker:

 ${\it \# sudo \ apt \ install \ -y \ apt-transport-https \ ca-certificates \ curl \ software-properties-common \ gnupg}$ $curl\ -fsSL\ \underline{https://download.docker.com/linux/ubuntu/gpg}\ |\ sudo\ gpg\ --dearmor\ -o\ /usr/share/keyrings/docker-archive-keyring.gpg$

sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

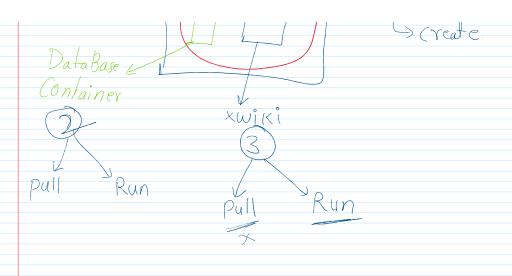
XYZ: ➤ PL - .Net

sudo apt update

sudo apt install -y docker-ce docker-ce-cli containerd.io

sudo chmod 777 /var/sock/docker*

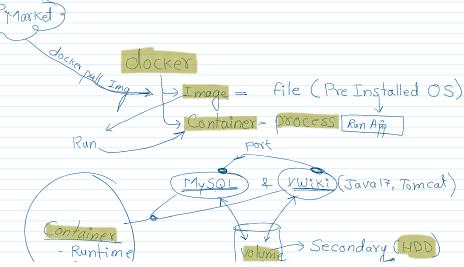
Data Base

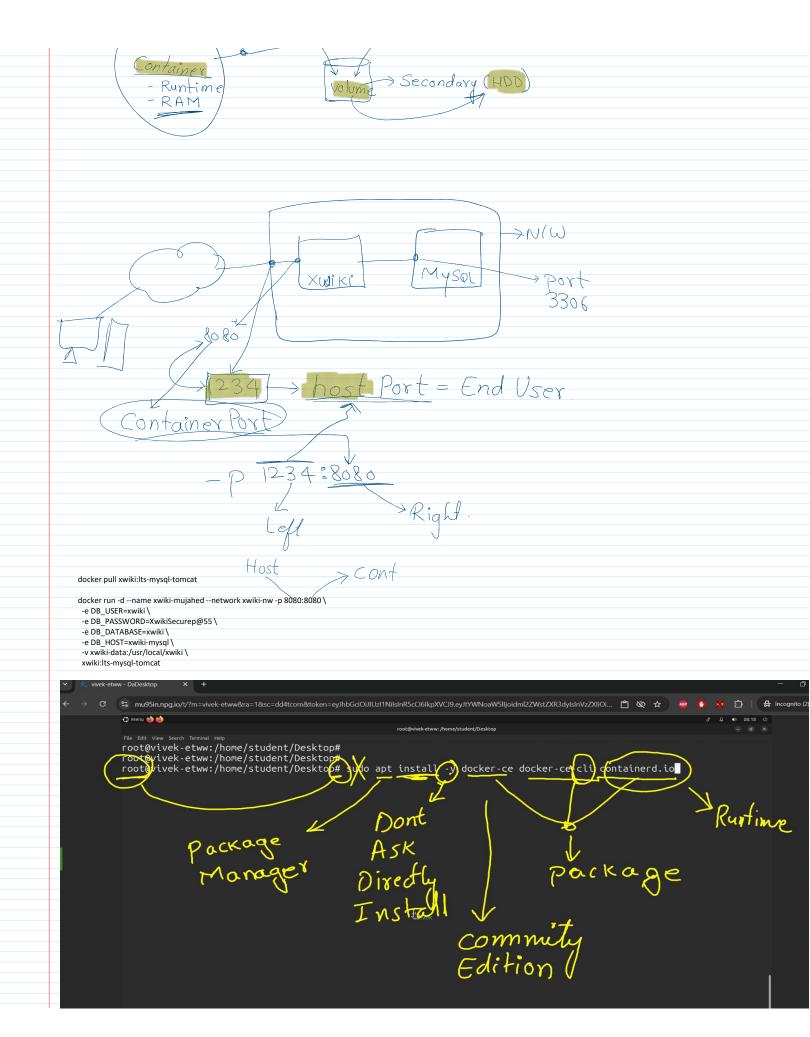


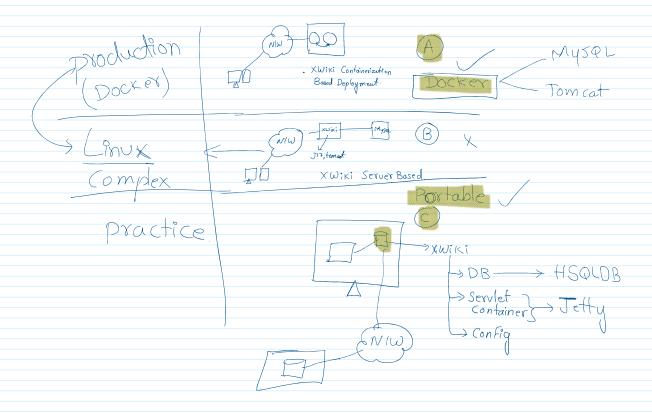
- A. Create Docker Network for Xwiki
 - a. \$ docker network Is
 - b. \$ docker network create xwiki-nw || true
 - c. \$ docker network Is
- B. Create Database(Mysql 5.7) Container(Pull --> Run)
 - a. \$ docker images
 - b. \$ docker pull mysql:5.7
 - c. \$ docker images
 - d. \$ docker ps -a
 - e. \$ docker run -d --name **xwiki-mysql-mujahed** --network xwiki-nw \
 - -e MYSQL_ROOT_PASSWORD=XwikiSecurep@55 \
 - -e MYSQL_DATABASE=xwiki \
 - -e MYSQL_USER=xwiki \
 - -e MYSQL_PASSWORD=XwikiSecurep@55 \
 - -v xwiki-mysql-data:/var/lib/mysql \
 - -p 3311:3306 \
 - mysql:5.7
 - f. \$ docker ps -a
- g. \$ docker ps C. Create Xwiki Container
 - a. \$ docker images b. \$ docker pull xwiki:lts-mysql-tomcat
 - c. \$ docker images
 - d. \$ docker ps
 - e. \$ docker run -d --name xwiki --network xwiki-nw -p 8080:8080 \
 - -e DB_USER=xwiki \
 - -e DB_PASSWORD=XwikiSecurep@55 \
 - -e DB_DATABASE=xwiki \
 - -e DB_HOST=xwiki-mysql\
 - -v xwiki-data:/usr/local/xwiki
 - xwiki:lts-mysql-tomcat

f. \$ docker ps









- 1. Check Container
- a. \$ docker ps
 Remove Running Containers a. \$ docker rm ContainerID --force
- 3. Check Downloaded Image
- a. \$ docker images
- 4. Delete it
 - a. \$ docker rmi IMG:TAG

Sinelihle - http://34.133.74.201:8080/bin/view/Main/

Ubunta 24.04 Memory= 15 GB

Resource	MySQL	XWiki	Reserved for Host
Memory	2 GB	12 GB	~1 GB
CPU	1 core	3 cores	~0.5–1 core

Run MySQL with resource limits

docker run -d --name $\mathbf{xwiki\text{-}mysql}$ --network $\mathbf{xwiki\text{-}nw}$ \

- --memory="2g" \
- --memory="2g" \
 --cpus="1.0" \
 -e MYSQL_ROOT_PASSWORD=XwikiSecurep@55 \
 -e MYSQL_DATABASE=xwiki \
 -e MYSQL_USER=xwiki \
 -e MYSQL_PASSWORD=XwikiSecurep@55 \

- -v xwiki-mysql-data:/var/lib/mysql \

mysql:5.7

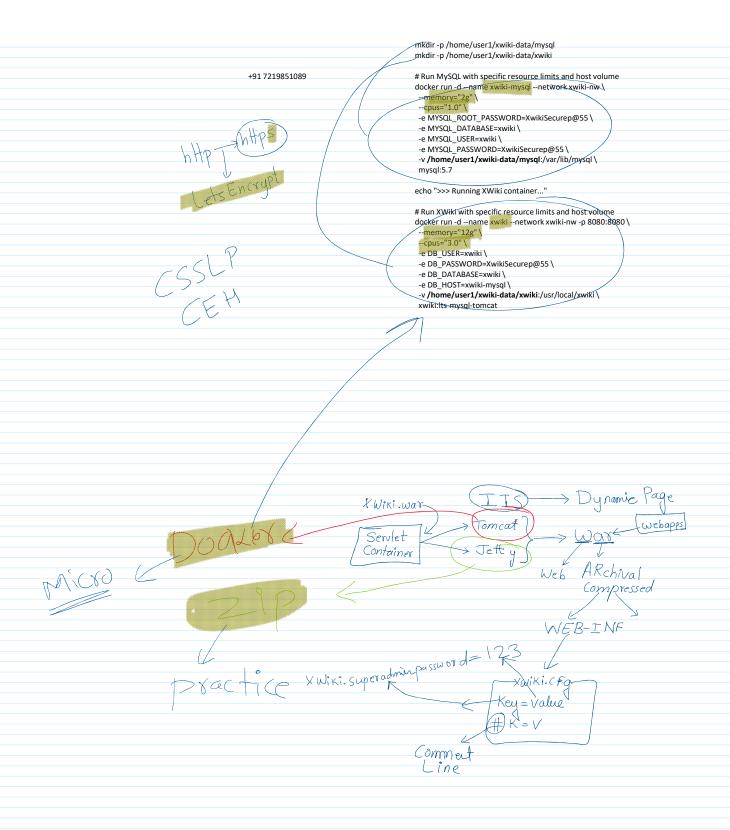
echo ">>> Running XWiki container..."

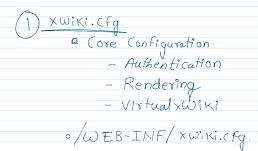
Run XWiki with most of the remaining system resources docker run -d --name xwiki --network xwiki-nw -p 8080:8080 \

- --memory="12g"\
- --cpus="3.0" \
- -e DB_USER=xwiki \
- -e DB_PASSWORD=XwikiSecurep@55 \
- -e DB_DATABASE=xwiki \
- -e DB_HOST=xwiki-mysql\
- -v xwiki-data:/usr/local/xwiki \

xwiki:lts-mysql-tomcat

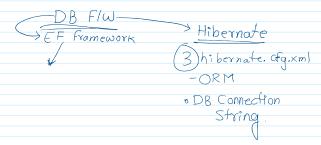
16 GB, 4 Core's 2GB=1 (26B = 3 Cores ka)





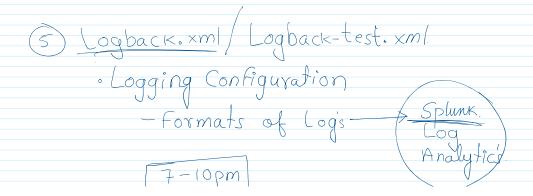
/opt/tomcat/webapps/xwiki/WEB-INF/xwiki.cfg



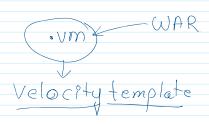


4 Web.xml

- Web App Config · Servlet · Filters
 - · Listener's







Application Resources. Properties Lacalization

> .War = XWiki · XAR = Extension

> > Extension add functionality

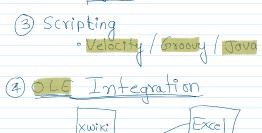
1 Application

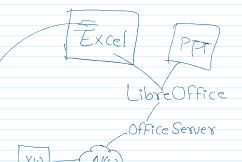
- Pre Built mini-apps. Meeting ManagerKnowledge baseBlog

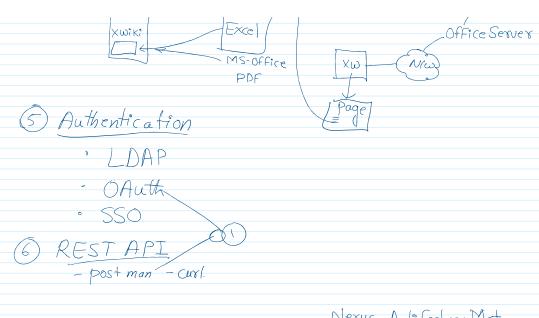
- AWM = App Within Minute's

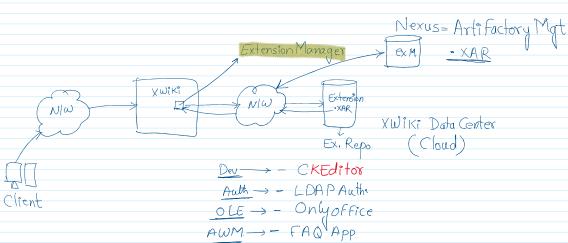
2 Macros
Reusable piece of Content Used in Page

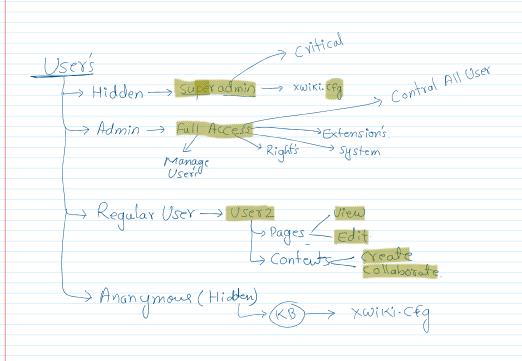












Rights

- Wiki All group

- El Ez

- Client: