FROM nginx:latest

```
# This script installs Docker and runs Nginx in a Docker container
# Update the package list and install dependencies
echo "Updating package list..."
sudo apt update -y
echo "Installing required packages..."
sudo apt install -y apt-transport-https ca-certificates curl software-properties-common
# Install Docker
echo "Installing Docker..."
curl -fsSL https://get.docker.com -o get-docker.sh
sudo sh get-docker.sh
# Add your user to the Docker group (optional, allows running docker commands without
sudo)
echo "Adding user to Docker group..."
sudo usermod -aG docker $USER
# Install Docker Compose (optional, useful for multi-container setups)
echo "Installing Docker Compose..."
sudo curl -L
"https://github.com/docker/compose/releases/download/1.29.2/docker-compose-$(uname
-s)-$(uname -m)" -o /usr/local/bin/docker-compose
sudo chmod +x /usr/local/bin/docker-compose
# Verify Docker and Docker Compose installation
echo "Verifying Docker installation..."
docker --version
docker-compose --version
# Create a directory for your Nginx project
echo "Setting up project directory..."
mkdir -p ~/docker/nginx
cd ~/docker/nginx
# Create a simple HTML file to be served by Nginx
echo "Creating a simple index.html..."
echo "<html><body><h1>Welcome to Docker Nginx Server!</h1></body></html>" >
index.html
# Create a Dockerfile for Nginx
echo "Creating Dockerfile..."
cat <<EOL > Dockerfile
```

COPY index.html /usr/share/nginx/html/index.html EXPOSE 80 EOL

Build the Docker image for Nginx echo "Building the Docker image..." docker build -t my-nginx .

Run the Nginx container echo "Running the Nginx container..." docker run -d -p 8080:80 --name nginx-server my-nginx

Provide the status of the Nginx container echo "Nginx server is running on port 8080" echo "Access it by visiting http://<your-vm-ip>:8080"

Optional: Restart Docker service (in case it's needed)
sudo systemctl restart docker