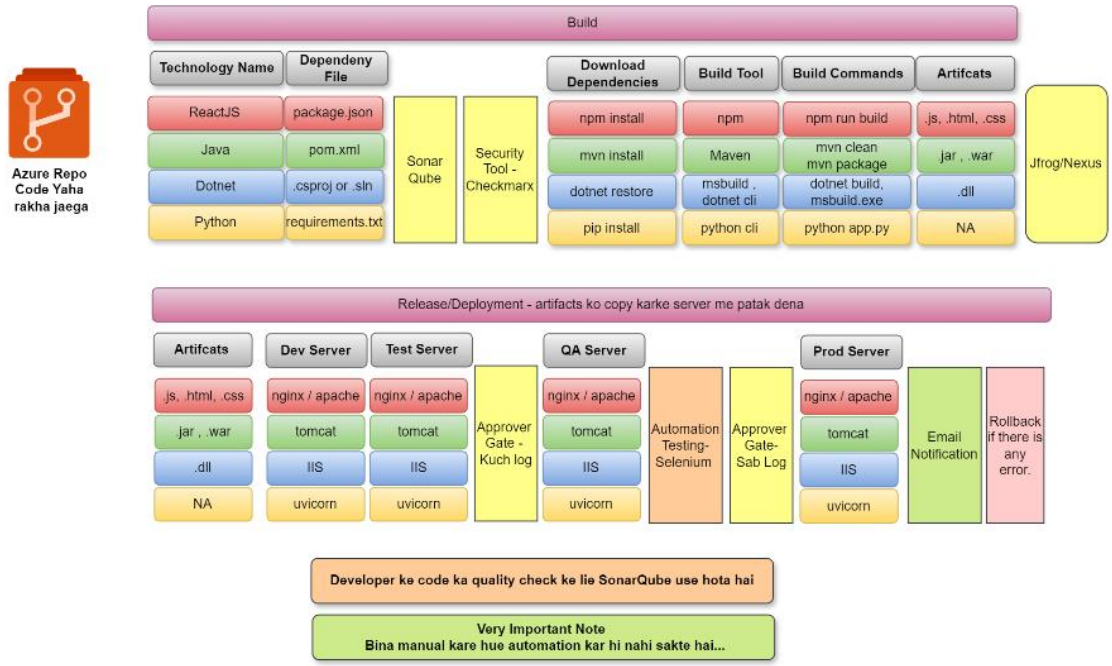
4 August 2024



1) Arte factory package management strategies – Packages are kept on jfrog and nexus tools from google. And developers use packages from jfrog and nexus tools instead of directly fetching packages from google, which increases the security and reduces vulnerability.

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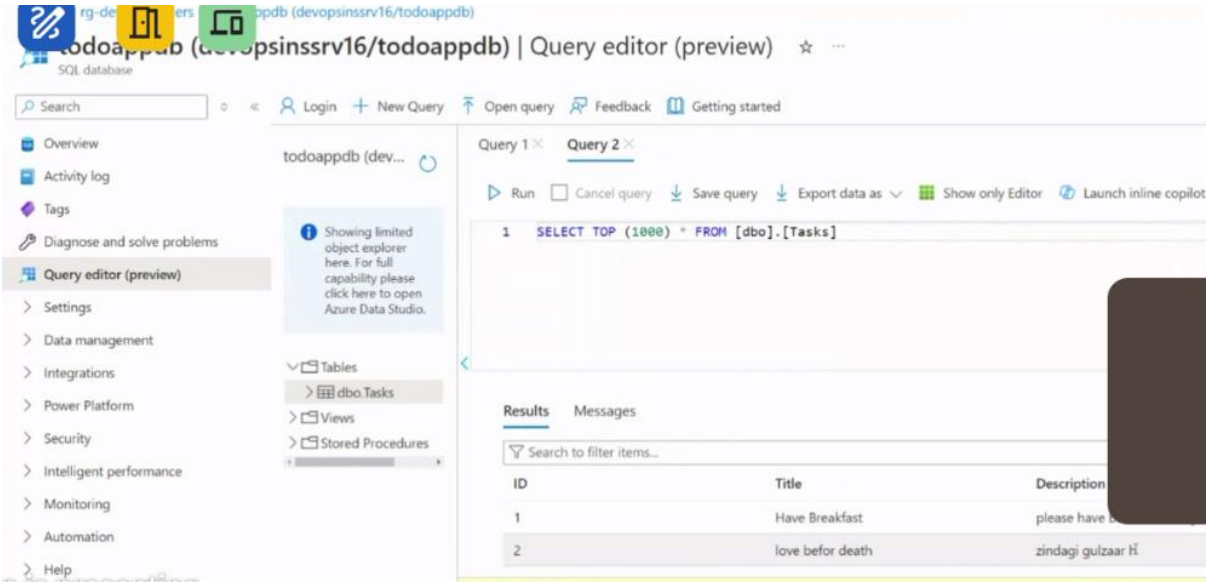
AGENDA – Create SQL DB



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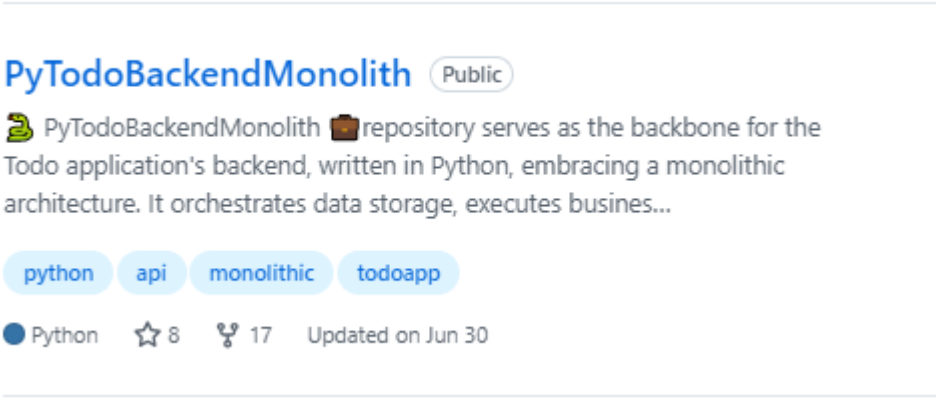
AGENDA – SETTING BACKEND CODE ON BACKEND VM



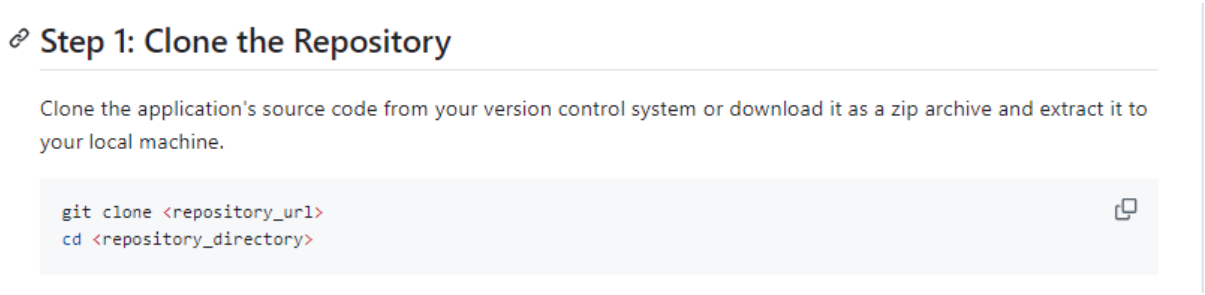
2) Now we have to put backend code on backend VM

3) ssh into backend vm and just work as per read me file

4) **SEARCH -** How to Install Python Pip on Ubuntu 20.04 and then git clone the repository

https://linuxize.com/post/how-to-install-pip-on-ubuntu-20.04/

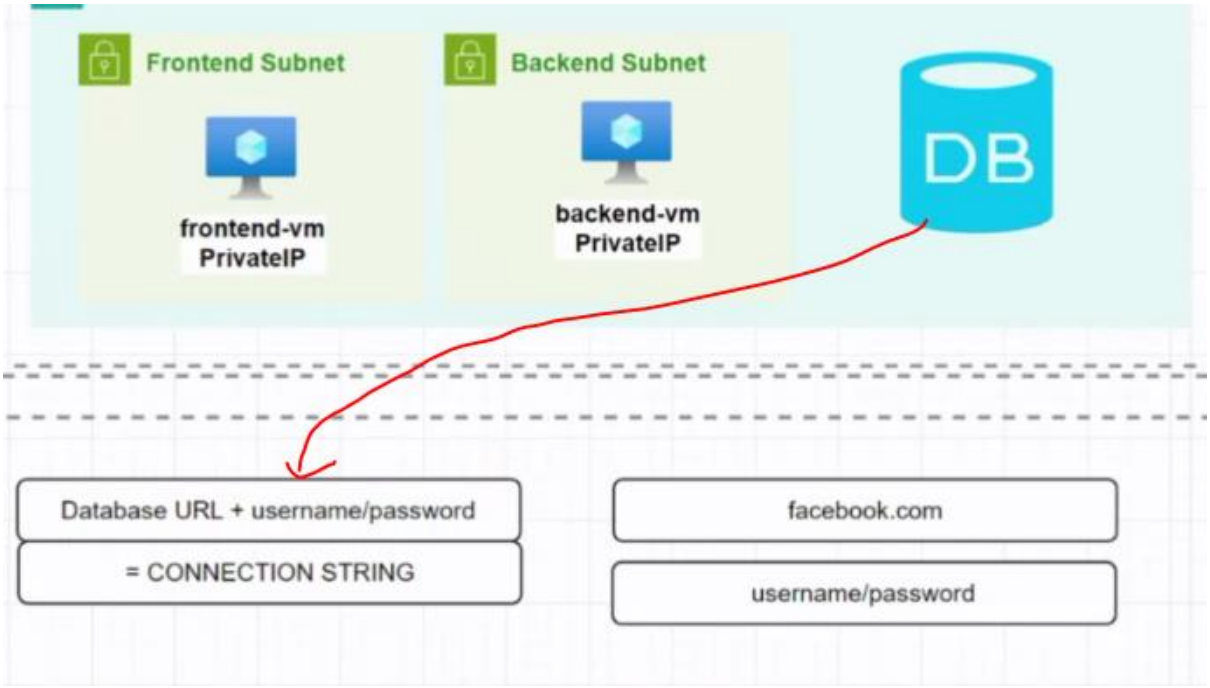
```
devopsadmin@backendvm:~$ pip3 --version
pip 20.0.2 from /usr/lib/python3/dist-packages/pip (python 3.8)
devopsadmin@backendvm:~$
```



ls

cd PyTodoBackendMonolith$

5) Connection string = username + password for database



6) **nano app.py**

Update connection string version as 17 and username and password also as given in code

7) Run given commands

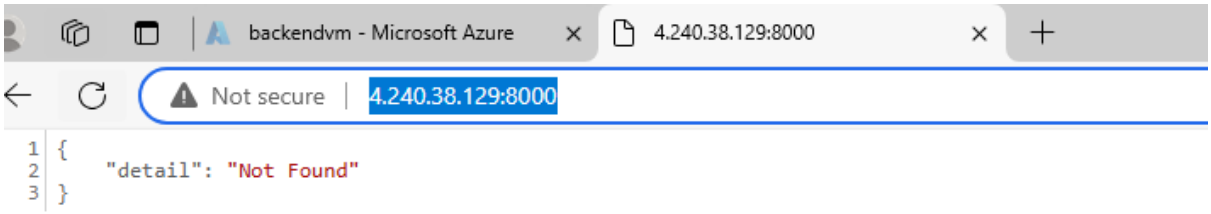
Step 3: Run Below Commands to make the application running

To Run the Application, open a terminal, navigate to the project directory, and run the following command:

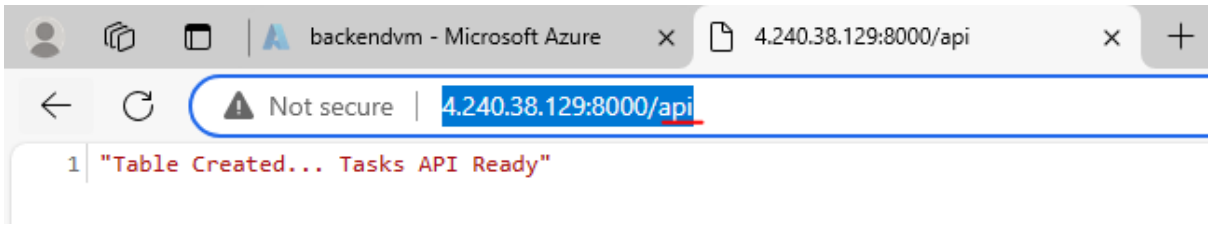
```
sudo su
apt-get update && apt-get install -y unixodbc unixodbc-dev
curl https://packages.microsoft.com/keys/microsoft.asc | apt-key add -
curl https://packages.microsoft.com/config/debian/10/prod.list > /etc/apt/sources.list.d/mssql-release.
apt-get update
ACCEPT_EULA=Y apt-get install -y msodbcsql17
pip install -r requirements.txt
uvicorn app:app --host 0.0.0.0 --port 8000
```

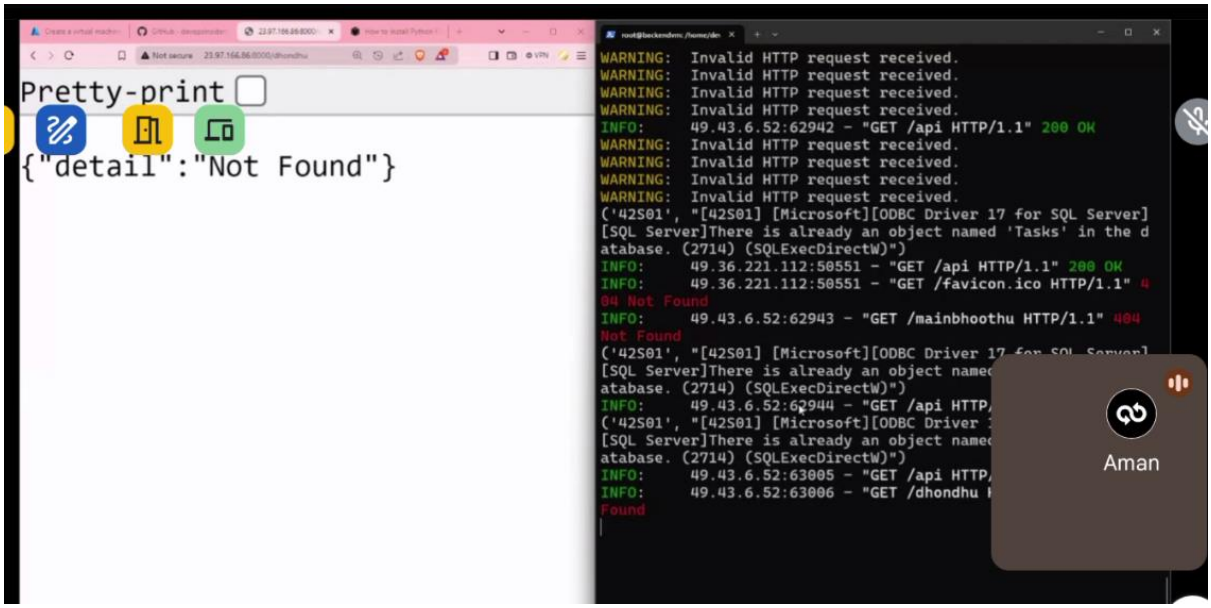
8) Run ip of backend vm and port of db

4.240.38.129:8000



4.240.38.129:8000/api





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AGENDA – SETTING FRONTEND CODE ON FRONTEND VM

1) ssh into frontend vm

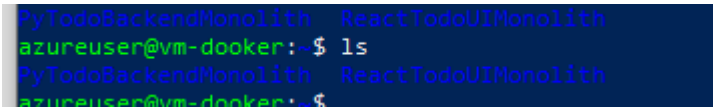
2) Read readme file

3) **curl -s https://deb.nodesource.com/setup_16.x | sudo bash**

sudo apt install nodejs –y

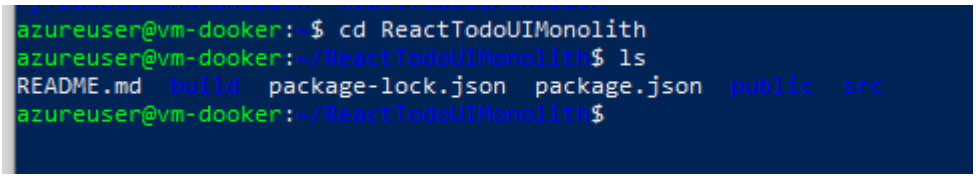
4) git clone https://github.com/devopsinsiders/ReactTodoUIMonolith.git

ls



cd ReactTodoUIMonolith

ls

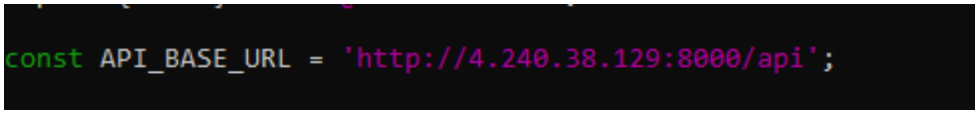


cd src

ls

nano TodoApp.js

Now in below field give the url of backend.



Ctrl+s

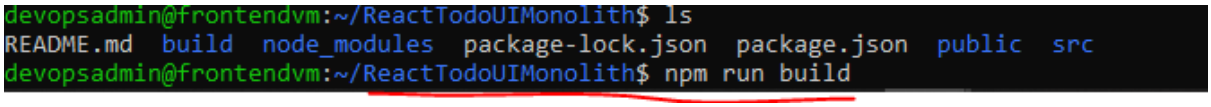
Ctrl+x

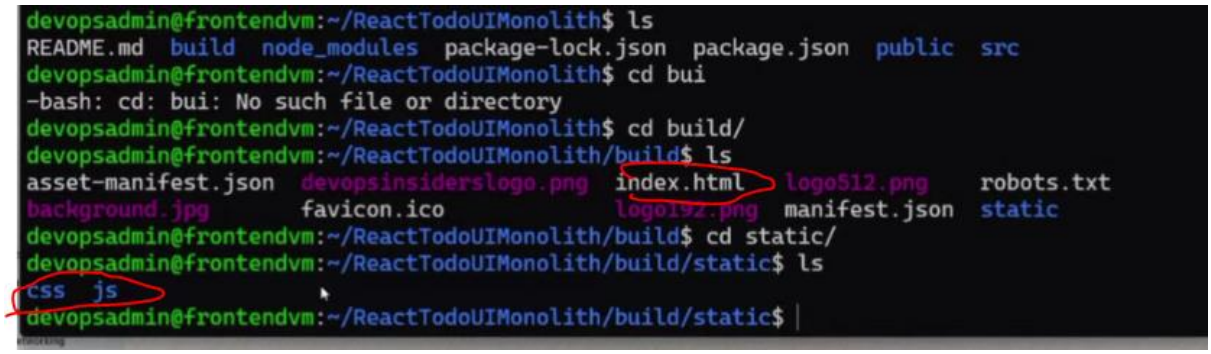
npm install – this command actually downloads dependencies from package.json on our vm or computer. After this node.modules folder comes in which dependencies are downloaded

ls

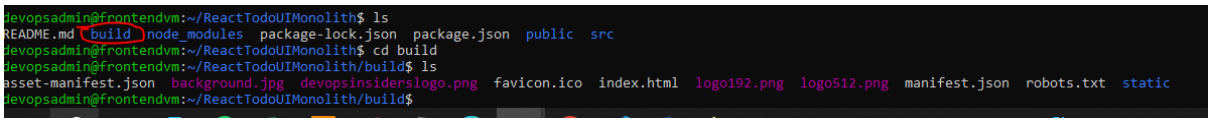
cd build

npm run build – By this our code will be converted into html, css, javascript code

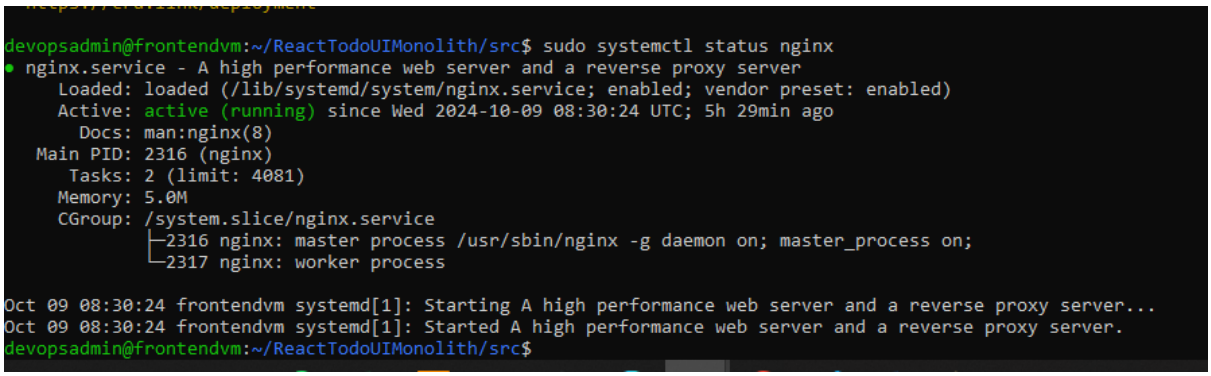




5) Now our artefacts are ready so now putting these on nginx webserver. So the code which is in build folder has to be put in nginx server



sudo systemctl status nginx

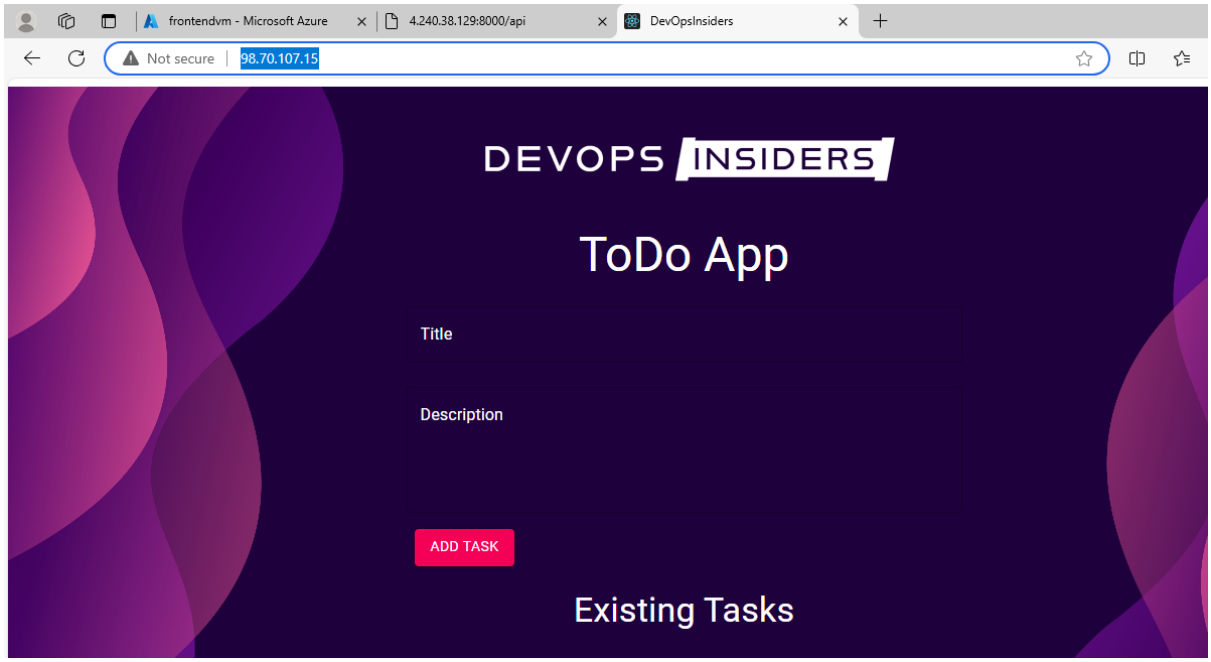


sudo cp -r * /var/www/html/- putting all files from build folder into nginx

sudo systemctl restart nginx

98.70.107.15:80

DevOpsInsiders


frontendvm - Microsoft Azure
4.240.38.129:8000/api
DevOpsInsiders
Not secure
98.70.107.15
DEVOPS INSIDERS
ToDo App
Title
Description
ADD TASK
Existing Tasks