# Install Docker on Ubuntu WSL Without Docker Desktop

1	<b>Enable WSI</b>	and Virtual	Machino	Diatform	Foatures
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Open PowerShell as Administrator and run:

dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart

#### Restart your system

Restart the machine to apply changes.

## 2. Install WSL 2 Update

Download and install the WSL 2 kernel update:

https://wslstorestorage.blob.core.windows.net/wslblob/wsl\_update\_x64.msi

### 3. Set WSL Default Version to 2

wsl --set-default-version 2

#### 4. Install Ubuntu via WSL

wsl --install -d Ubuntu

## 5. Inside Ubuntu: Update and Install Dependencies

sudo apt update

sudo apt-get -y install apt-transport-https ca-certificates curl gnupg lsb-release
6. Install Docker
sudo apt install docker.io -y
7. Configure Docker Daemon
sudo mkdir -p /etc/docker
sudo nano /etc/docker/daemon.json
Paste the following into the file:
{
"hosts": ["tcp://0.0.0.0:2375", "unix:///var/run/docker.sock"]
}
8. Expose Docker to Windows
Open PowerShell as Administrator and run:
[Environment]::SetEnvironmentVariable("DOCKER_HOST", "tcp://localhost:2375", "User")
9. Start Docker Daemon Manually

In Ubuntu:

sudo dockerd

Or in background: nohup sudo dockerd & Optional Troubleshooting: Ensure iptables is installed sudo apt-get install iptables **Optional Troubleshooting: Switch iptables to Legacy** sudo update-alternatives --config iptables If nf\_tables is selected: sudo update-alternatives --set iptables /usr/sbin/iptables-legacy sudo update-alternatives --set ip6tables /usr/sbin/ip6tables-legacy **Run SQL Server Docker Container** docker run --restart=always --name MxASQLServer \ -e 'ACCEPT\_EULA=Y' \ -e 'SA\_PASSWORD=HAL@VSCPassword123' \ -e 'MSSQL\_PID=Express' \

- -p 1433:1433 \
- -d mcr.microsoft.com/mssql/server:2017-latest-ubuntu

**Optional: Dapr CLI Installation** 

Set-ExecutionPolicy RemoteSigned -Scope CurrentUser

powershell -Command "iwr -useb https://raw.githubusercontent.com/dapr/cli/master/install/install.ps1
iex"