#### How to deploy xdm App Server Container to Azure App Service?

- Complete the Tutorial of "Install Semarchy xDM on Docker" https://www.semarchy.com/tutorials-content/quick-install-docker/#0
- 2. Modify the docker-compose.yml, we will be pointing to an existing Azure SQL DB instead of spinning up a postgres DB

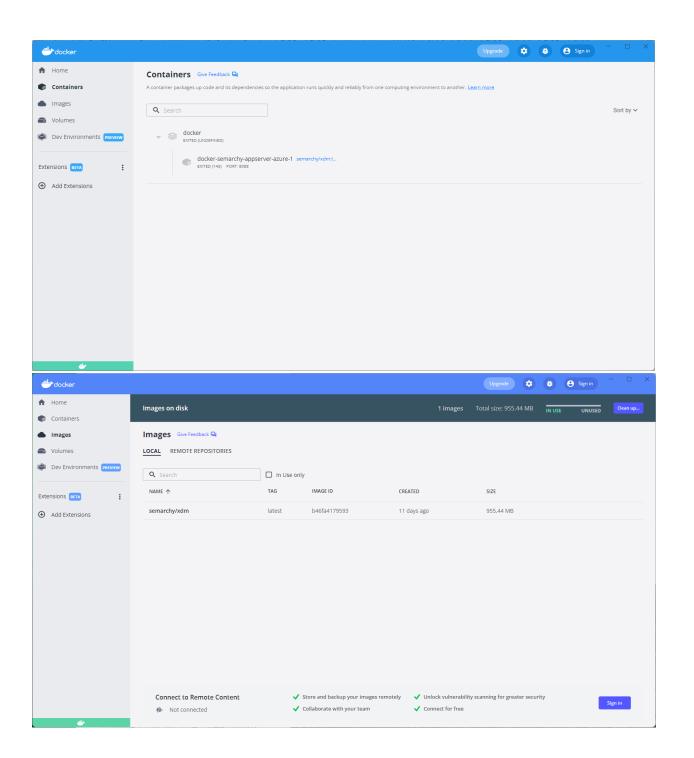
```
version: '3.8'
networks:
 semarchy-net:
   driver: bridge
services:
  semarchy-appserver-azure:
    image: semarchy/xdm:latest
    ports:
     - '8088:8080'
    networks:
      - semarchy-net
    healthcheck:
      test: ["CMD", "curl", "-f", "http://semarchy-appserver-
azure:8088/semarchy/api/rest/probes/started"]
    environment:
      # Repository connection, pointing to the semarchy-database service.
      # Reconfigure this connection to use a separate database.
      # Azure Database for PostgreSQL
      # Azure SQL Database
      - XDM_REPOSITORY_DRIVER=com.microsoft.sqlserver.jdbc.SQLServerDriver
XDM REPOSITORY URL=jdbc:sqlserver://azuresqldb.database.windows.net:1433;databaseName=sem
archy_repository
      - XDM_REPOSITORY_USERNAME=semarchy_repository
      - XDM REPOSITORY PASSWORD= (Your Password)
      # Repository read-only datasource credentials
      - XDM REPOSITORY_READONLY_USERNAME=semarchy_repository_ro
      - XDM_REPOSITORY_READONLY_PASSWORD=(Your Password)
      # Setup Token
```

- # SEMARCHY\_SETUP\_TOKEN=mySecretValue
- # Add other startup configuration properties below. For example, secrets management configuration
- # See http://semarchy.com/doc/semarchy-xdm/xdm/5.3/Install/startup-configuration.html

#### volumes:

- # Volume for additional JAR libraries
- ./additional-libraries:/usr/local/tomcat/additional-libraries
- 3. Run the following command, a docker container and image will be stored in the local docker desktop:

docker compose up --attach semarchy-appserver-azure --no-log-prefix



### 4. Create a Container Registry in Azure, say apac4xdm

Home > Container registries >

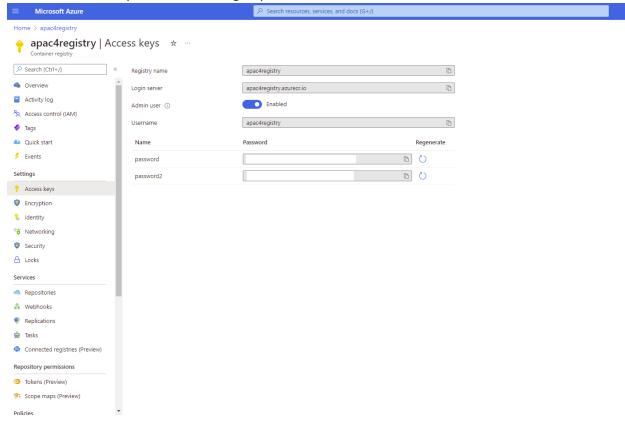


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- 5. Install the Azure Command Line https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest
- 6. Login to Azure Container Registry in Command Prompt

C:\>az login
C:\>az acr login --name apac4registry
Login Succeeded

7. Create an Access Keys in Container Registry



8. Login to the Container Registry using the Access Keys as passwords

```
C:\>docker login apac4registry.azurecr.io
Username: apac4registry
Password:
Login Succeeded

C:\>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
semarchy/xdm latest 4d3c2d55998e 6 days ago 955MB
```

#### 9. Tag the local docker image to Azure Container Registry

```
C:\>docker tag semarchy/xdm:latest apac4registry.azurecr.io/semarchy/xdm

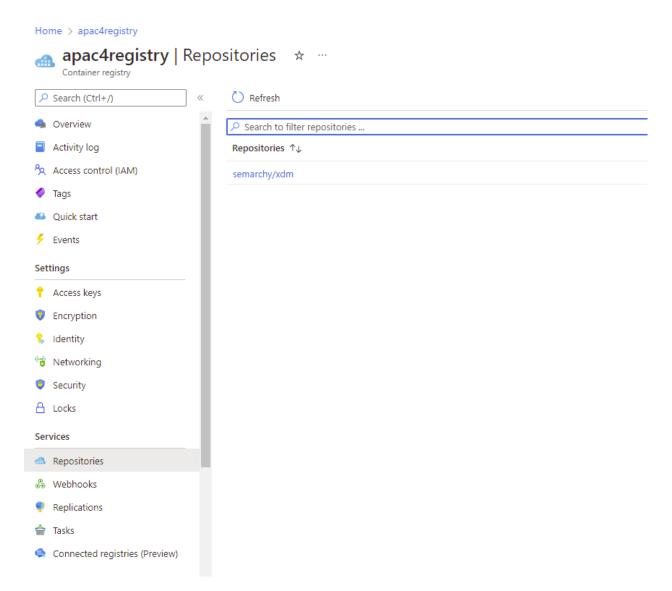
C:\>docker images
REPOSITORY TAG IMAGE ID CREATED
SIZE

apac4registry.azurecr.io/semarchy/xdm latest 4d3c2d55998e 6 days ago 955MB
semarchy/xdm latest 4d3c2d55998e 6 days ago 955MB
```

#### 10. Push the docker local image onto Azure Container Registry

C:\>docker push apac4registry.azurecr.io/semarchy/xdm

Then you can see the Repositories of the Azure Container Registry contains those docker image

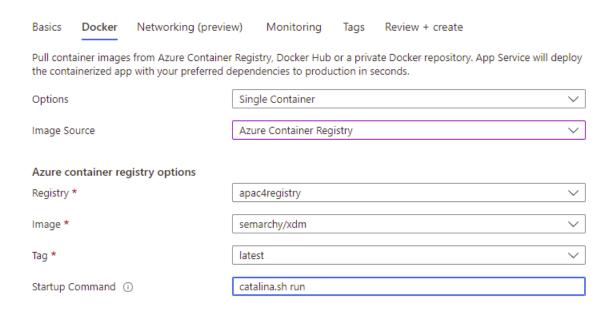


10 . Create the web App for xdm, choose Docker Container

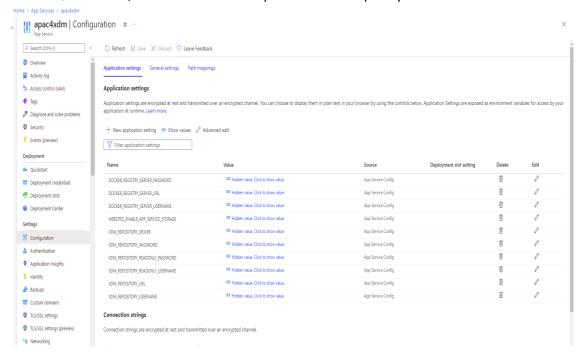
# Create Web App ....

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	Create new								
Instance Details									
Need a database? Try the new Web + Database experience. 🗗									
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## Create Web App ...



11. Configure the App Service Application Settings, here are environment variables needed for Azure SQL Database, refer to the values in your docker-compose.yml file.



Make sure setting-up firewall rules on the Azure SQL DB that allows the App Service to connect

Then start the app service and access <a href="https://apac4xdm.azurewebsites.net/semarchy/login.do">https://apac4xdm.azurewebsites.net/semarchy/login.do</a>