Server Provision and management app

-Installation manual-

Prerequisites:

- A fresh Red Hat Entreprise Linux virtual machine, on cloud or on premises
- Sudo privileges
- A stable internet connection
- Open ports needed: 27017, 80, 3000

Installation steps:

1/ Install Docker:

- Remove old versions if any:

- Create a script docker.sh that contains these commands:

```
sudo yum install -y yum-utils
sudo yum-config-manager --add-repo <a href="https://download.docker.com/linux/rhel/docker-ce.repo">https://download.docker.com/linux/rhel/docker-ce.repo</a>
sudo yum install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
sudo systemctl start docker
sudo systemctl chmod 666 /var/run/docker.sock
```

- Add execute permissions for docker.sh:

sudo chmod +x docker.sh

- Run the script:

sudo ./docker.sh

2/ Install Git:

```
dnf install git
git –version
```

3/ Install node and npm:

```
curl -fsSL https://rpm.nodesource.com/setup_18.x | sudo bash - sudo yum install -y nodejs
```

4/ Install angular cli:

```
Npm install -g @angular/cli@17.0.7
```

If any problems faced in the installation of Angular cli, run these commands:

```
npm config get prefix OUTPUT: /home/mohamednajjar/.npm-global
echo 'export PATH=$PATH:/home/mohamednajjar/.npm-global/bin' >> ~/.bashrc
source ~/.bashrc
npm uninstall -g @angular/cli
npm install -g @angular/cli
ng version
```

5/ Install and enable Apache web server:

```
sudo dnf install httpd
sudo systemctl enable httpd
sudo systemctl start httpd
```

6/ Install Ansible:

```
sudo subscription-manager repos --enable ansible-2.9-for-rhel-8-x86_64-rpms sudo yum install ansible
```

7/ Clone the repository:

```
git clone https://github.com/Moh4medNajjar/Final_Server.git
```

8/ Modify Ansible playbook inventory host to localhost if the it is executed in the same machine.

9/ Execute Ansible playbook:

```
ansible-playbook -i inventory.ini ansible-playbook.yml --become --become-user=root --ask-become-pass
```

10/ Verify deployment: Application should now be available on port 80 on the host machine.

If any problems faced: execute these commands:

```
sudo chown -R apache:apache /opt/Final_Server/prov_app/dist/prov_app/browser
sudo chmod -R 755 /opt/Final_Server/prov_app/dist/prov_app/browser
sudo killall httpd
sudo systemctl restart httpd
```

11/ Create the first root admin (with SuperAdmin role) using this command (change it before executing..):

```
curl -X POST http://localhost:3000/api/auth/register \
-H "Content-Type: application/json" \
-d '{

"fullName": "Super Admin",

"email": "superadmin@gmail.com",

"password": "admin",

"position": "Manager",

"matricule": "000000",

"phoneNumber": "99560555",

"role": "SuperAdmin",

"Permissions": []
}'
```

Other troubleshooting commands:

- sudo killall httpd
- sudo systemctl restart httpd