

• LIVE

จัดอบรมออนไลน์

WORKSHOP WEB API

.NET 8.0

ร่วมกับ
ทำงานบน

NEXT.js 14



docker



สอนสดผ่าน Zoom
รับจำนวนจำกัด



มีวิดีโอบันทึกการอบรม
ย้อนหลังให้ทุกวัน

การเตรียมเครื่องมือ



อาจารย์สามิตร
สถาบันไอทีจีเนียส

การเตรียมเครื่องมือ



โปรแกรม (Tool and Editor) ที่ใช้อบรม

1. .NET 8 SDK
2. Visual Studio Code
3. Node.JS 18.x
4. PostgreSQL 15.x
5. Docker
6. Git



<< TL;DR ถ้าคิดว่ามันยาวไปไม่อยากอ่าน ! จบที่หน้านี้เลย >>

คำสั่งทดสอบ

ตัวอย่างที่ได้ (เครื่องผู้สอน)



ใช้ .NET 8 ขึ้นไปเท่านั้น
(เครื่องผู้สอนใช้ V.8.0.10)

```
dotnet --version
```

```
8.0.100
```



ใช้ NodeJS 18.17 ขึ้นไป
(เครื่องผู้สอนใช้ V.20.1.0)

```
node -v
```

```
20.1.0
```



ใช้ PostgreSQL 15 ขึ้นไป

```
psql --version
```

```
psql (PostgreSQL) 15.4
```



ใช้ Docker Desktop ล่าสุด

```
docker --version
```

```
Docker version 24.0.6
```



ใช้ Git ล่าสุดได้เลย

```
git version
```

```
git version 2.33.1
```



ใช้ VS Code ในการเขียนทั้งหมด ดาวน์โหลดได้จาก code.visualstudio.com

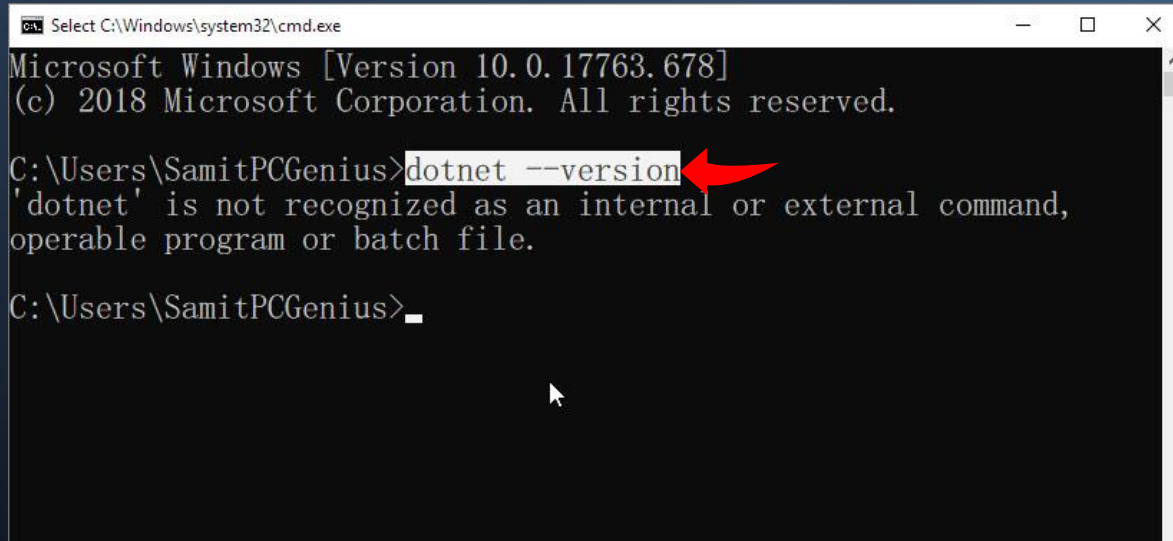


ติดตั้ง .NET 8 SDK



ตรวจสอบเช็คว่ามีการติดตั้ง .NET SDK ไว้หรือยัง

ยังไม่ได้ติดตั้ง .net sdk

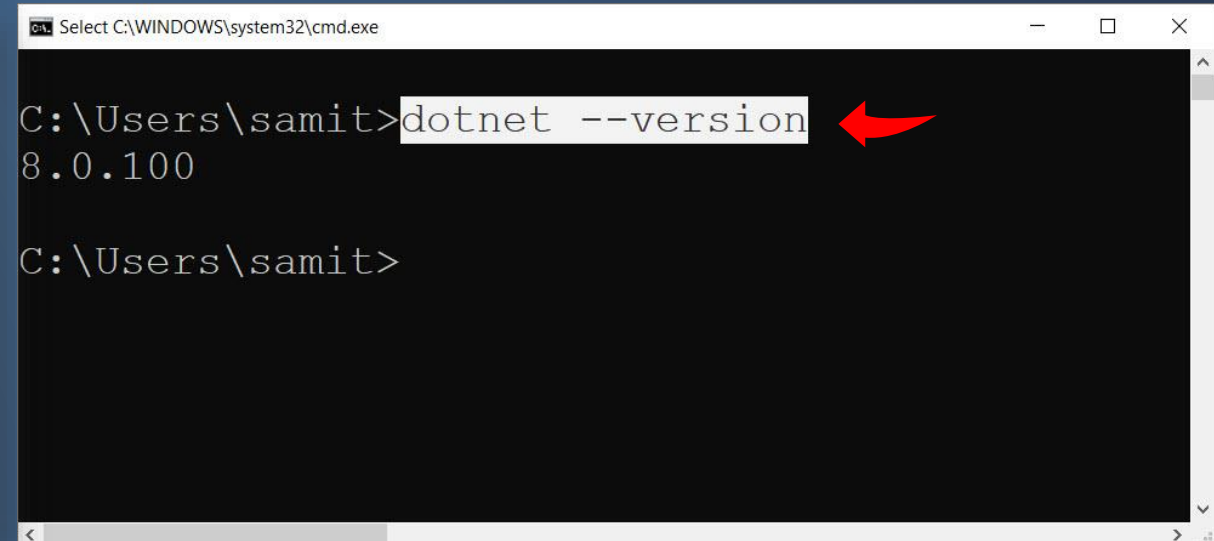


```
Microsoft Windows [Version 10.0.17763.678]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\SamitPCGenius>dotnet --version
'dotnet' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\SamitPCGenius>
```

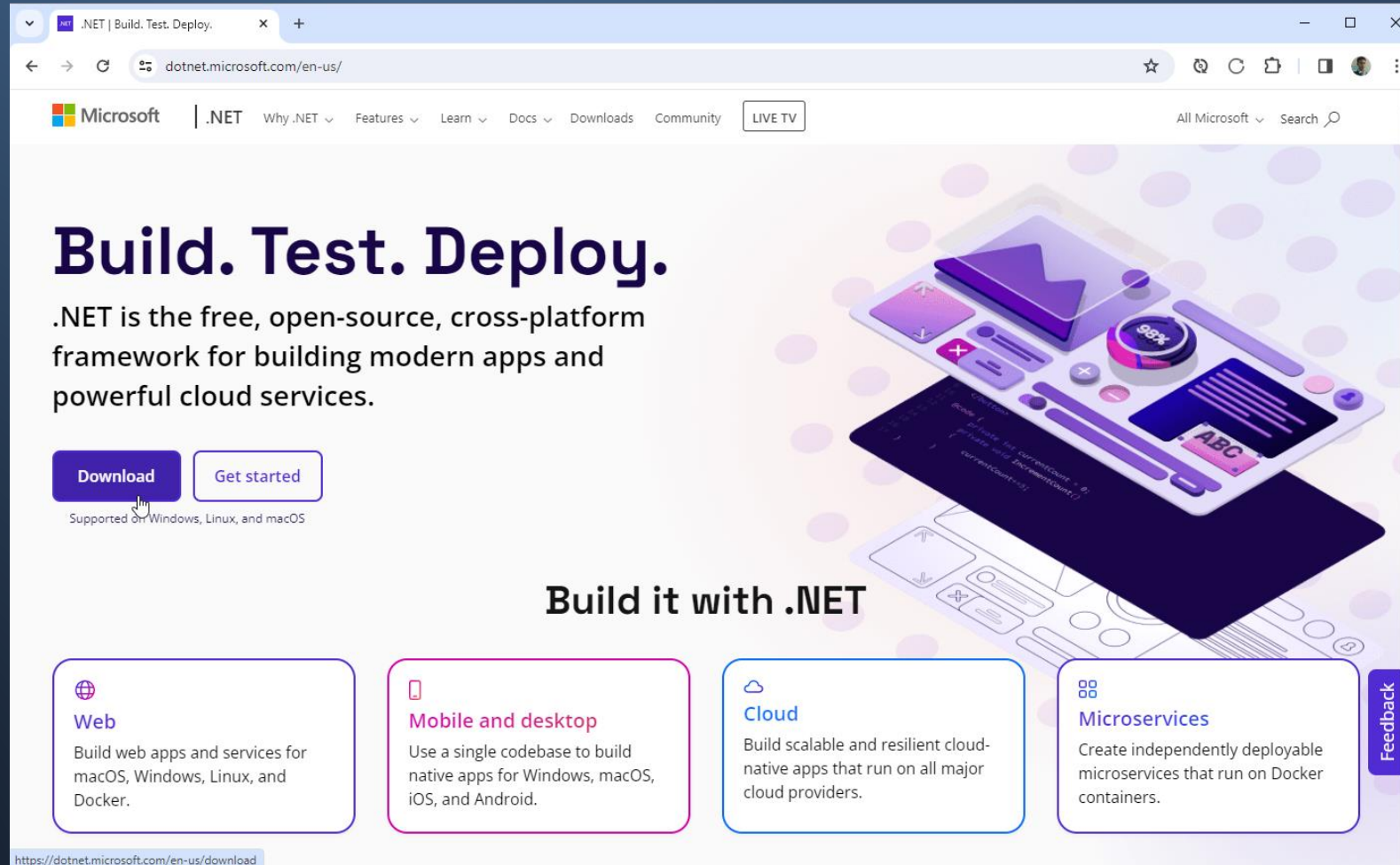
ติดตั้ง .net sdk แล้ว



```
C:\Users\samit>dotnet --version
8.0.100

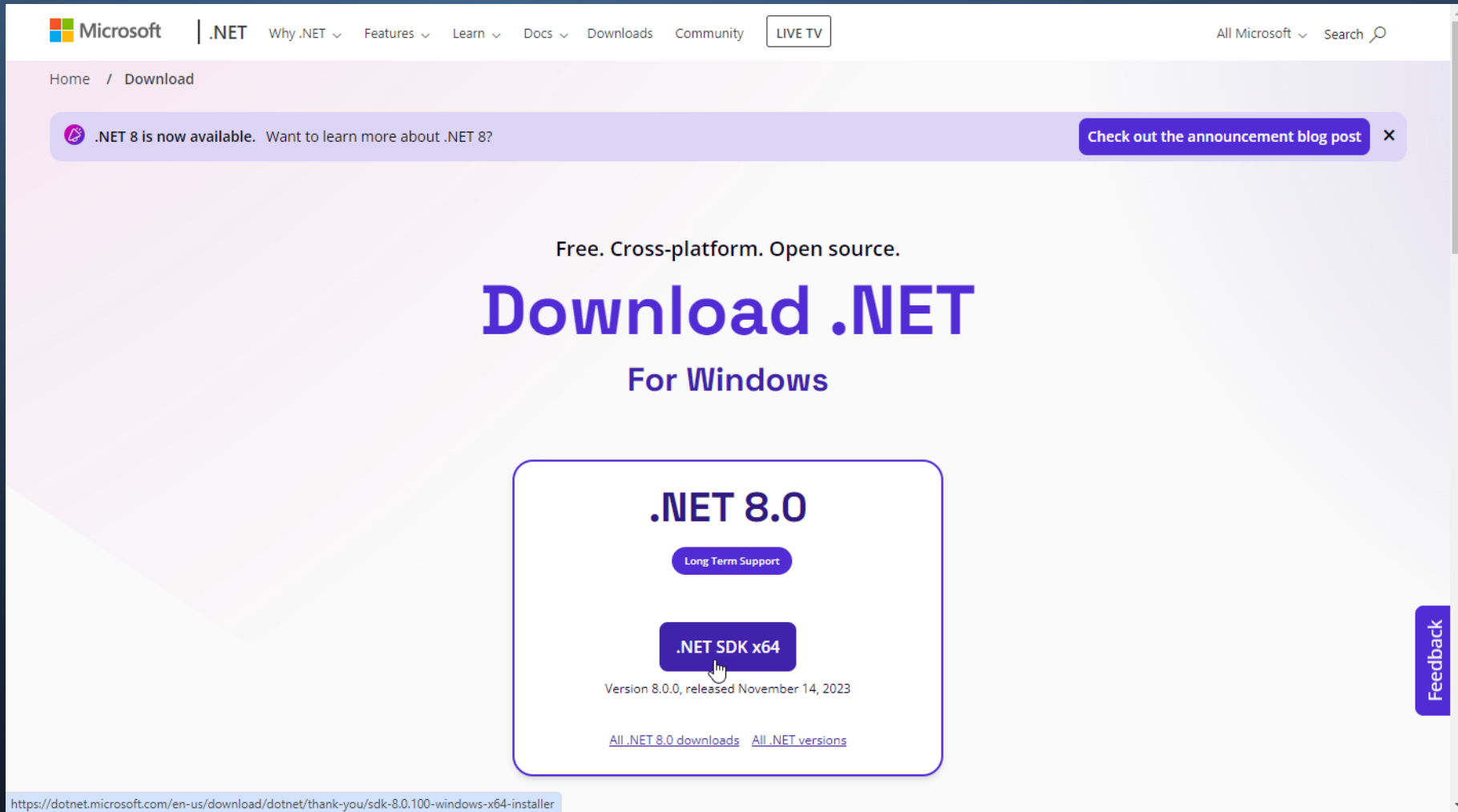
C:\Users\samit>
```

สำรวจเว็บไซต์สำหรับดาวน์โหลด .NET Framework



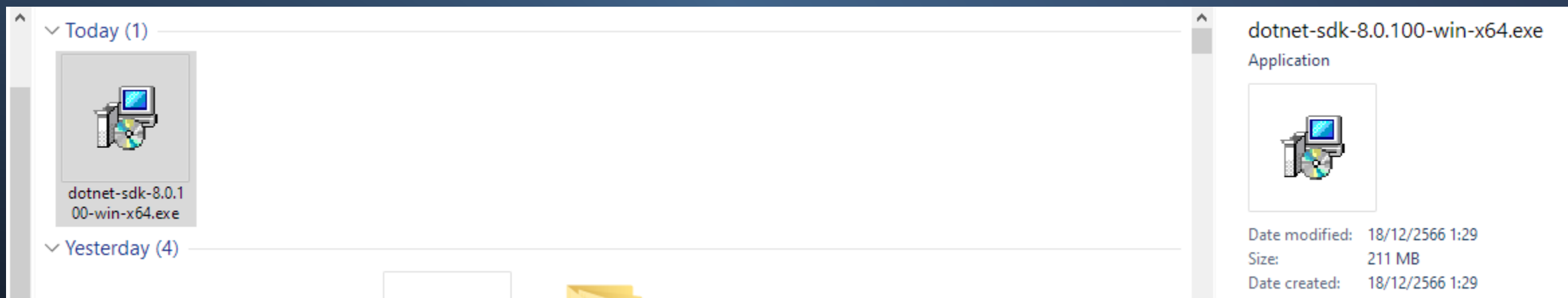
<https://dotnet.microsoft.com>

สำรวจเว็บไซต์สำหรับดาวน์โหลด .NET Framework

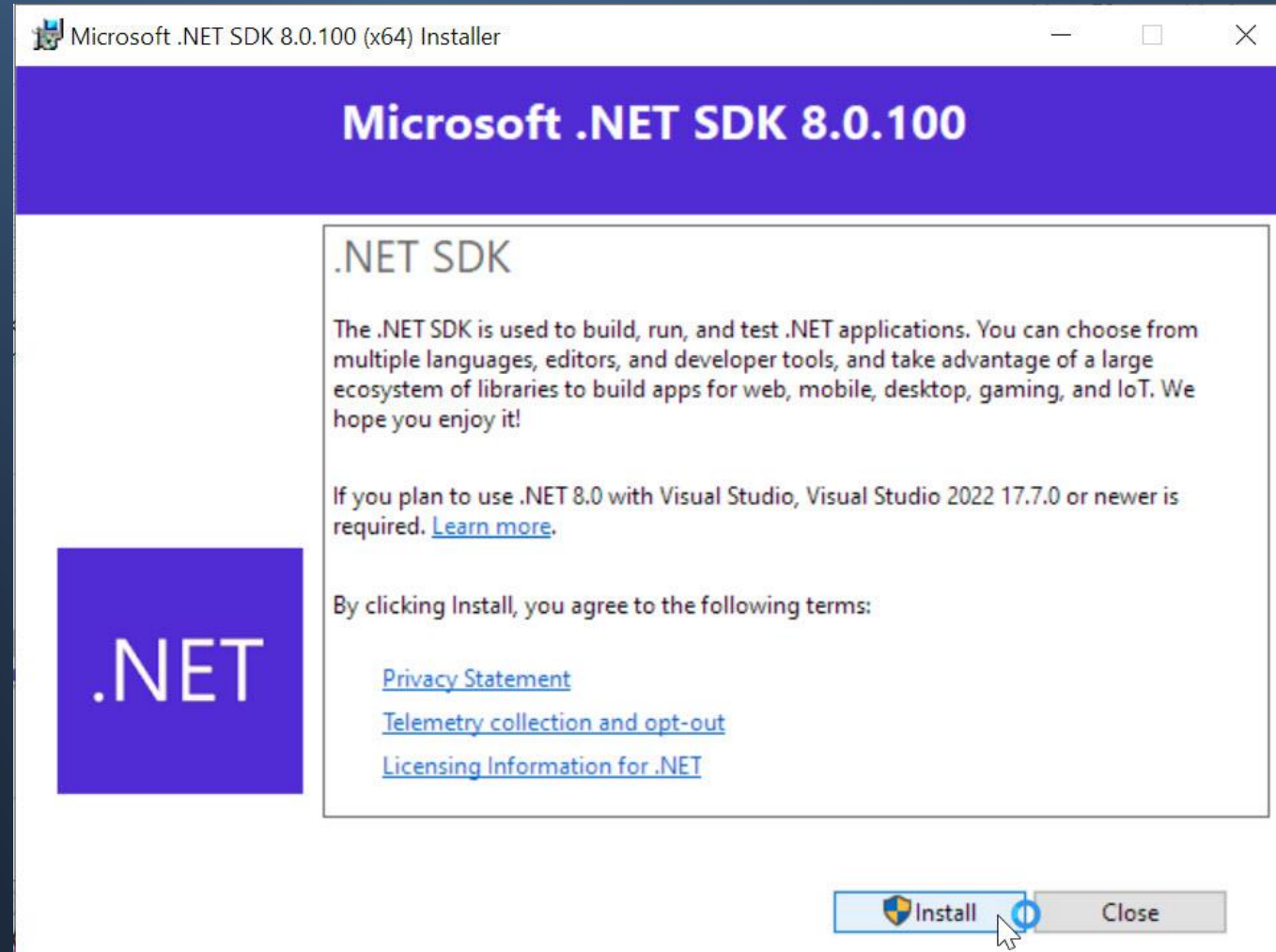


<https://dotnet.microsoft.com/download>

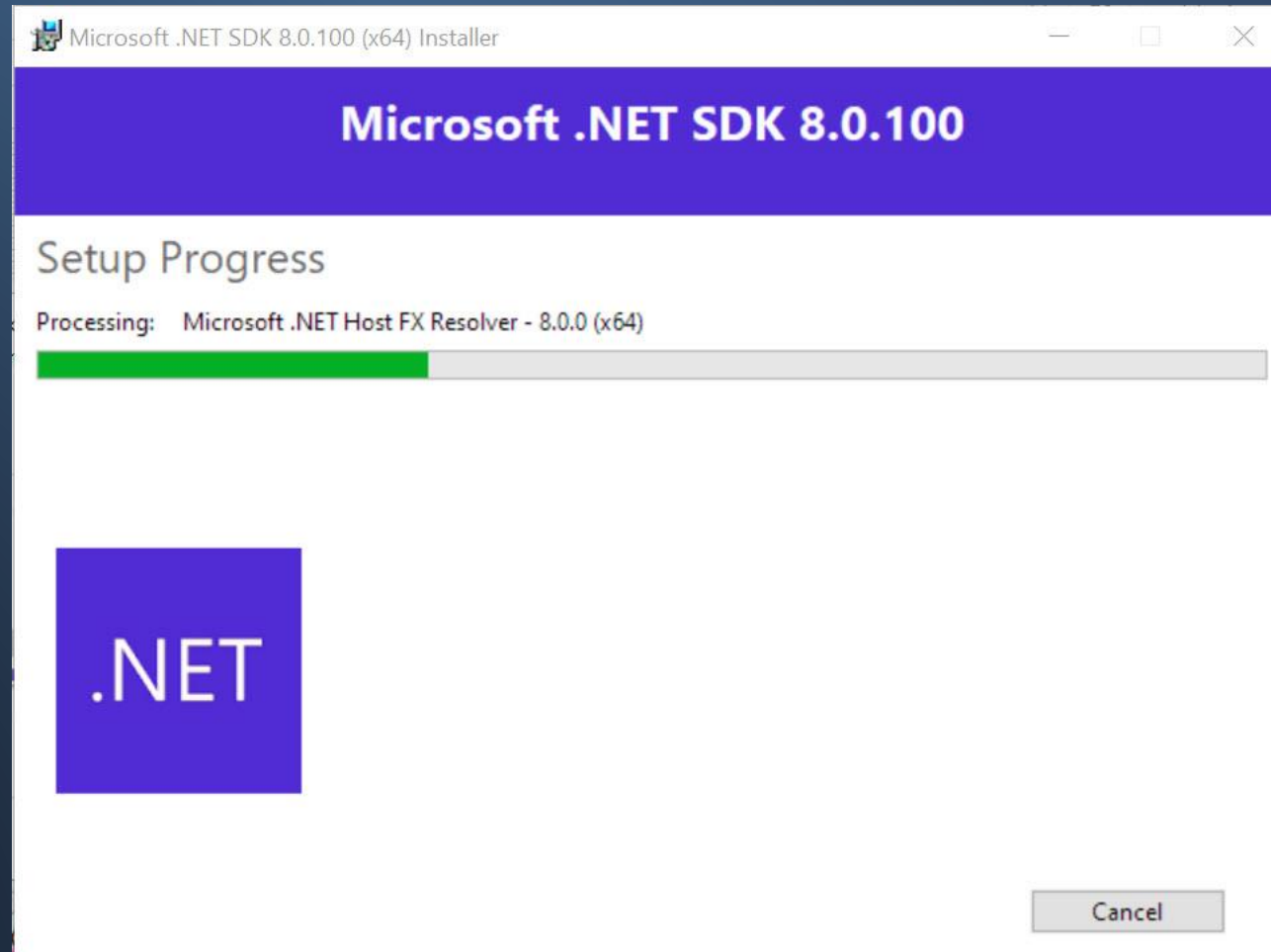
Download .NET 8 SDK



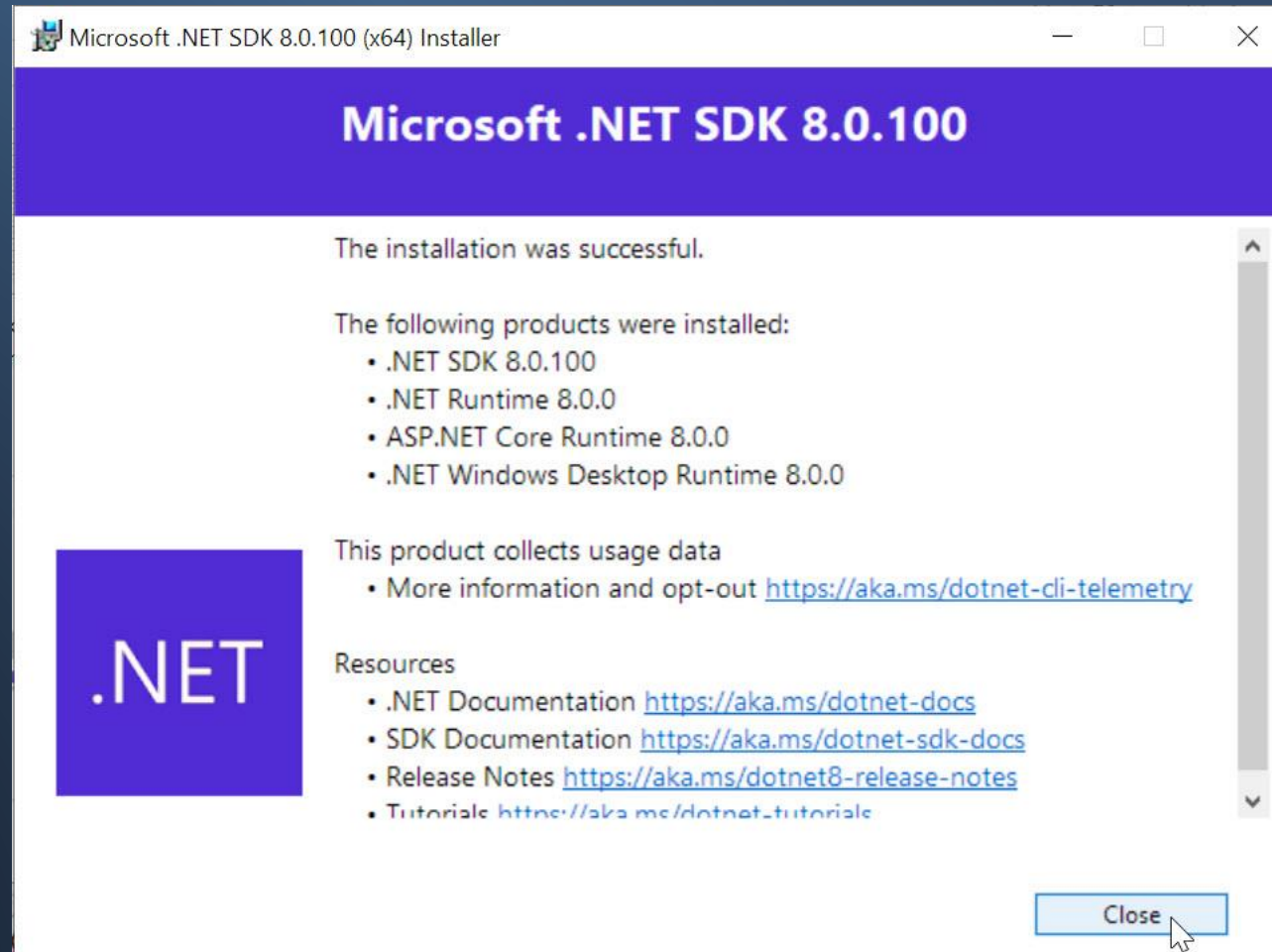
Install .NET SDK on Windows



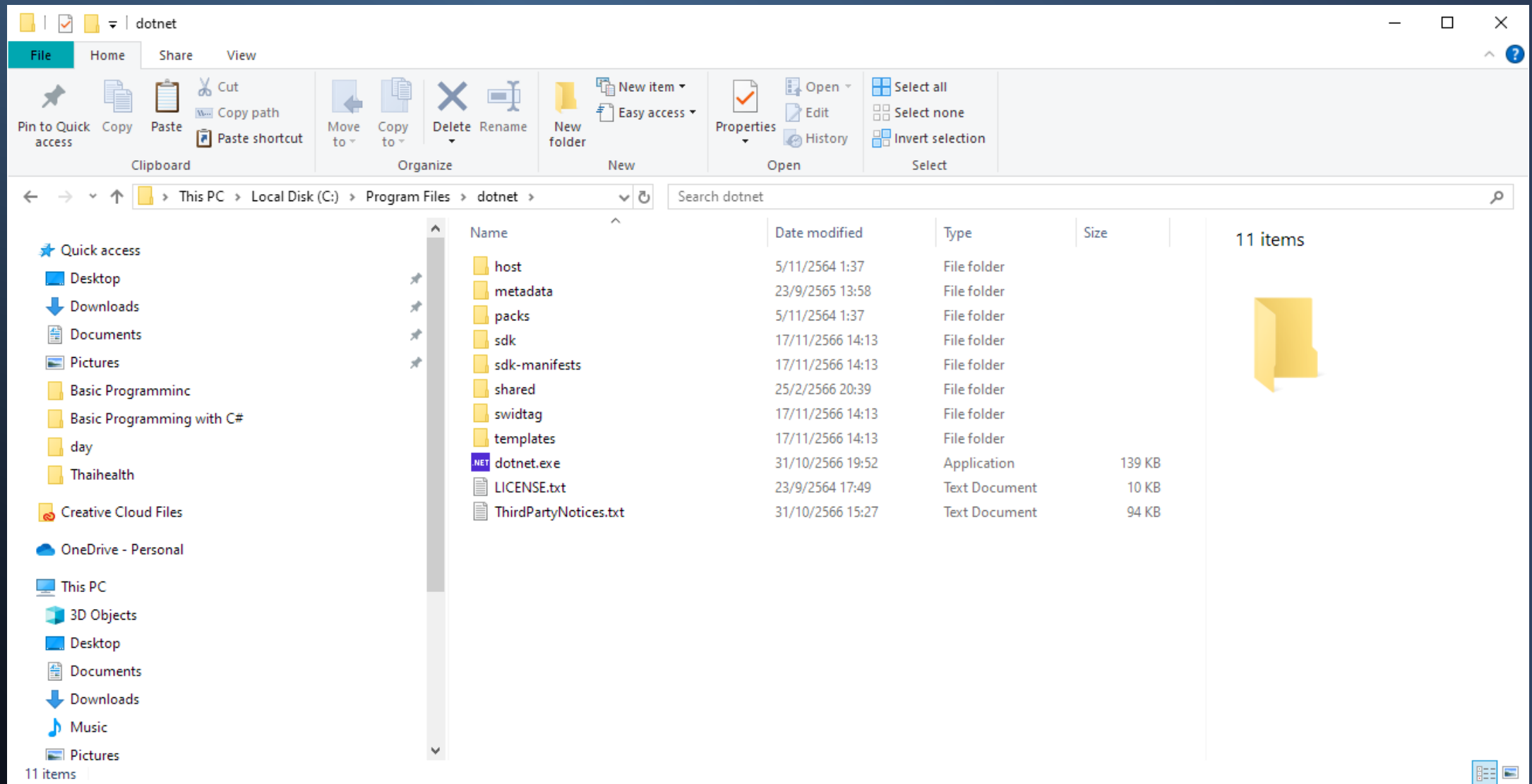
Install .NET SDK on Windows



Install .NET SDK on Windows



Install .NET SDK on Windows



Install .NET SDK on Windows

```
pwsh in samit
samit dotnet --info
.NET SDK:
Version:      8.0.100
Commit:       57efcf1350
Workload version: 8.0.100-manifests.6c33ef20

Runtime Environment:
OS Name:      Windows
OS Version:   10.0.19045
OS Platform:  Windows
RID:          win-x64
Base Path:    C:\Program Files\dotnet\sdk\8.0.100\

.NET workloads installed:
Workload version: 8.0.100-manifests.6c33ef20
There are no installed workloads to display.

Host:
Version:      8.0.0
Architecture: x64
Commit:       5535e31a71

.NET SDKs installed:
5.0.402 [C:\Program Files\dotnet\sdk]
6.0.401 [C:\Program Files\dotnet\sdk]
7.0.200 [C:\Program Files\dotnet\sdk]
8.0.100 [C:\Program Files\dotnet\sdk]

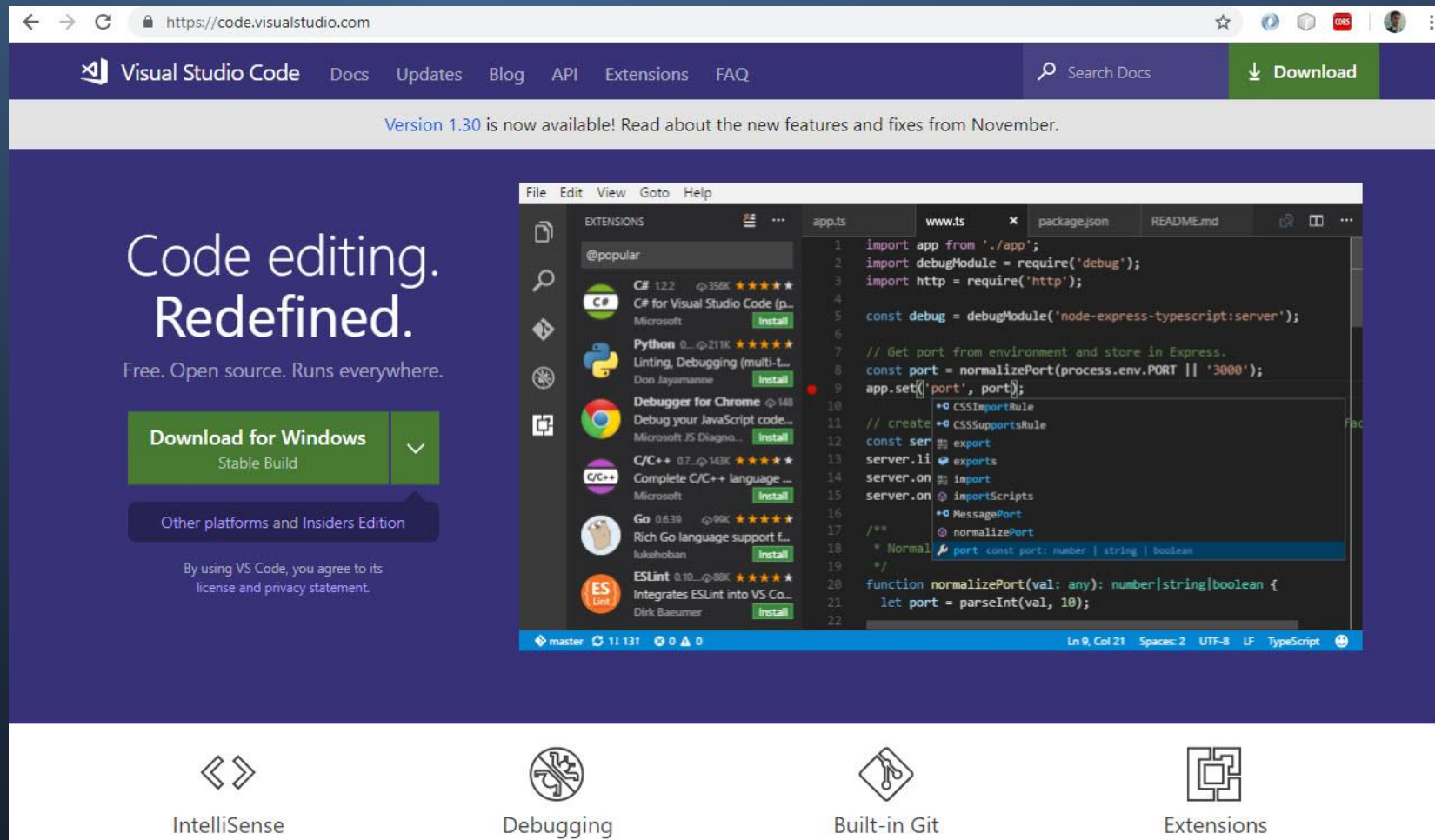
.NET runtimes installed:
Microsoft.AspNetCore.App 3.1.32 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 5.0.11 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 5.0.17 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 6.0.9 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 6.0.14 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 7.0.3 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
Microsoft.AspNetCore.App 8.0.0 [C:\Program Files\dotnet\shared\Microsoft.AspNetCore.App]
```



ติดตั้ง Visual Studio Code

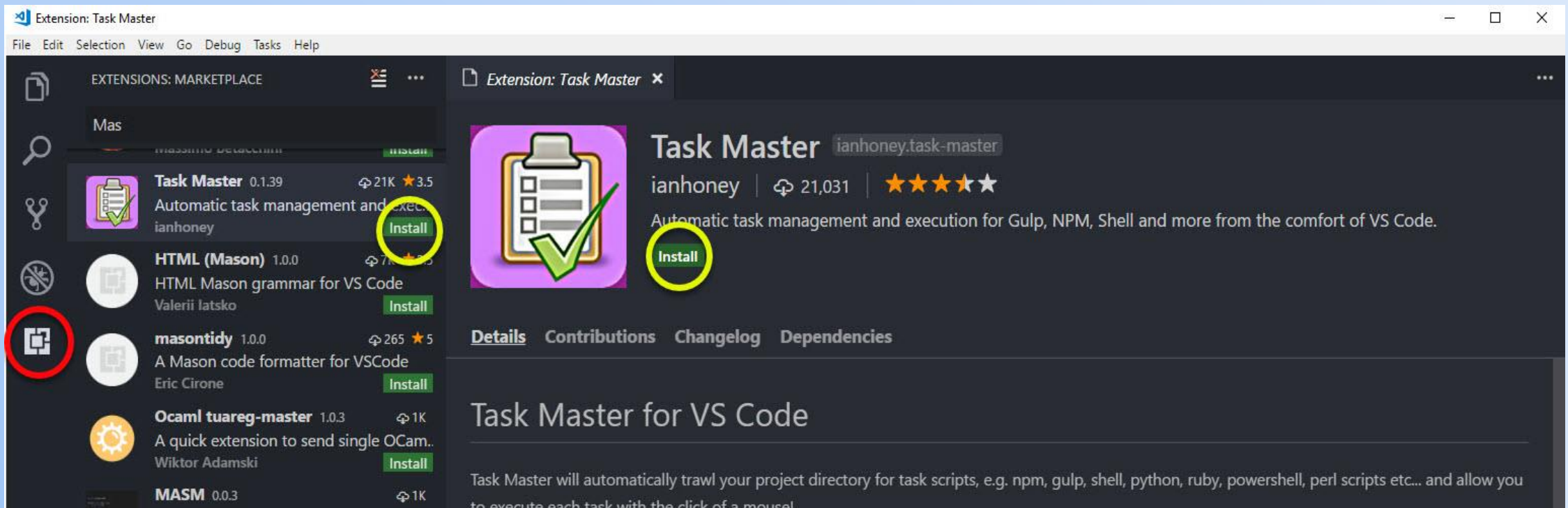


ติดตั้ง Visual Studio Code พร้อมส่วนเสริมที่จำเป็น



เข้าไปดาวน์โหลด Visual Studio Code ได้ที่ <https://code.visualstudio.com>

การติดตั้งส่วนเสริม (Extension) ของ Visual Studio Code



รายชื่อ Extensions ที่แนะนำสำหรับ VS Code

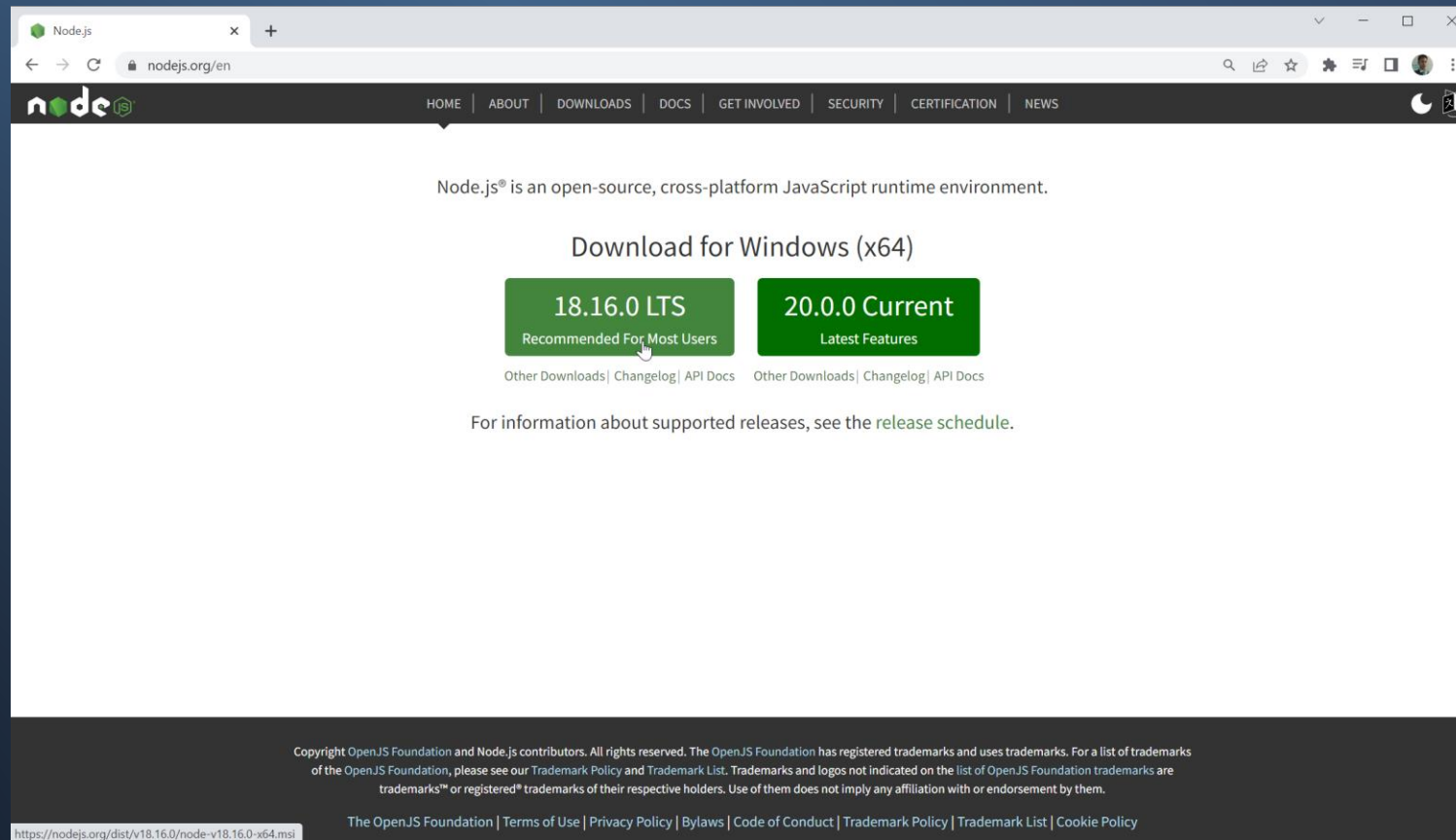
1. **Color Picker** by anseki
2. **Material Icon Theme** by pkief.com
3. **AutoFileName** by JerryHong
4. **Auto Import** by steoates
5. **Auto Import - ES6, TS, JSX, TSX** by Sergey Korenuk
6. **JavaScript and TypeScript Nightly** by Microsoft
7. **C#** by Microsoft
8. **C# Dev Kit** by Microsoft
9. **ES7+ React/Redux/React-Native snippets** by dsznajder
10. **Tailwind CSS IntelliSense** by Tailwind Labs
11. **MySQL** by Weijen Chen
12. **REST Client** by Huachao Mao
13. **Docker** by Microsoft
14. **One Dark Pro** by binaryify



ติดตั้ง Node JS

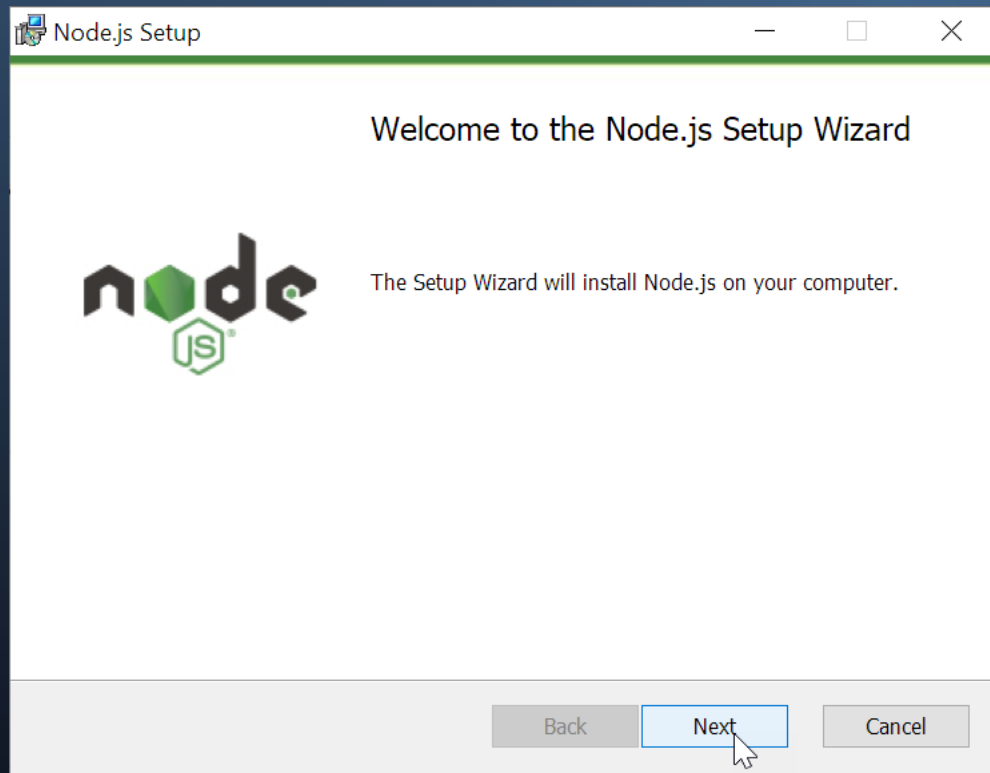


Download Node.JS V.18.x <https://nodejs.org/en/>

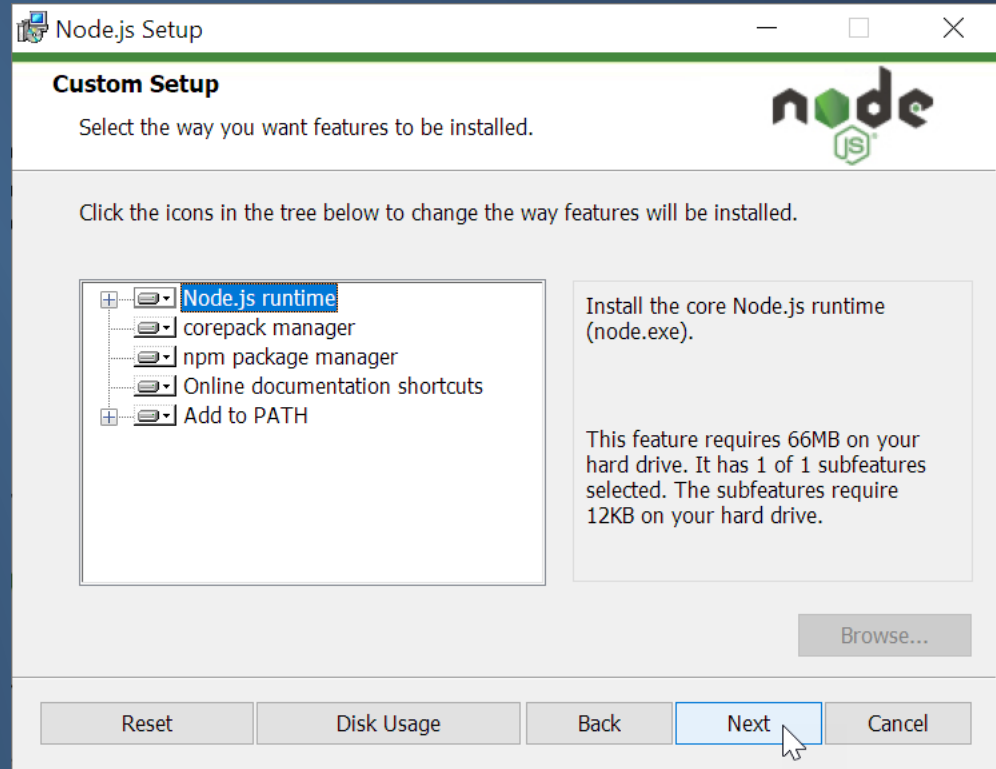
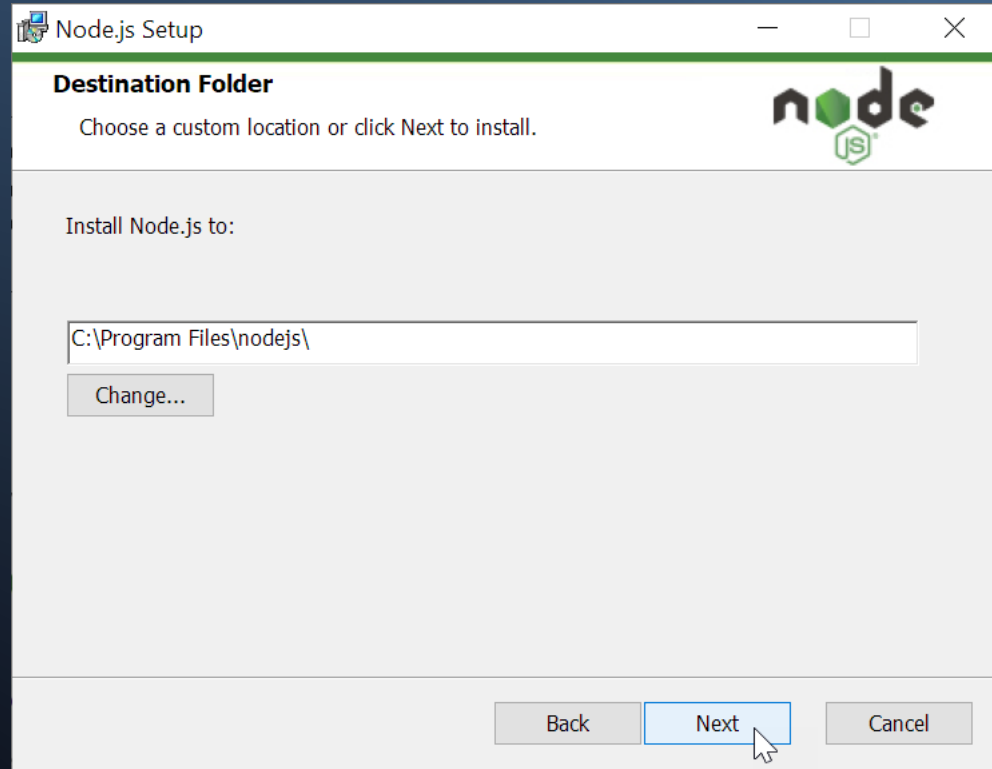


หมายเหตุ การอบรมรองรับตั้งแต่ Node.JS 18 ขึ้นไป สามารถใช้ Node.JS 20 หรือ 21 ก็ได้

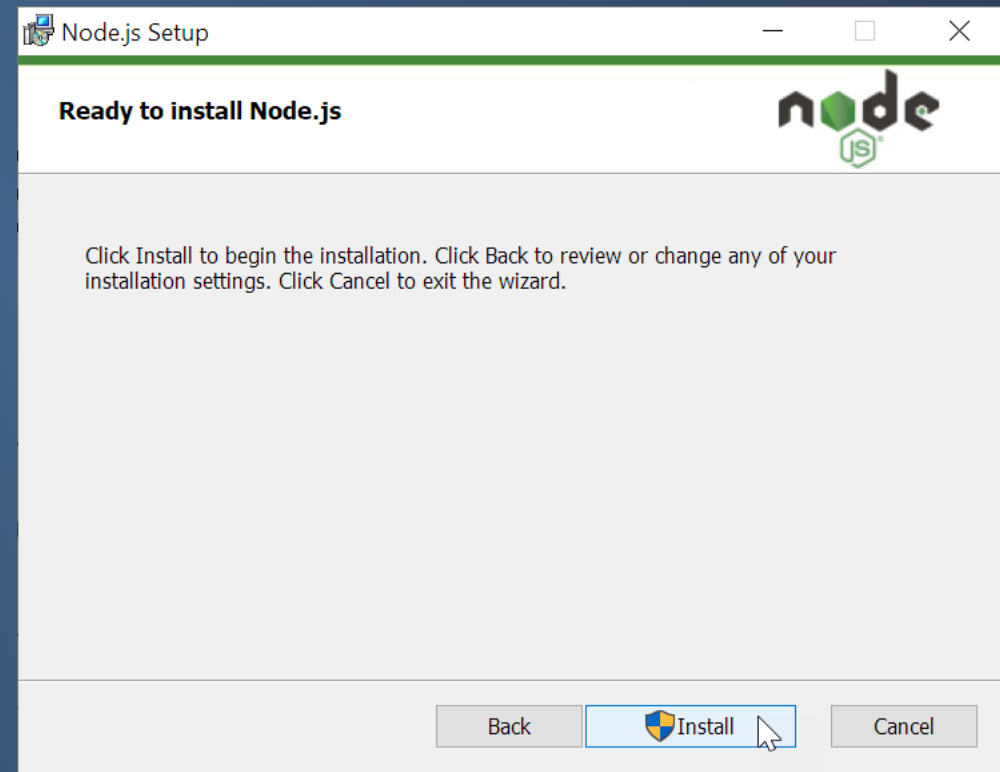
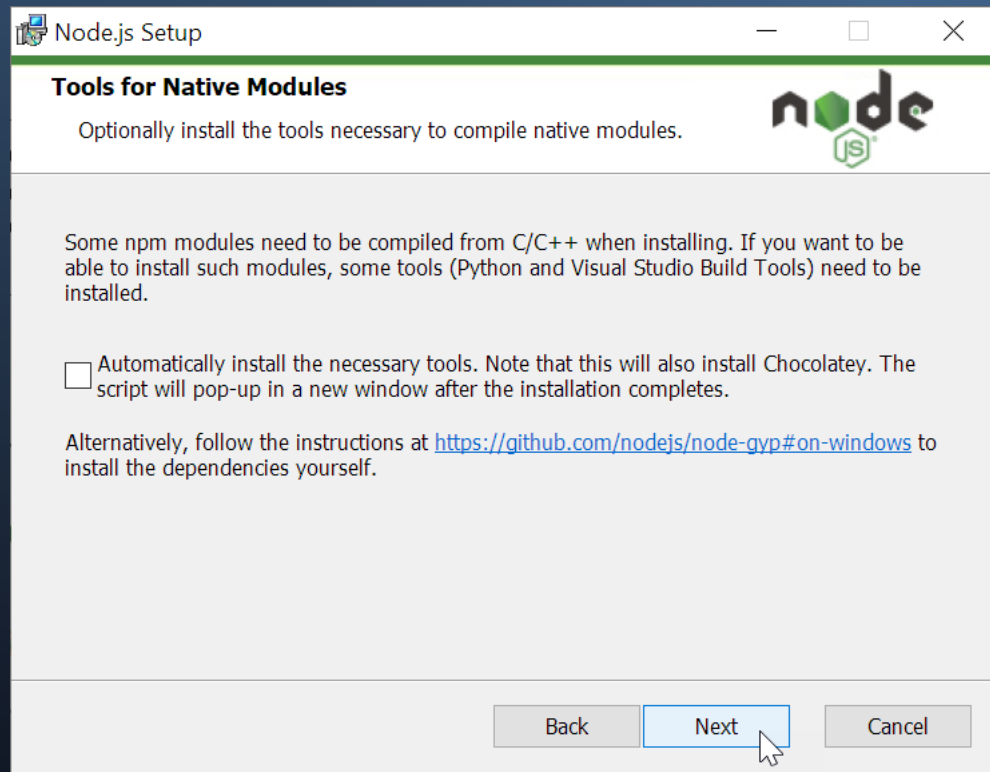
ติดตั้ง Node.JS V.18.x



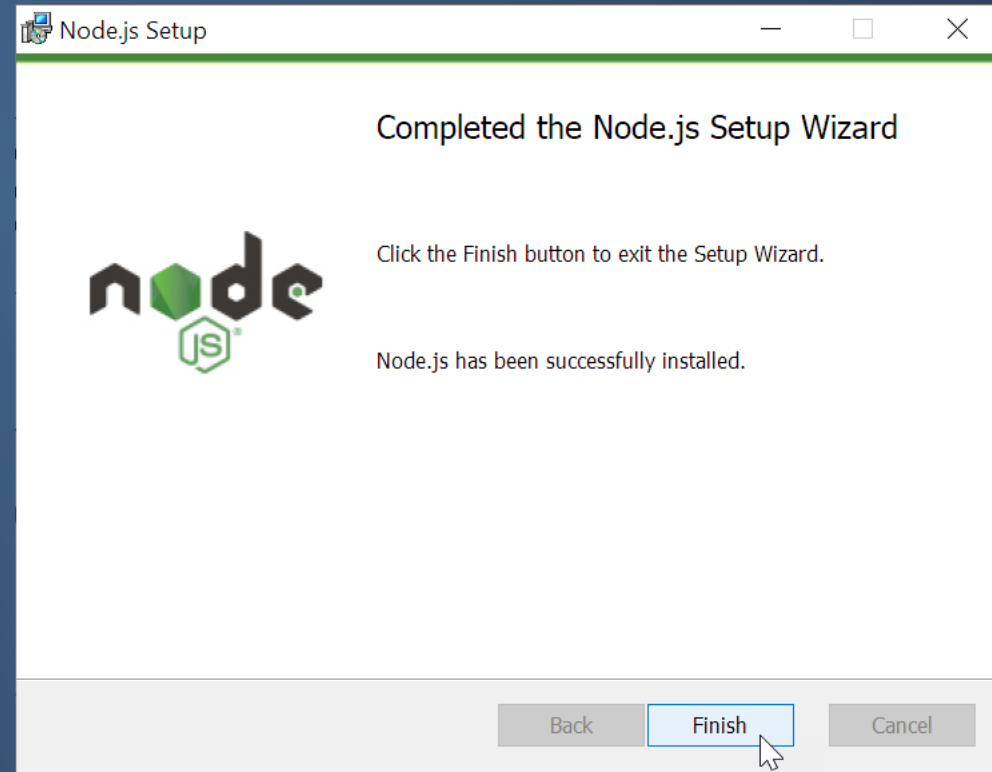
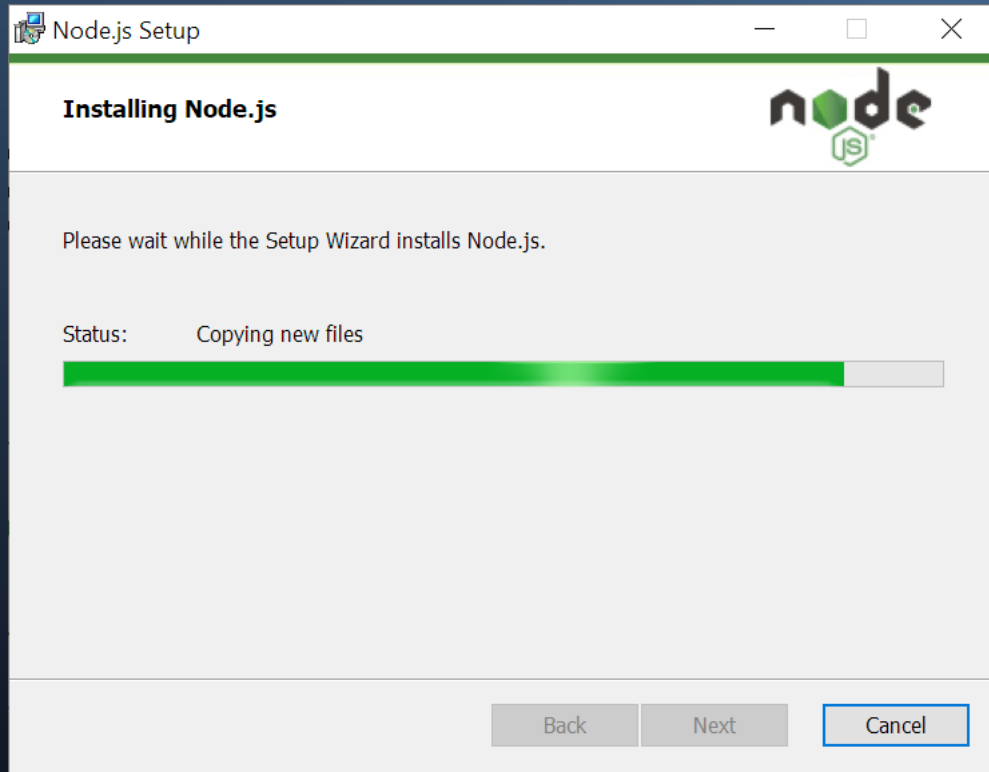
ติดตั้ง Node.JS V.18.x



ติดตั้ง Node.JS V.18.x



ติดตั้ง Node.JS V.18.x



ทดสอบหลังติดตั้งเสร็จ

node -v

```
C:\Users\samit>node -v  
v18.16.0  
  
C:\Users\samit>|
```

npm -v

```
C:\Users\samit>npm -v  
9.5.1  
  
C:\Users\samit>|
```

npx -v

```
C:\Users\samit>node -v  
v18.16.0  
  
C:\Users\samit>npm -v  
9.5.1  
  
C:\Users\samit>npx -v  
9.5.1  
  
C:\Users\samit>|
```



ติดตั้ง PostgreSQL



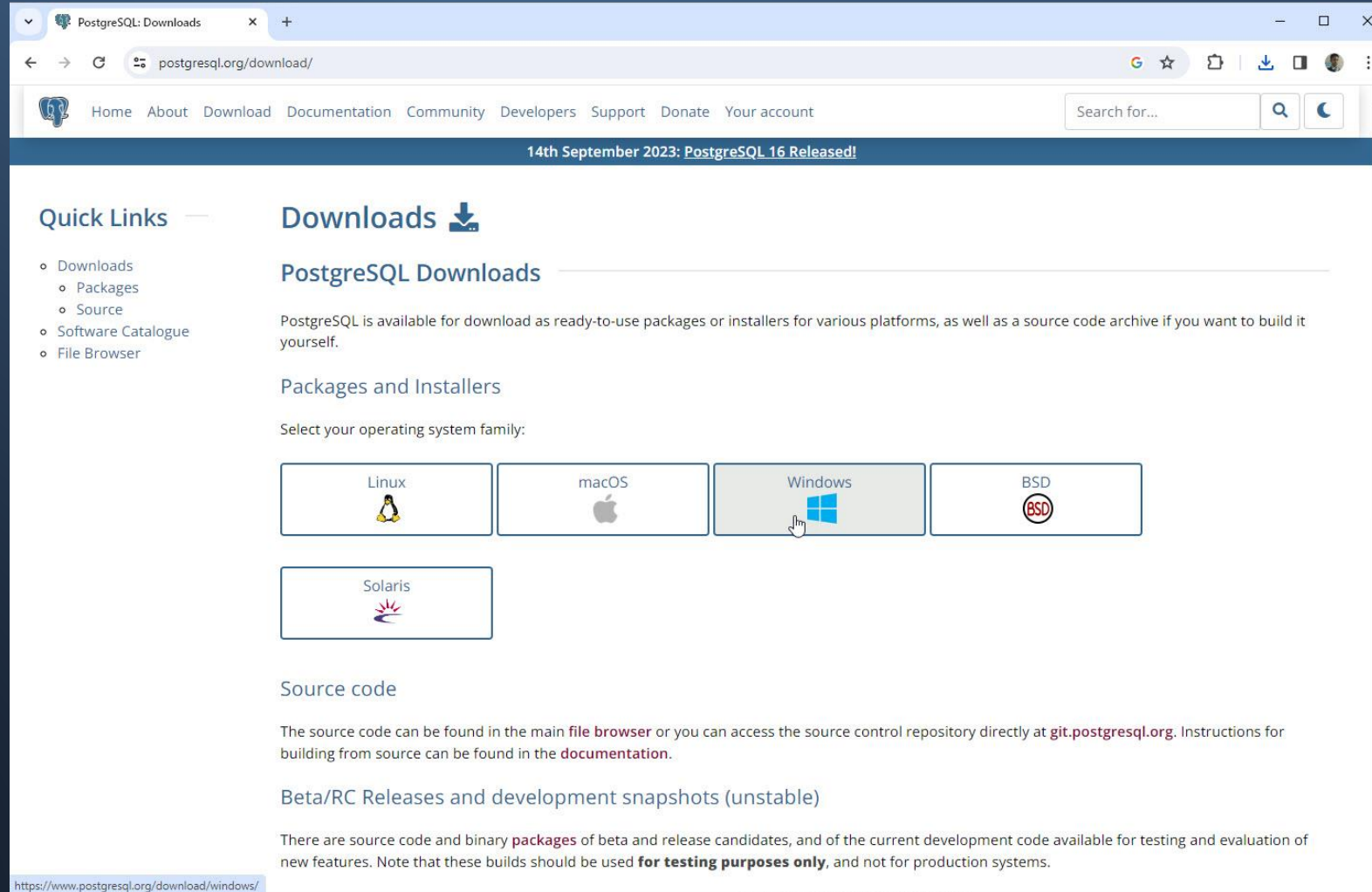
ติดตั้ง PostgreSQL 15.x บน Windows

- Download PostgreSQL 15.x installer for Windows
- Install PostgreSQL
- Verify the installation

Download PostgreSQL for Windows

Windows installers

<https://www.postgresql.org/download/windows/>



Windows installers

<https://www.postgresql.org/download/windows/>

14th September 2023: PostgreSQL 16 Released!

Windows installers

Interactive installer by EDB

Download the installer certified by EDB for all supported PostgreSQL versions.

Note: This installer is hosted by EDB and not on the PostgreSQL community servers. If you have issues with the website it's hosted on, please contact webmaster@enterprisedb.com.

This installer includes the PostgreSQL server, pgAdmin; a graphical tool for managing and developing your databases, and StackBuilder; a package manager that can be used to download and install additional PostgreSQL tools and drivers. Stackbuilder includes management, integration, migration, replication, geospatial, connectors and other tools.

This installer can run in graphical or silent install modes.

The installer is designed to be a straightforward, fast way to get up and running with PostgreSQL on Windows.

Advanced users can also download a **zip archive** of the binaries, without the installer. This download is intended for users who wish to include PostgreSQL as part of another application installer.

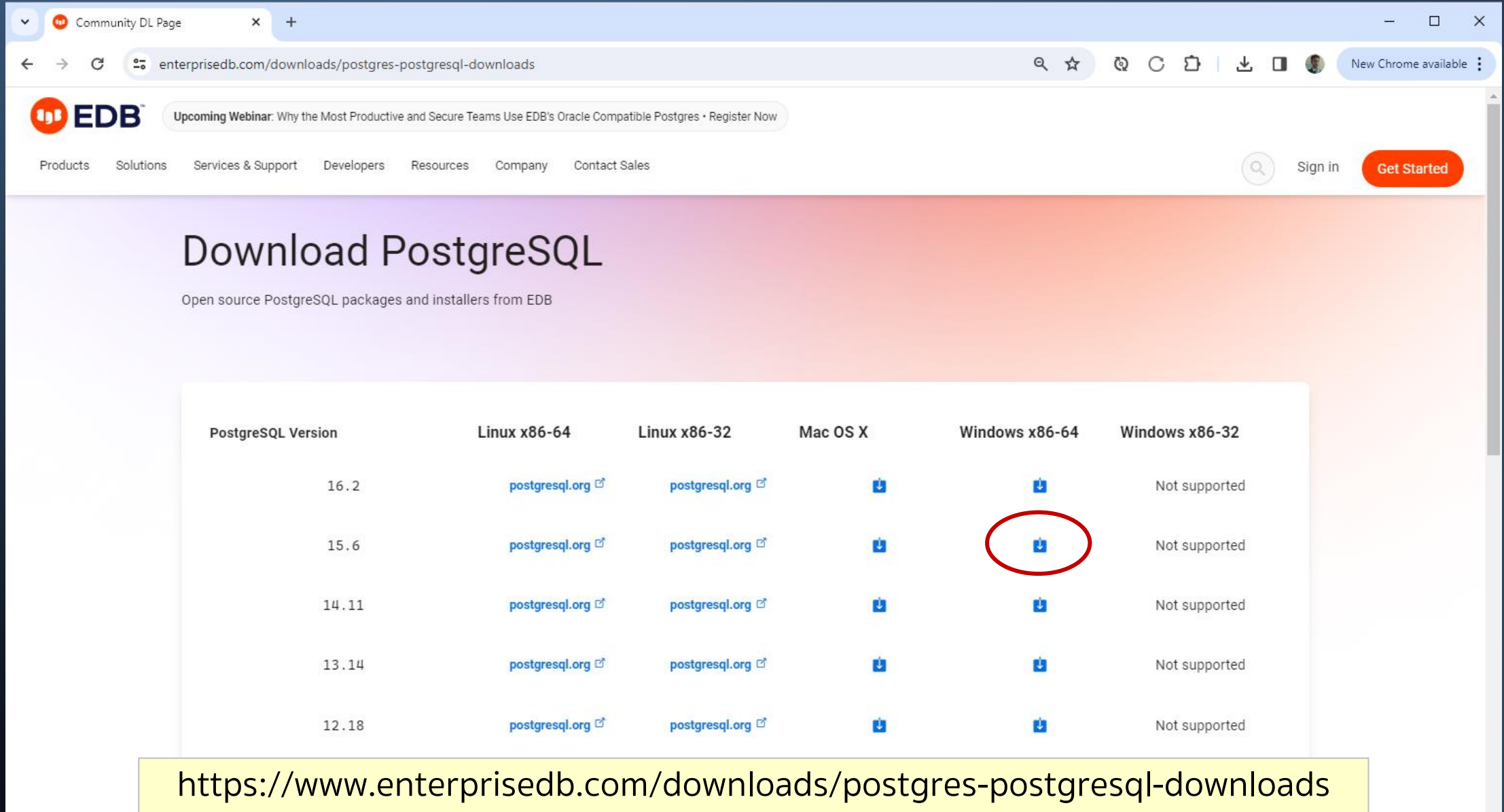
Platform support

The installers are tested by EDB on the following platforms. They can generally be expected to run on other comparable versions, for example, desktop releases of Windows:

PostgreSQL Version	64 Bit Windows Platforms	32 Bit Windows Platforms
16	2022, 2019	
15	2019, 2016	
14	2019, 2016	
13	2019, 2016	

<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>

ดาวน์โหลดชุดติดตั้ง PostgreSQL 15.x สำหรับ Windows



Community DL Page

enterprisedb.com/downloads/postgres-postgresql-downloads


EDB™ Upcoming Webinar: Why the Most Productive and Secure Teams Use EDB's Oracle Compatible Postgres • Register Now

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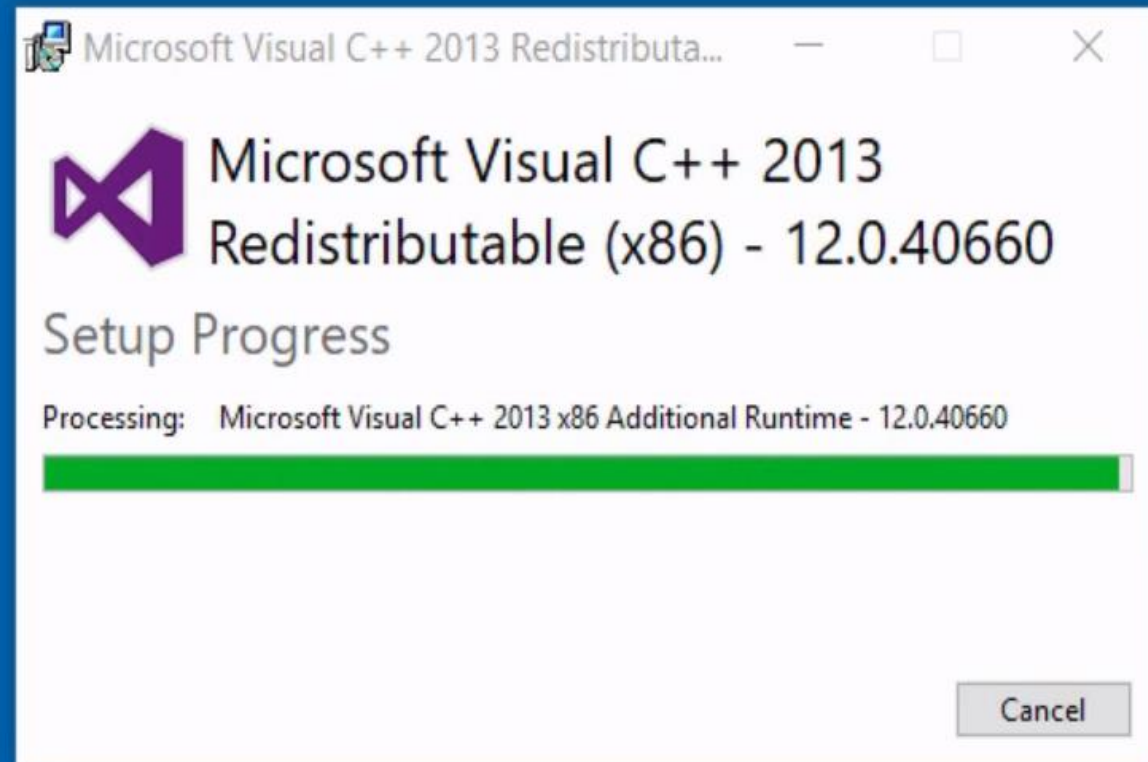
Download PostgreSQL

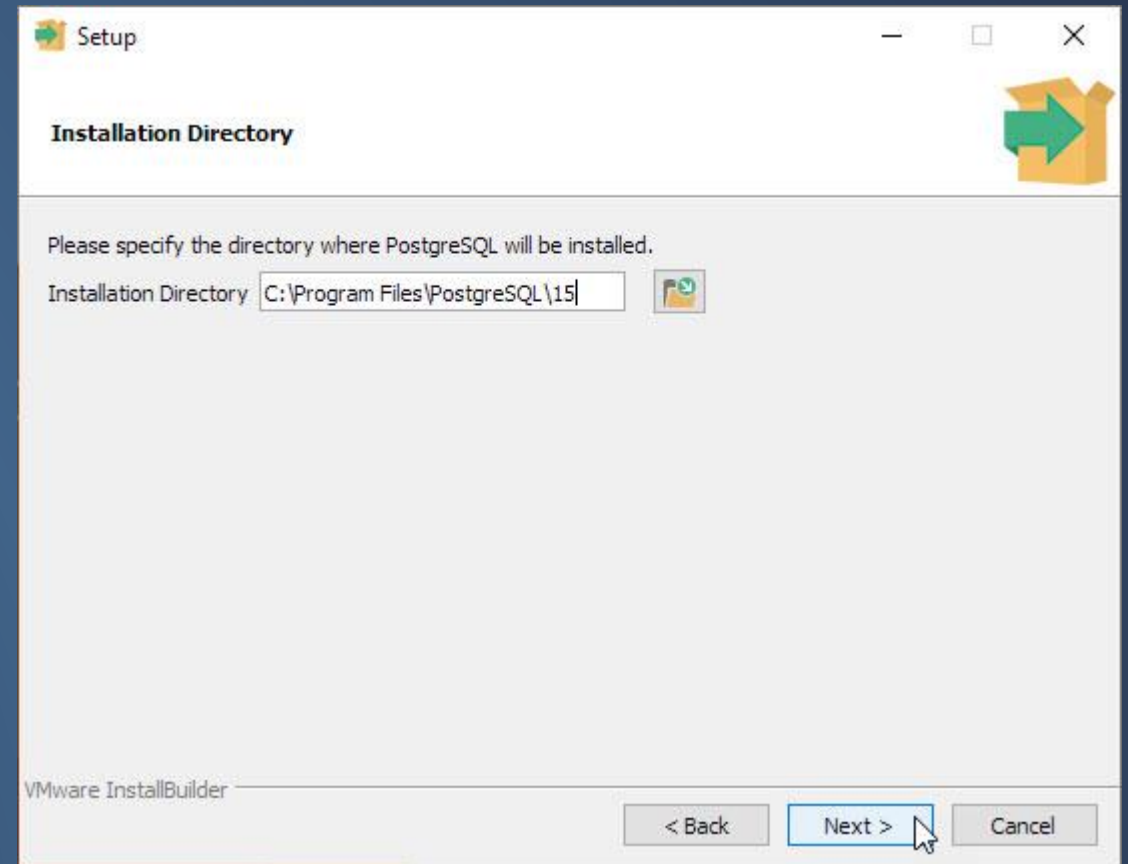
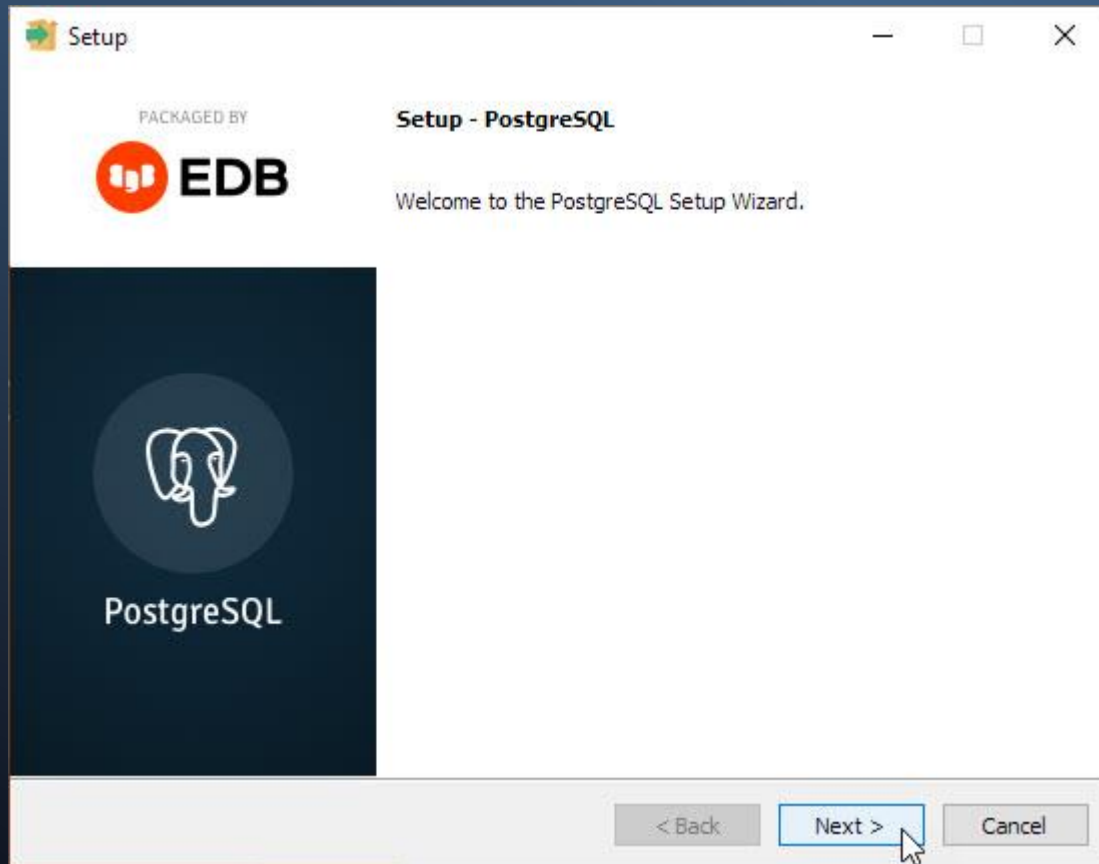
Open source PostgreSQL packages and installers from EDB

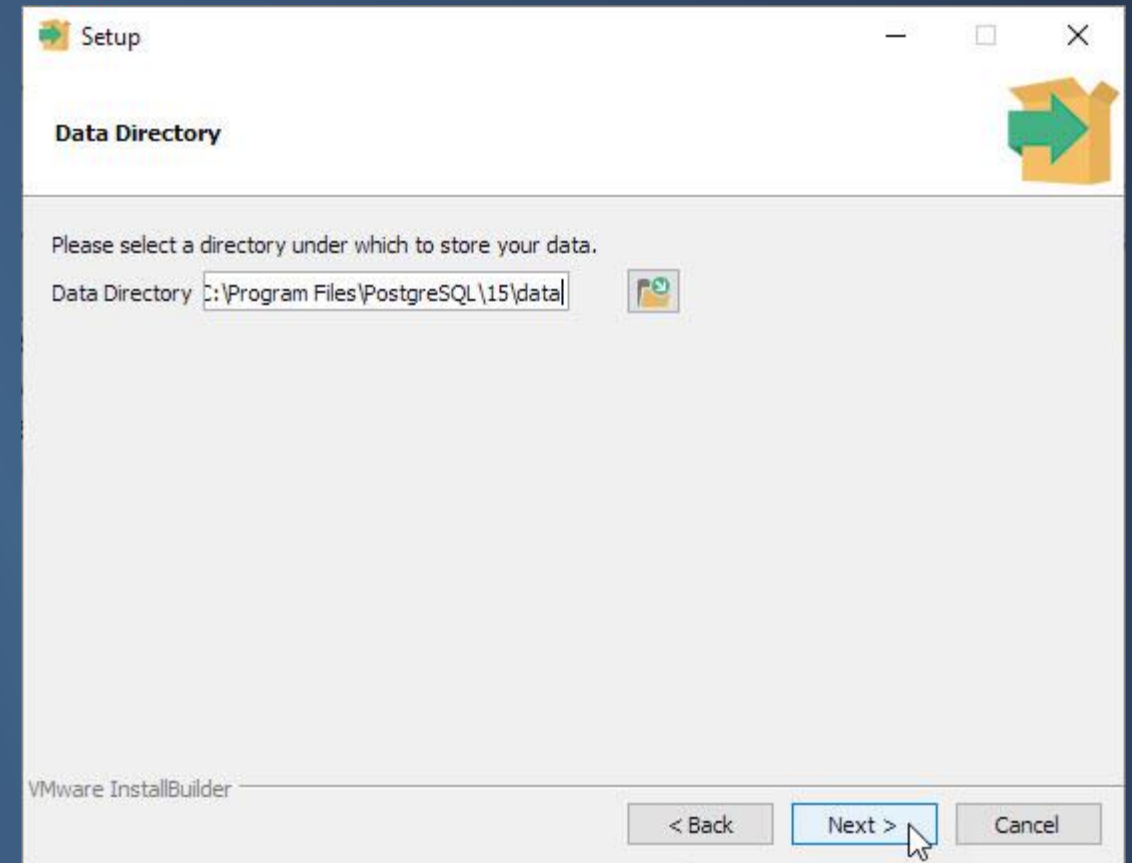
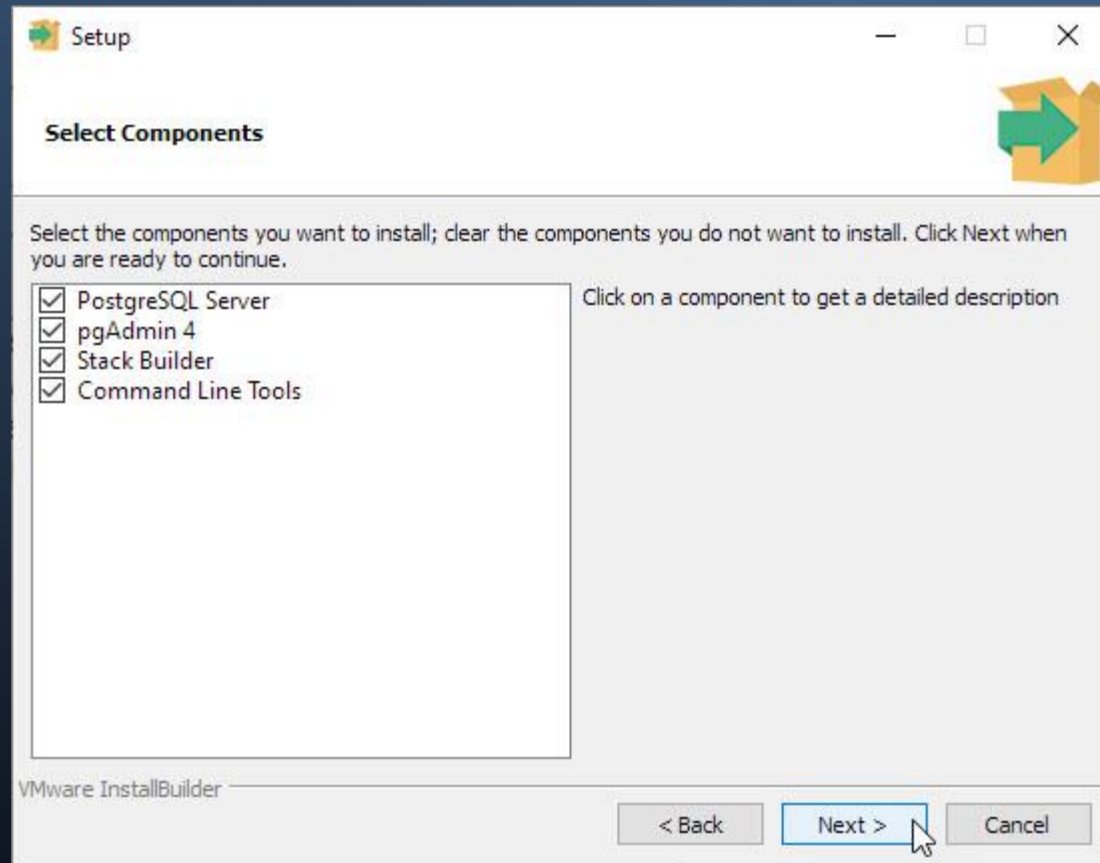
PostgreSQL Version	Linux x86-64	Linux x86-32	Mac OS X	Windows x86-64	Windows x86-32
16.2	postgresql.org	postgresql.org			Not supported
15.6	postgresql.org	postgresql.org			Not supported
14.11	postgresql.org	postgresql.org			Not supported
13.14	postgresql.org	postgresql.org			Not supported
12.18	postgresql.org	postgresql.org			Not supported

<https://www.enterprisedb.com/downloads/postgres-postgresql-downloads>

Installing PostgreSQL 15.x







Setup

Password

Please provide a password for the database superuser (postgres).

Password 123456

Retype password 123456

VMware InstallBuilder

< Back Next > Cancel

Setup

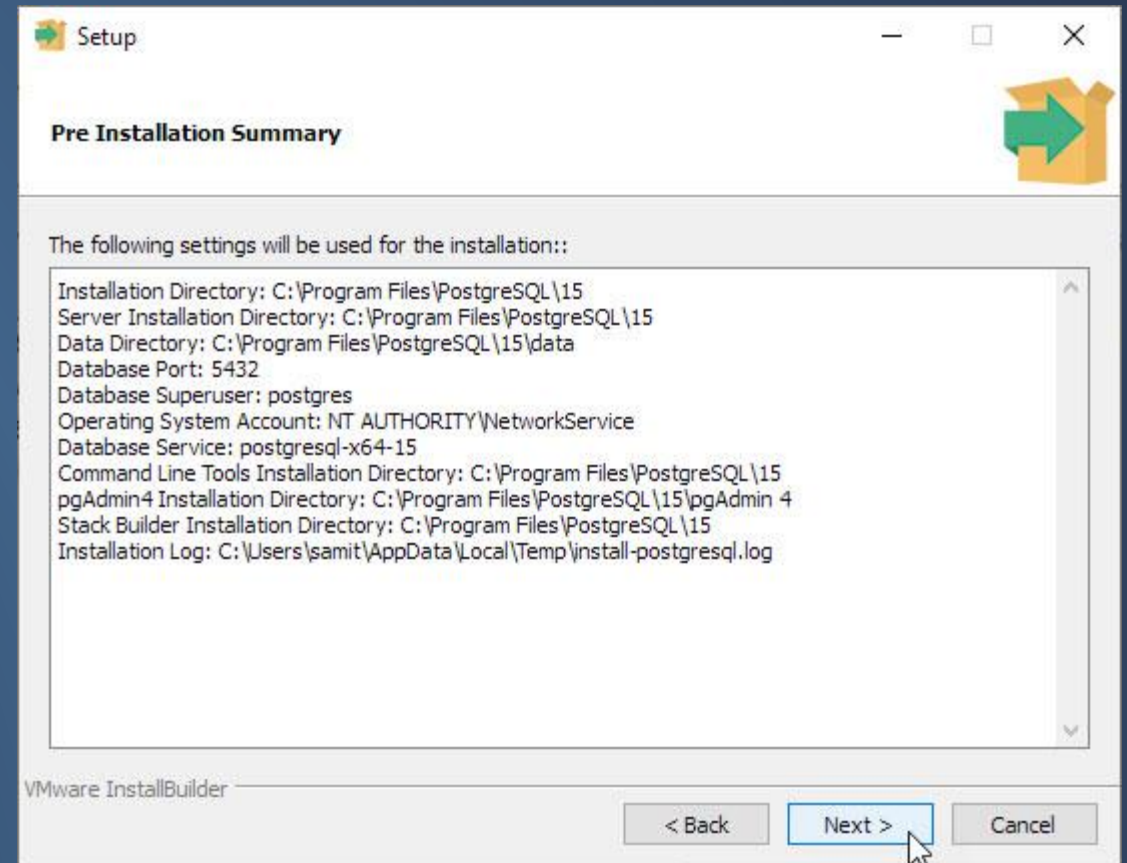
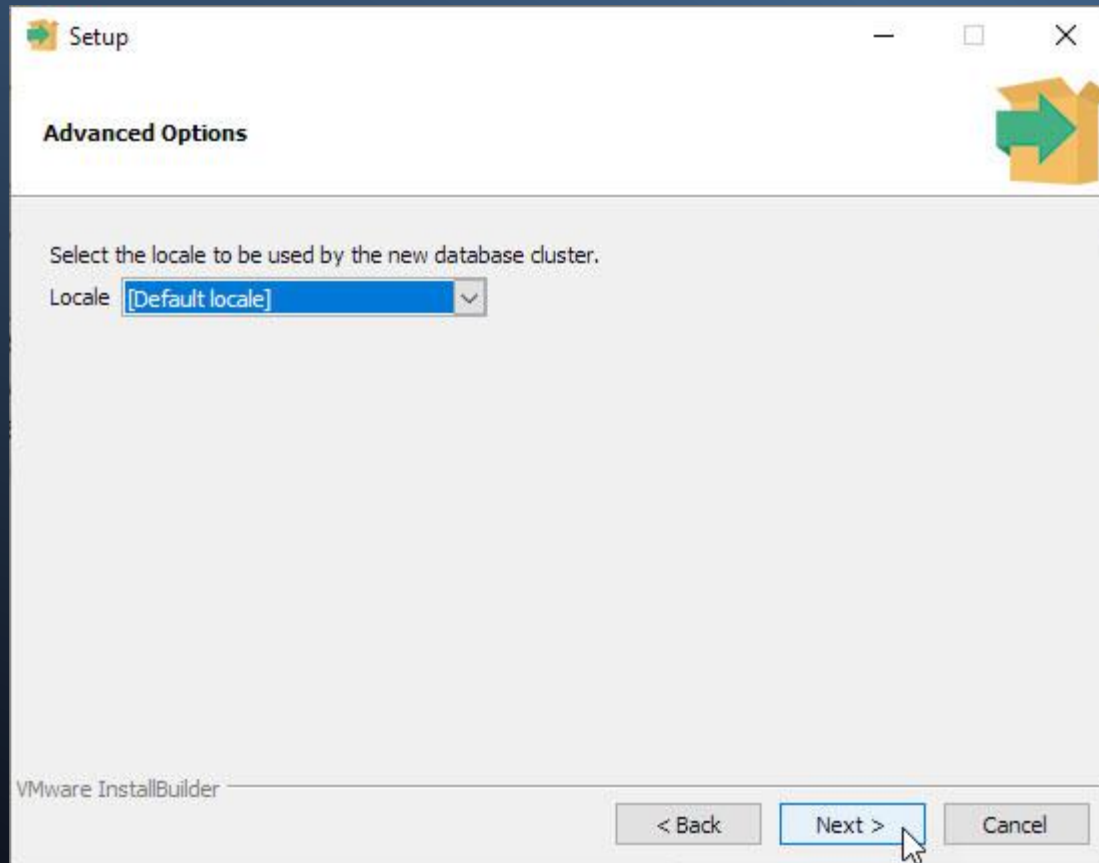
Port

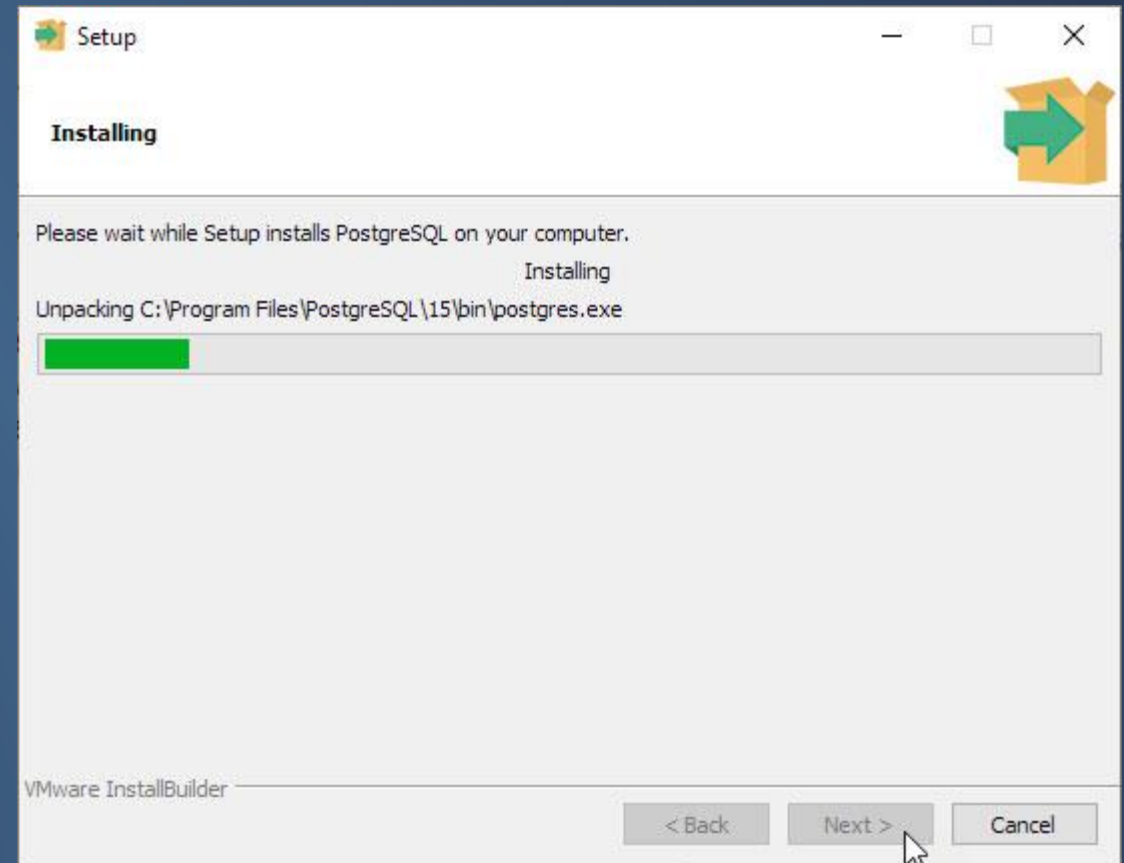
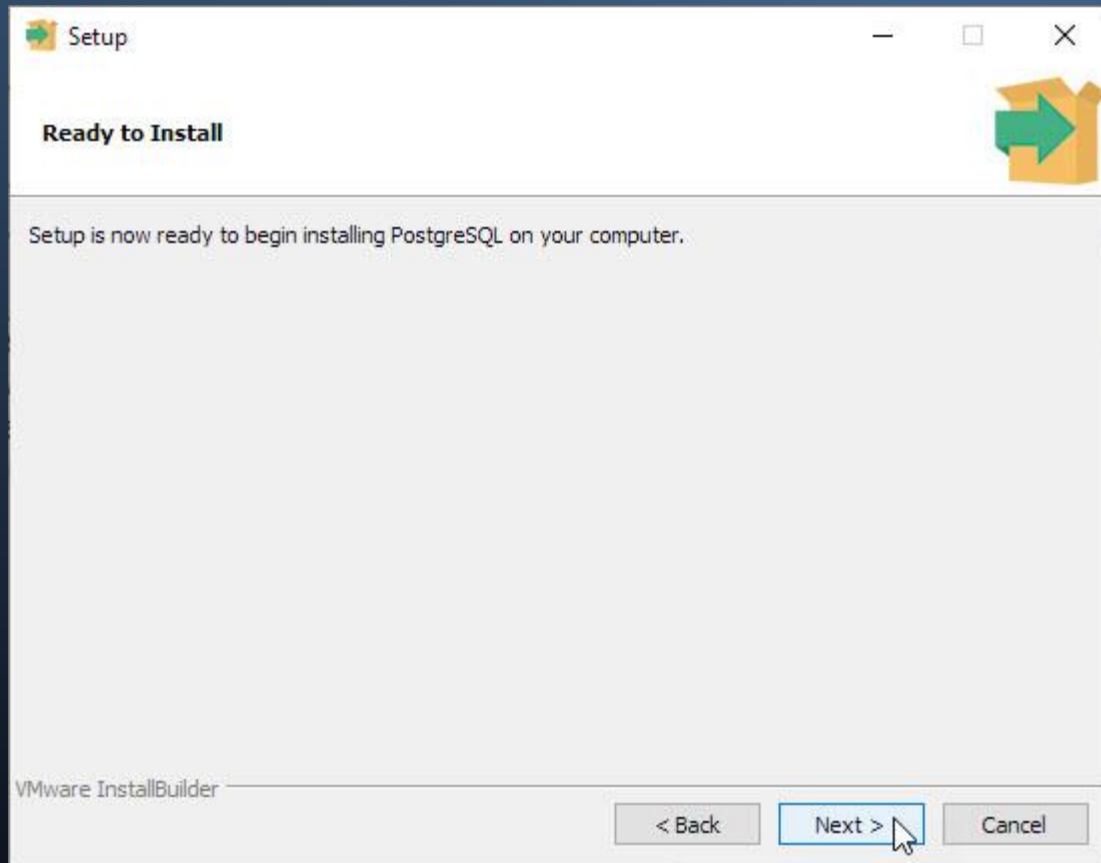
Please select the port number the server should listen on.

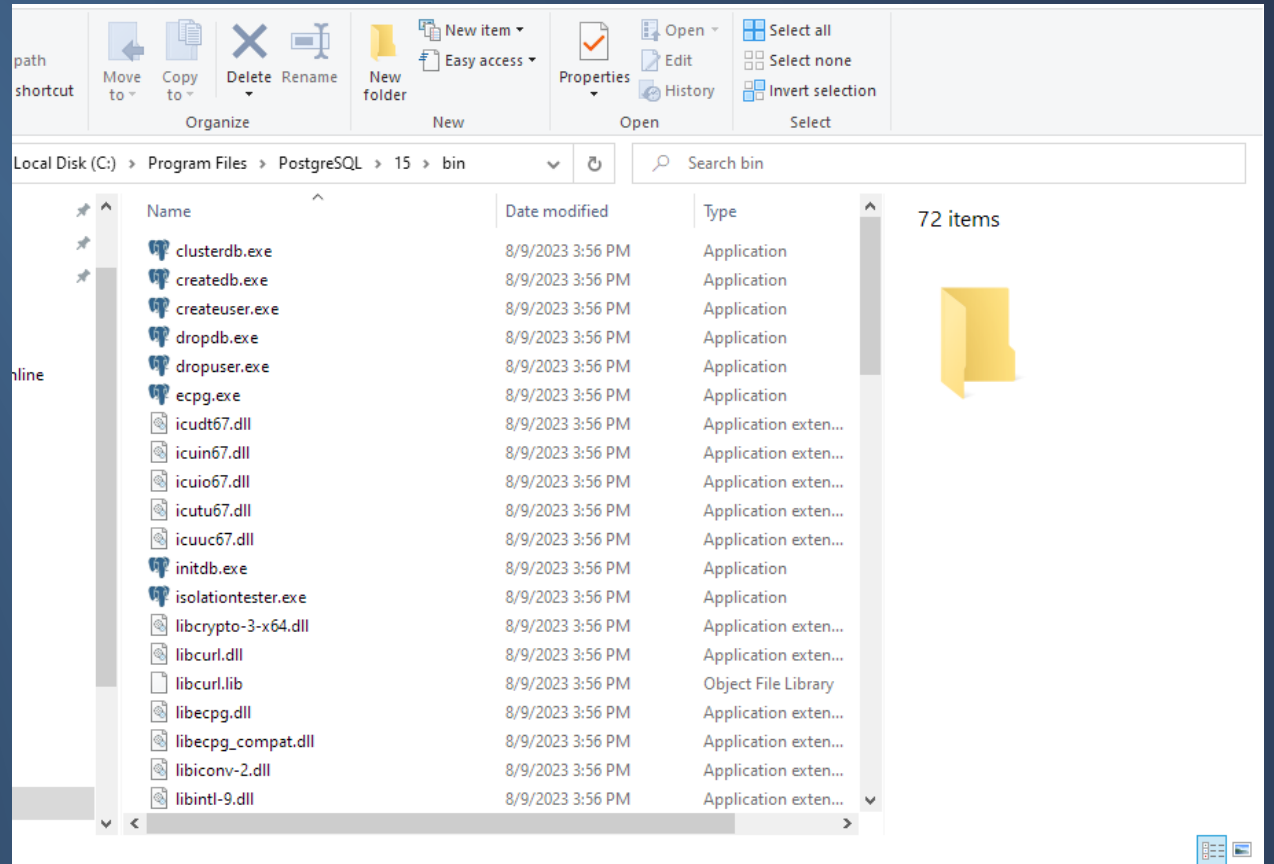
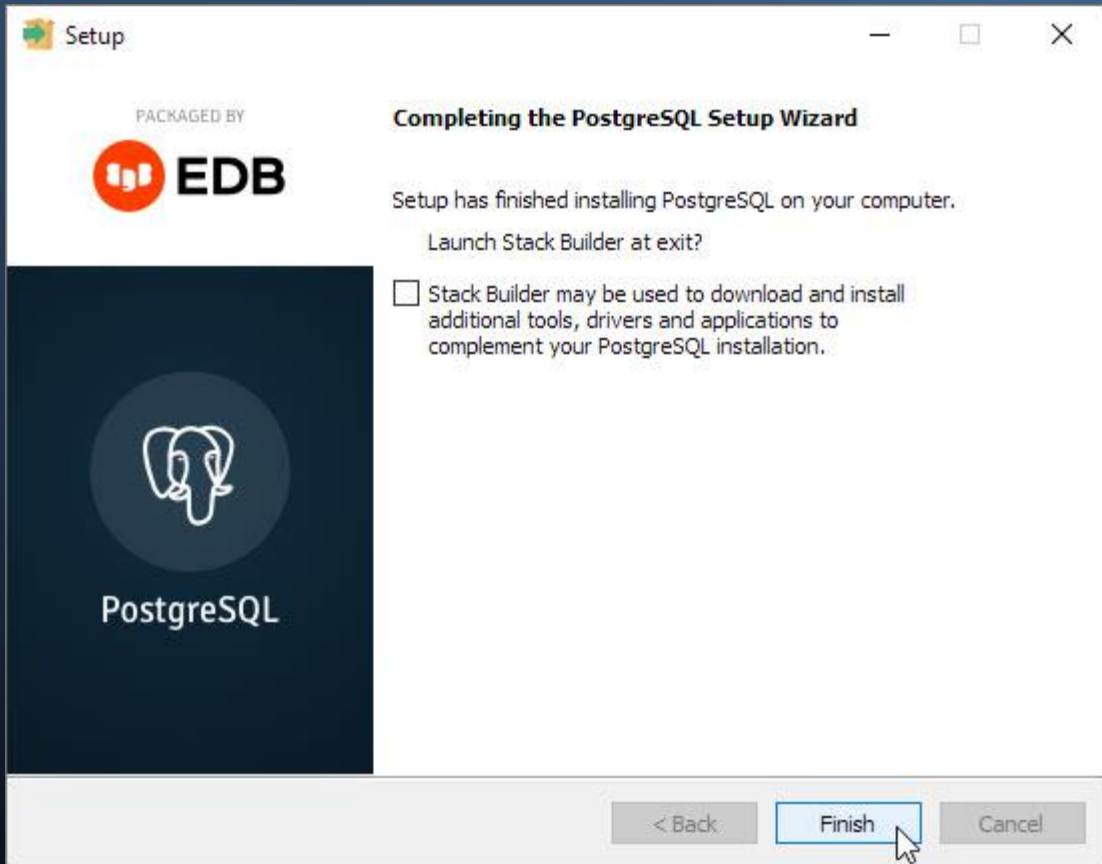
Port

VMware InstallBuilder

< Back Next > Cancel

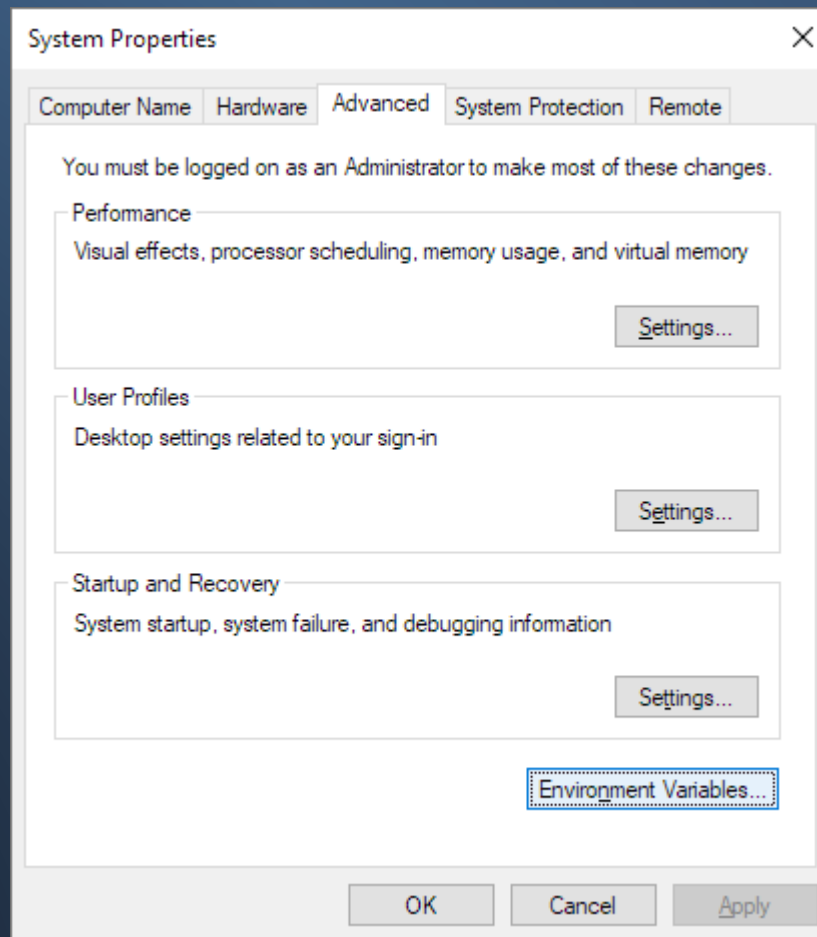






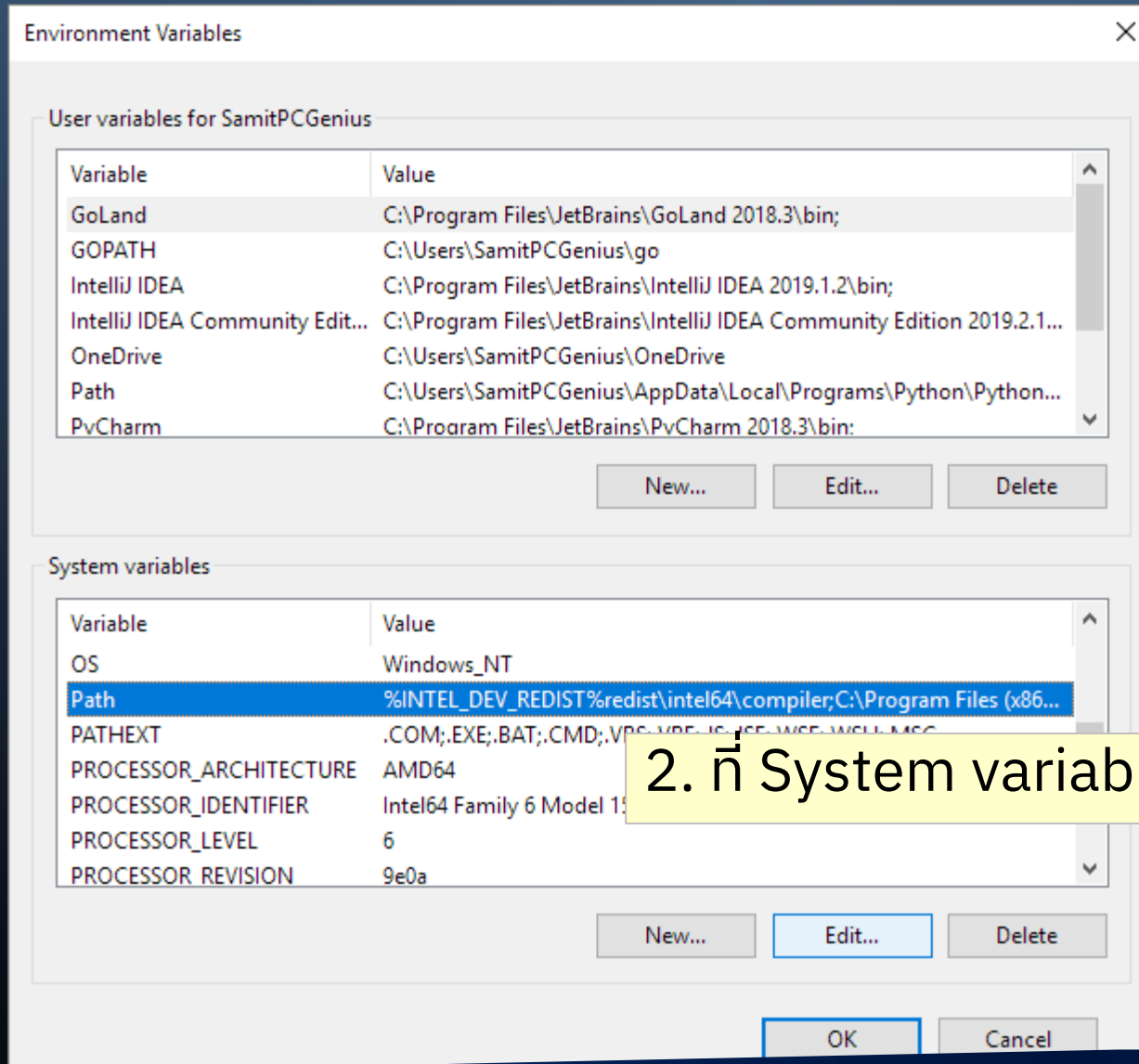
การกำหนด Path ของ PostgreSQL ให้กับ Windows

การกำหนด Path ของ PostgreSQL ให้กับ Windows

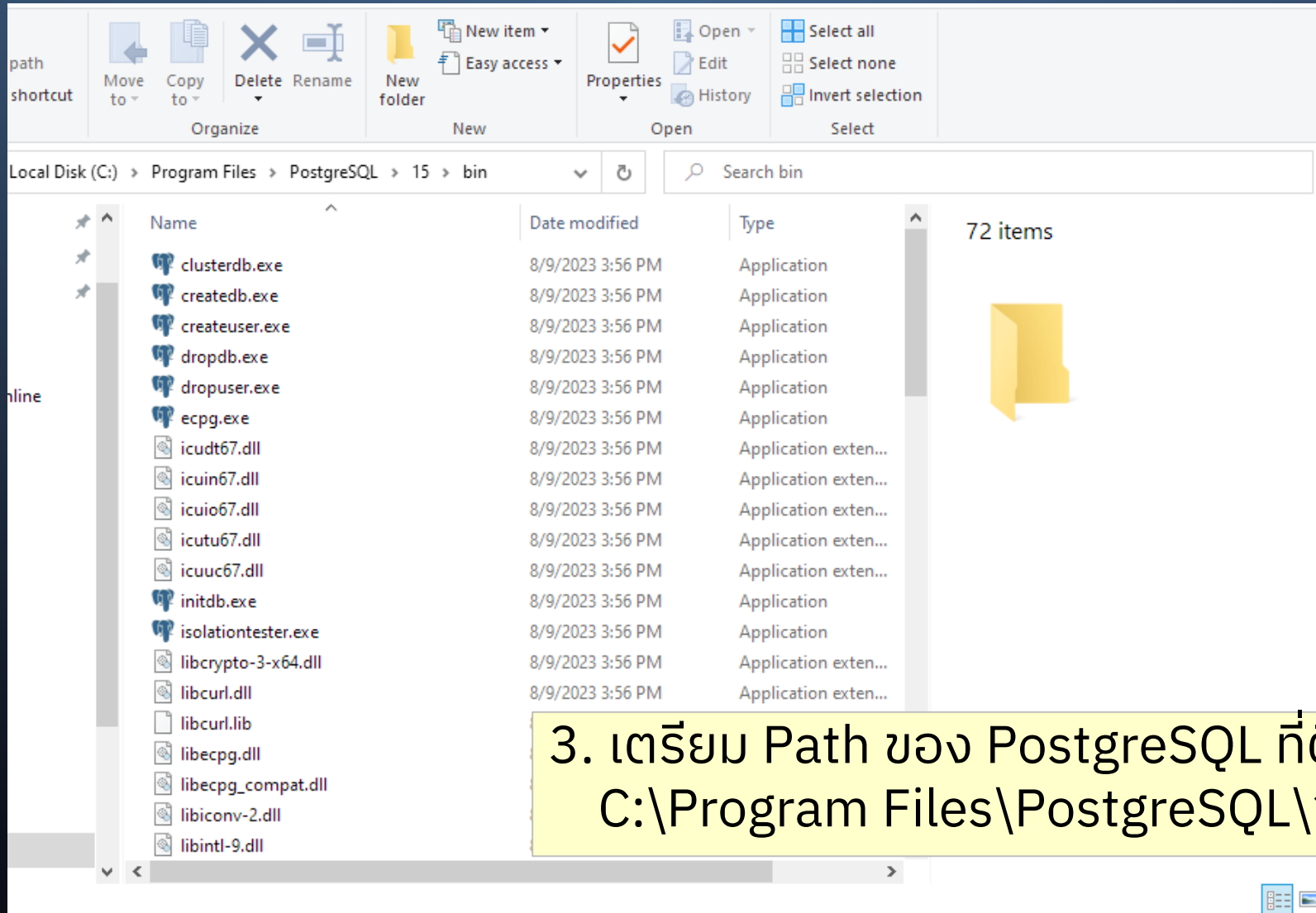


1. เข้าไปที่ System เลือก Advanced system setting ดังภาพ

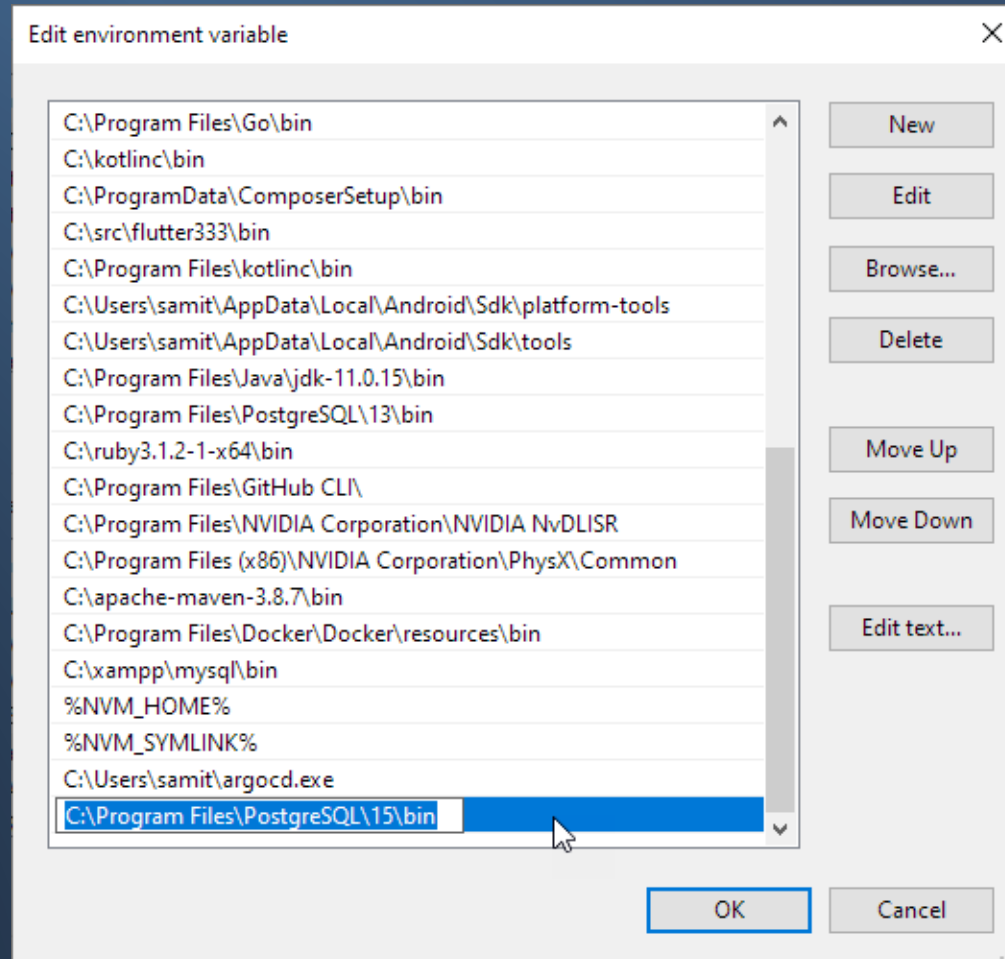
การกำหนด Path ของ PostgreSQL ให้กับ Windows



การกำหนด Path ของ PostgreSQL ให้กับ Windows



การกำหนด Path ของ PostgreSQL ให้กับ Windows



4. วาง Path ที่ได้ลงไป แล้วคลิก OK

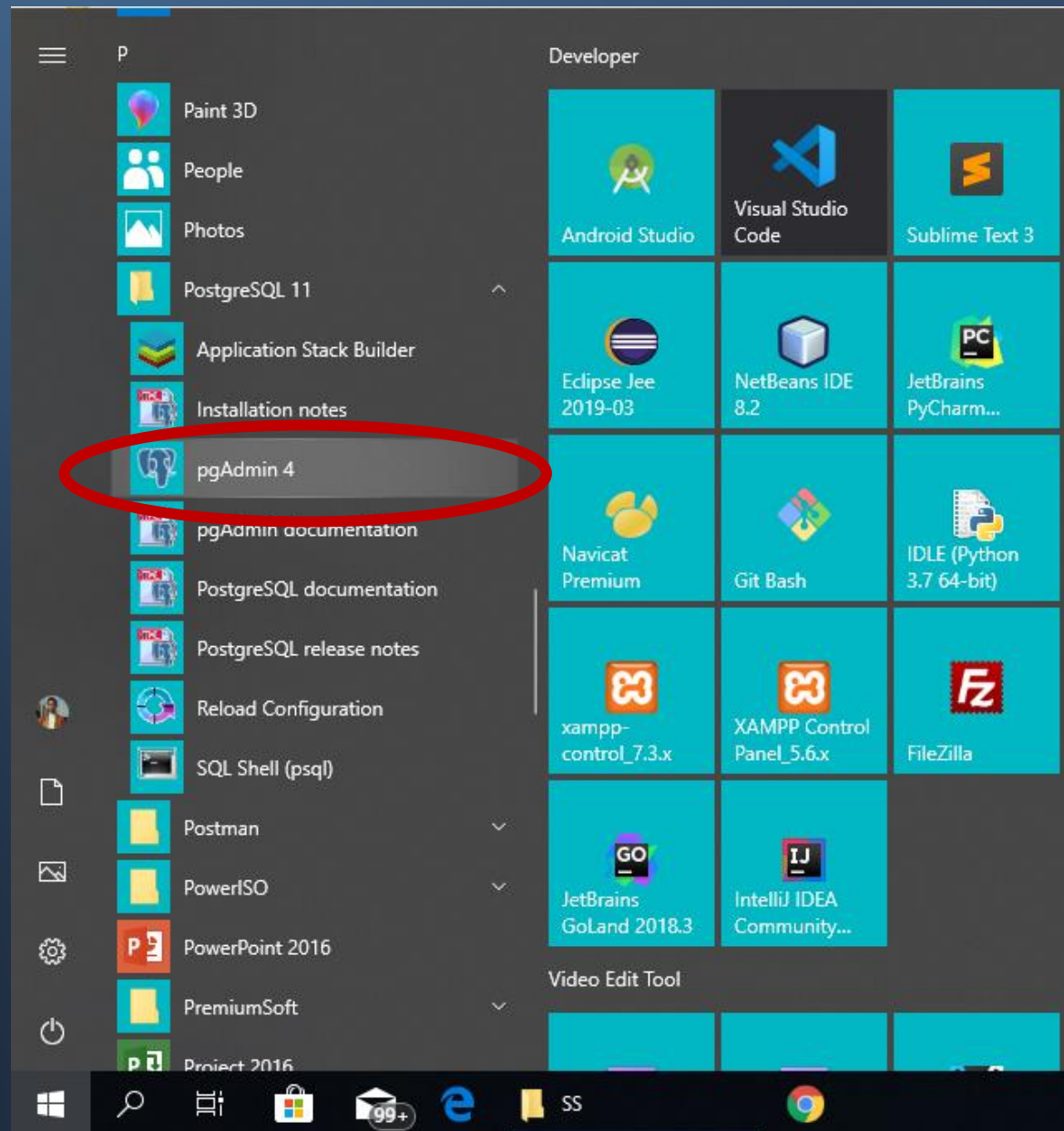
Verify the Installation

Select Command Prompt

```
C:\Users\samit>psql --version
```

```
psql (PostgreSQL) 15.4
```

```
C:\Users\samit>
```



pgAdmin 4

127.0.0.1:53306/browser/

pgAdmin 4

File ▾ Object ▾ Tools ▾ Help ▾


Browser

⚡ 📊 ⚙️

Dashboard Properties SQL Statistics Dependencies Dependents

> 📁 Servers (1)


Welcome


 **pgAdmin**
Management Tools for PostgreSQL

Feature rich | Maximises PostgreSQL | Open Source


pgAdmin is an Open Source administration and management tool for the PostgreSQL database. It includes a graphical administration interface, an SQL query tool, a procedural code debugger and much more. The tool is designed to answer the needs of developers, DBAs and system administrators alike.


Quick Links


 Add New Server


 Configure pgAdmin

Getting Started

 PostgreSQL Documentation

 pgAdmin Website

 Planet PostgreSQL

 Community Support

pgAdmin 4

127.0.0.1:53306/browser/

pgAdmin 4

File Object Tools Help

Browser

Servers (1)

PostgreSQL 11

Dashboard Properties SQL Statistics Dependencies Dependents

Please connect to the selected server to view the dashboard.

Connect to Server

Please enter the password for the user 'postgres' to connect the server - "PostgreSQL 11"

Password

.....

☐ Save Password

Cancel OK

pgAdmin 4

File Object Tools Help

Object Explorer

PostgreSQL 15

Databases (1)

postgres

Casts

Catalogs

Event Triggers

Extensions

Foreign Data Wrappers

Languages

Publications

Schemas

Subscriptions

Login/Group Roles (13)

pg_checkpoint

pg_database_owner

pg_execute_server_program

pg_monitor

pg_read_all_data

pg_read_all_settings

pg_read_all_stats

pg_read_server_files

pg_signal_backend

pg_stat_scan_tables

pg_write_all_data

pg_write_server_files

postgres

Tablespaces (2)

pg_default

pg_global

Dashboard Properties SQL Statistics Dependencies Dependents

Server sessions

Total Active Idle

Transactions per second

Transactions Commits Rollbacks

Tuples in

Inserts Updates Deletes

Tuples out

Fetches Returned

Block I/O

Reads Hits

Server activity

Sessions Locks Prepared Transactions Configuration

Active sessions only

Search

			PID	Database	User	Application	Client	Backend start	Transaction start	State	Wait event
✖	■	▶	1756		postgr...			2023-10-25 01:01:02...			Activity: Logi
✖	■	▶	4400	postgres	postgr...	pgAdmin 4 - DB:post...	::1	2023-10-25 01:08:50...	2023-10-25 01:09:17...	act...	
✖	■	▶	5056					2023-10-25 01:01:02...			Activity: Walv
✖	■	▶	12752					2023-10-25 01:01:02...			Activity: BgW
✖	■	▶	15428					2023-10-25 01:01:02...			Activity: Chec
✖	■	▶	16532					2023-10-25 01:01:02...			Activity: Auto



ติดตั้ง Docker Desktop



System Requirements Windows



Docker Engine 24.x

Docker Desktop 4.27.x

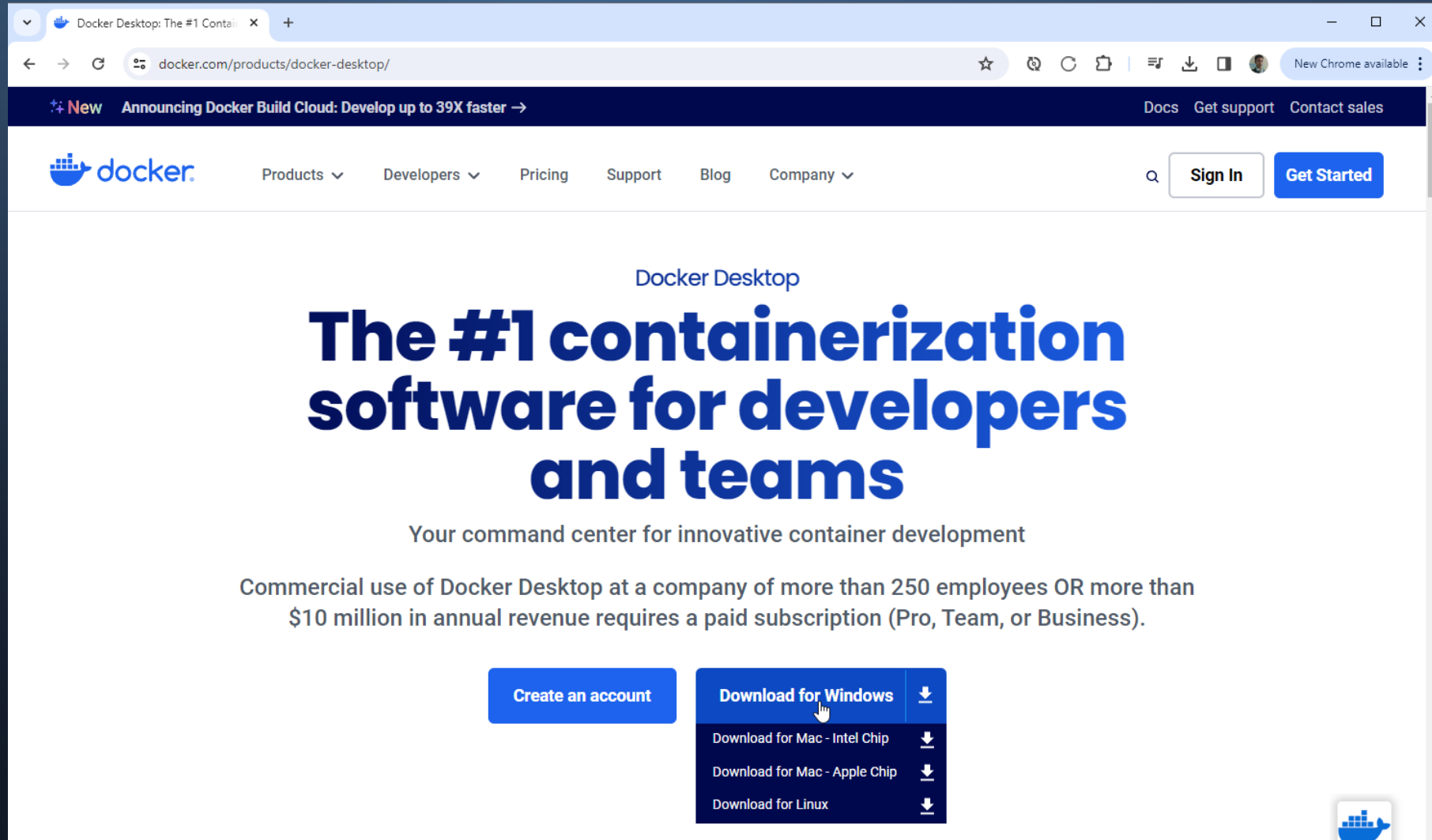


- Windows 10 64-bit: Pro 2004 (build 19041) or higher, or Enterprise or Education 1909 (build 18363) or higher.
- For Windows 10 Home, see System requirements for WSL 2 backend.
- Hyper-V and Containers Windows features must be enabled.
- The following hardware prerequisites are required to successfully run Client Hyper-V on Windows 10:
 - 64 bit processor with Second Level Address Translation (SLAT)
 - 4GB system RAM
 - BIOS-level hardware virtualization support must be enabled in the BIOS settings

<https://docs.docker.com/desktop/windows/install/>

Download Docker Desktop for Windows

<https://www.docker.com/products/docker-desktop>



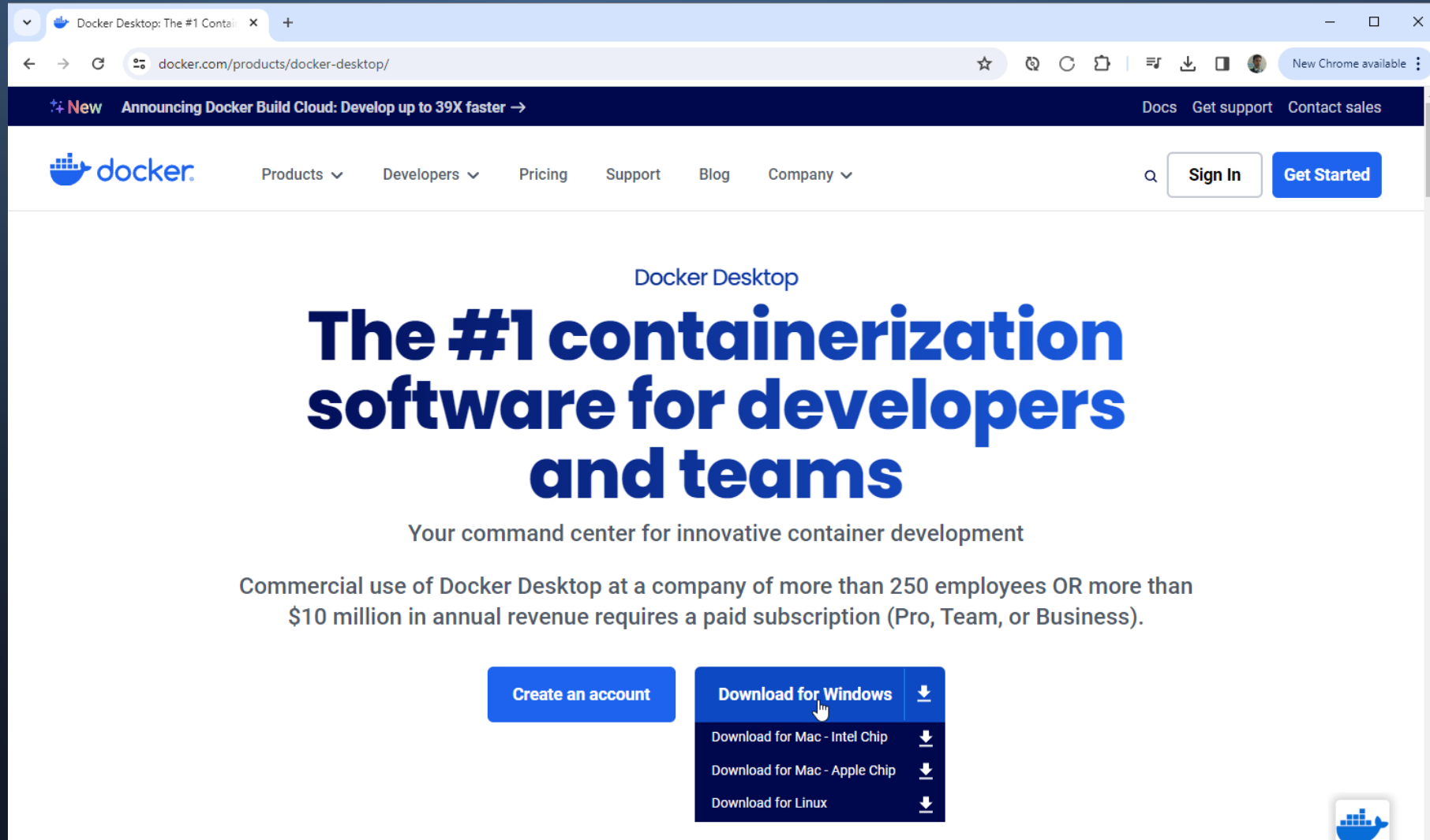


ติดตั้ง Docker Desktop

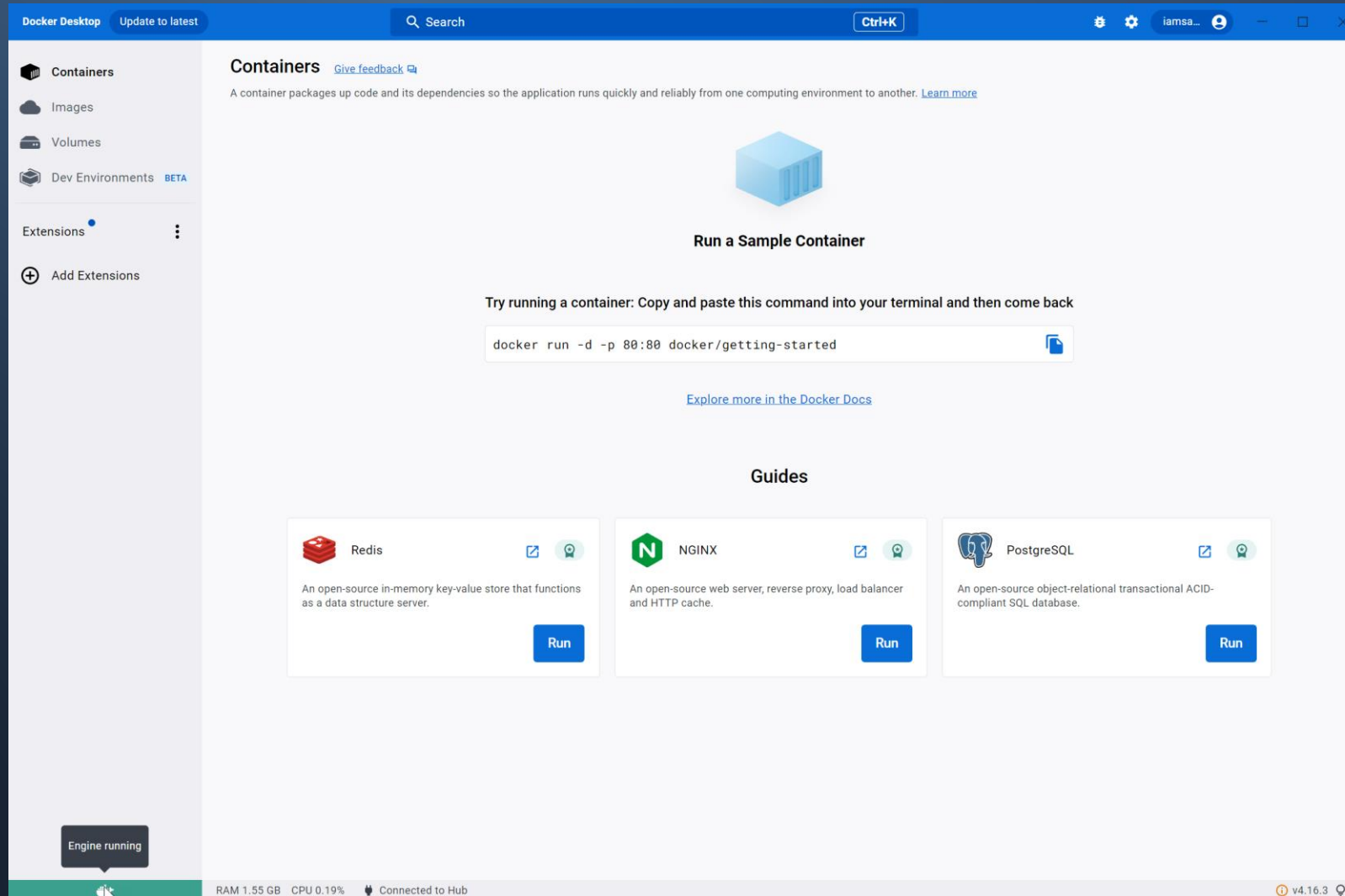


Download Docker Desktop for Mac

<https://www.docker.com/products/docker-desktop/>



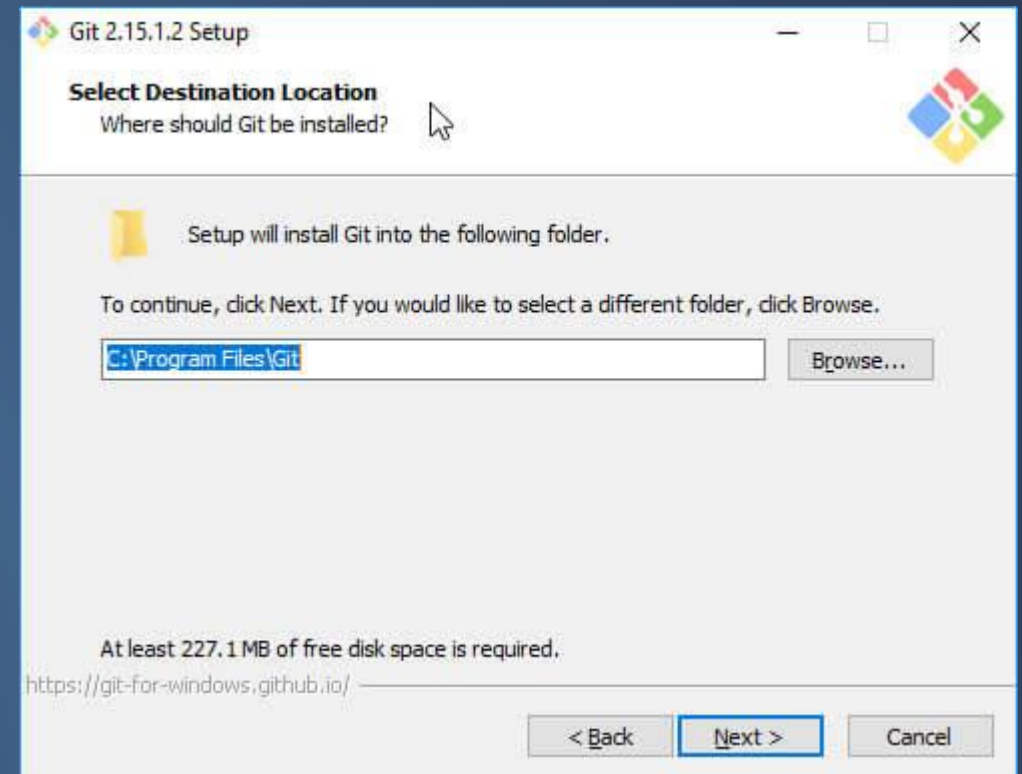
ตัวอย่าง Docker Desktop หลังจากติดตั้งเรียบร้อยแล้ว

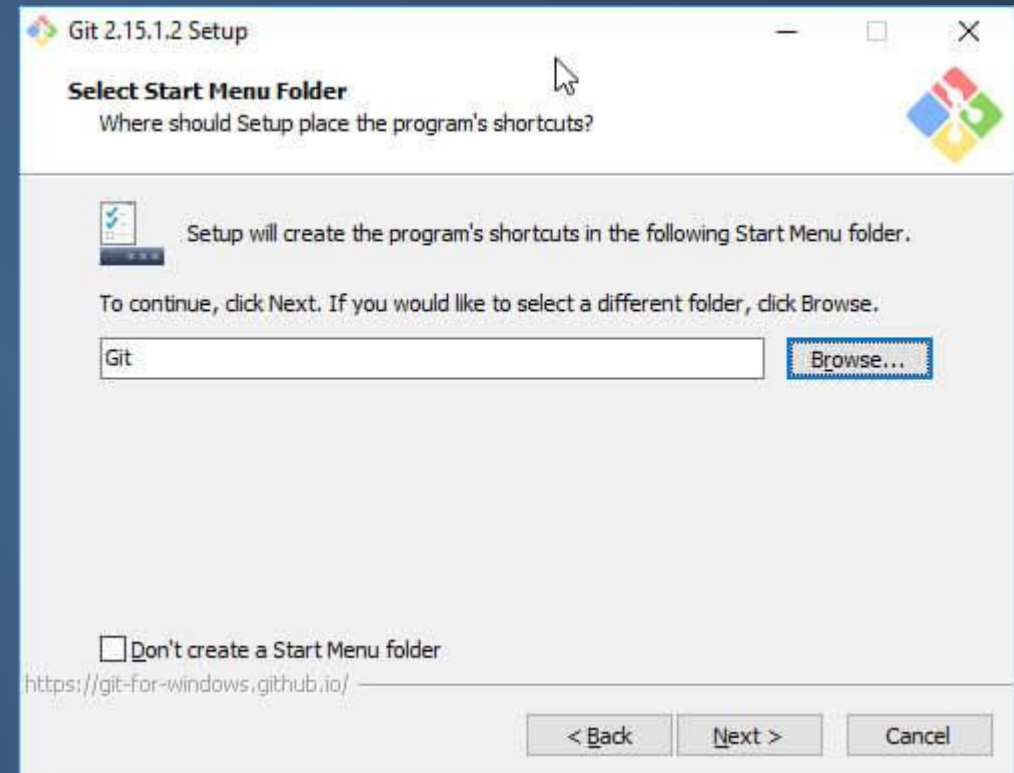
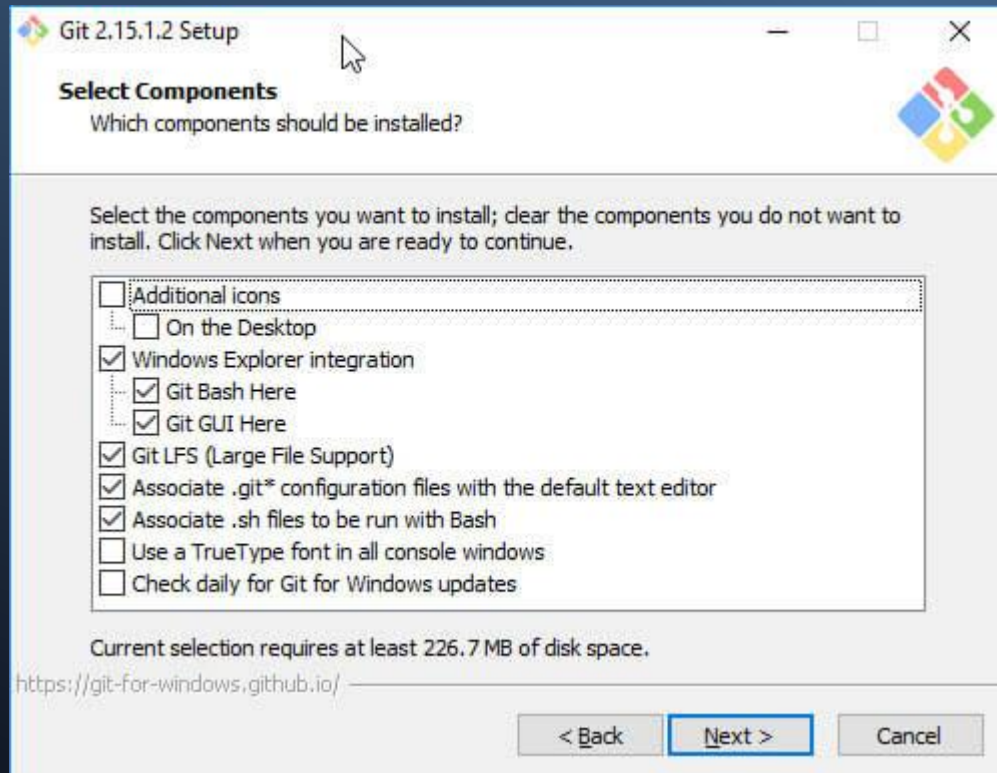


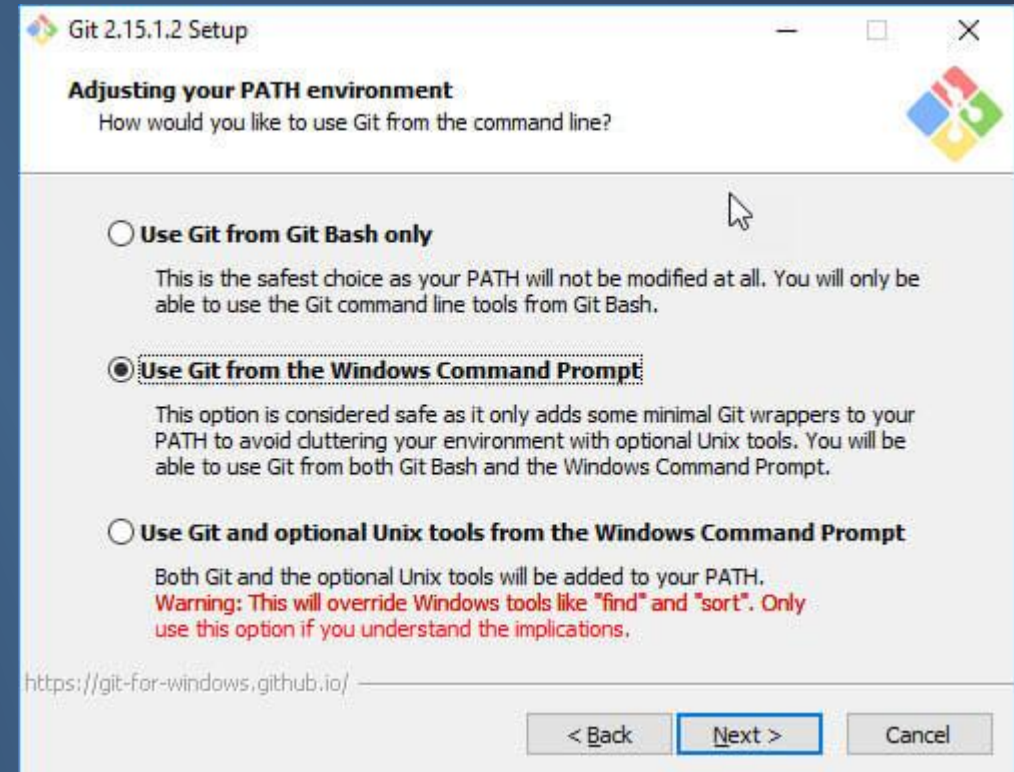
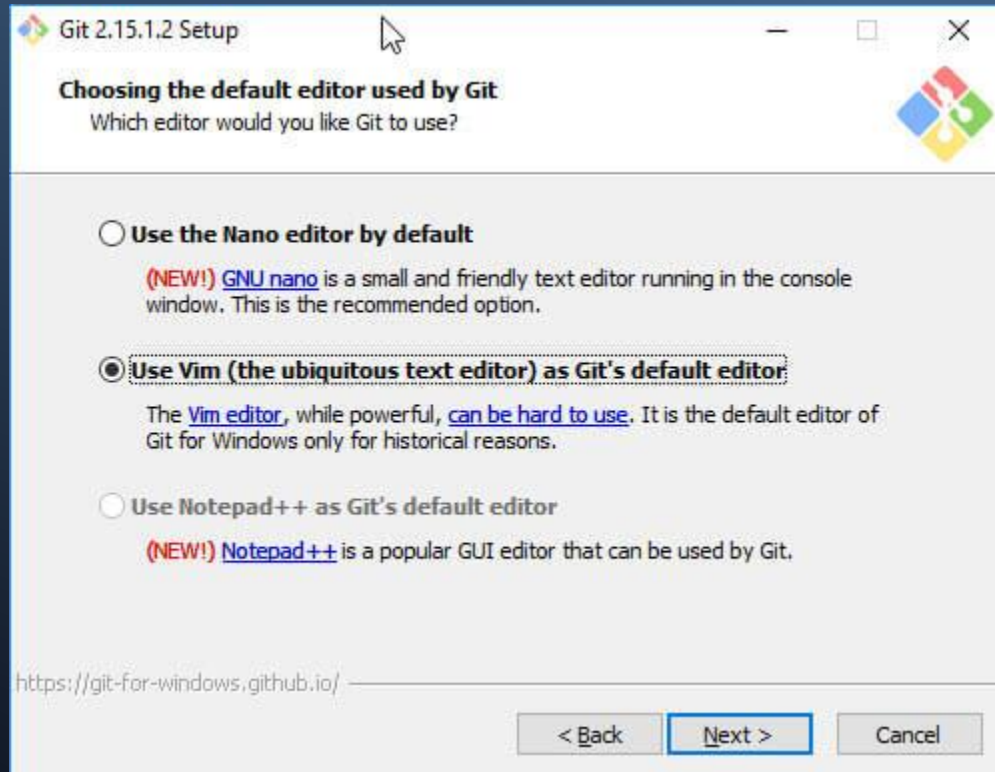


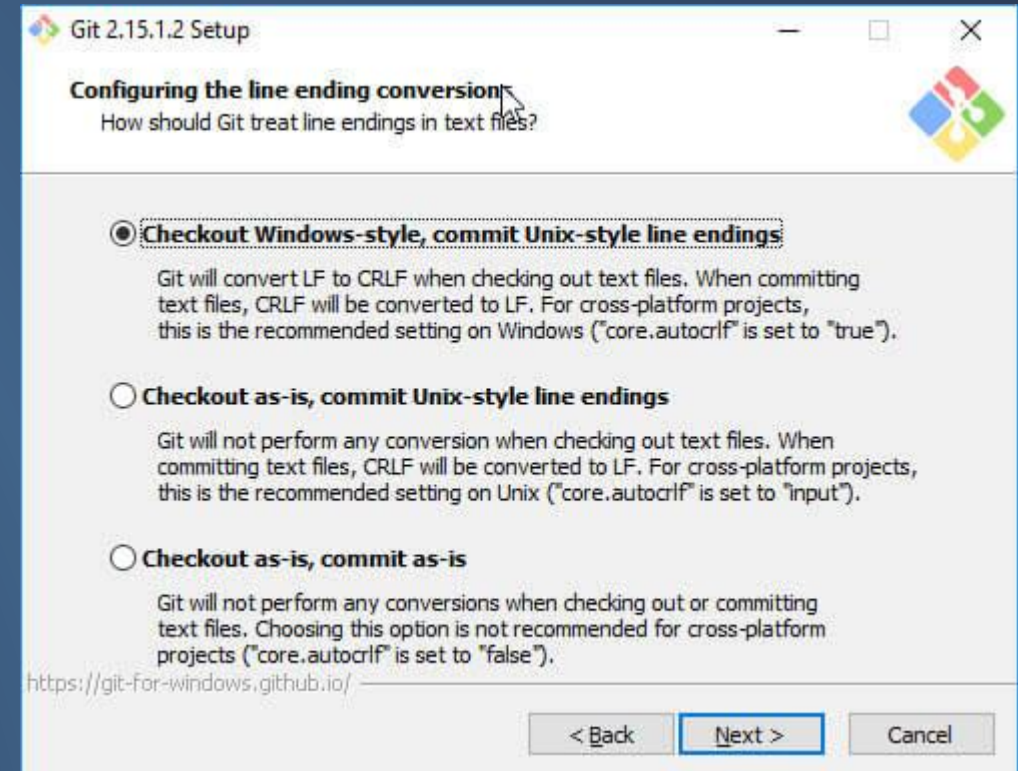
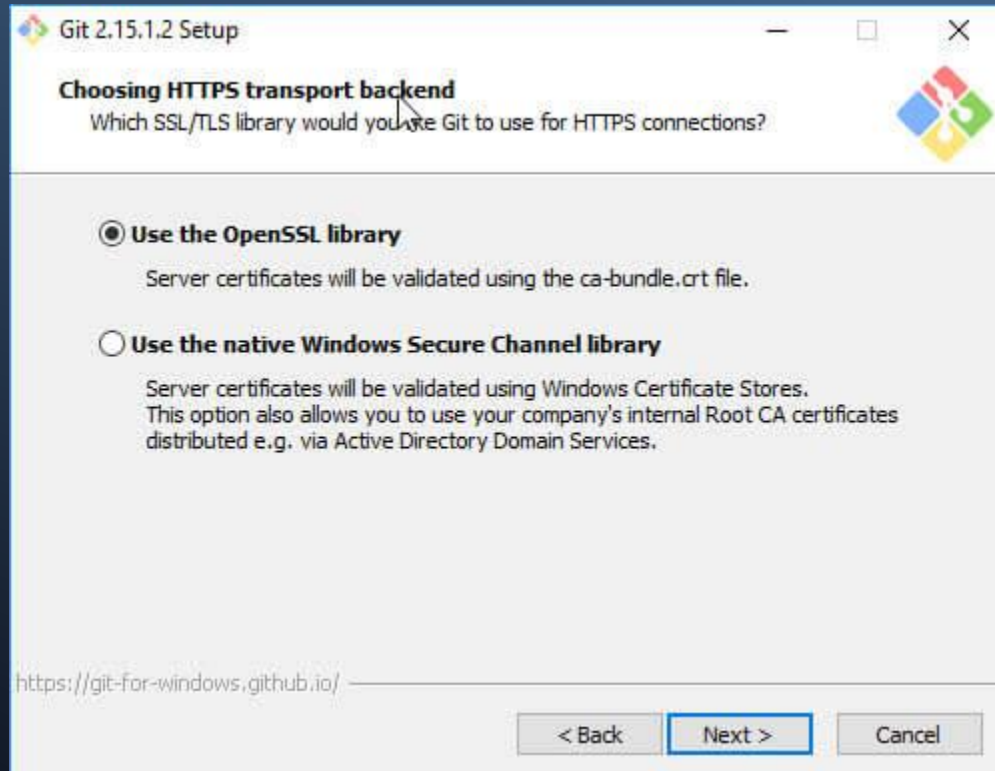
ติดตั้ง Git

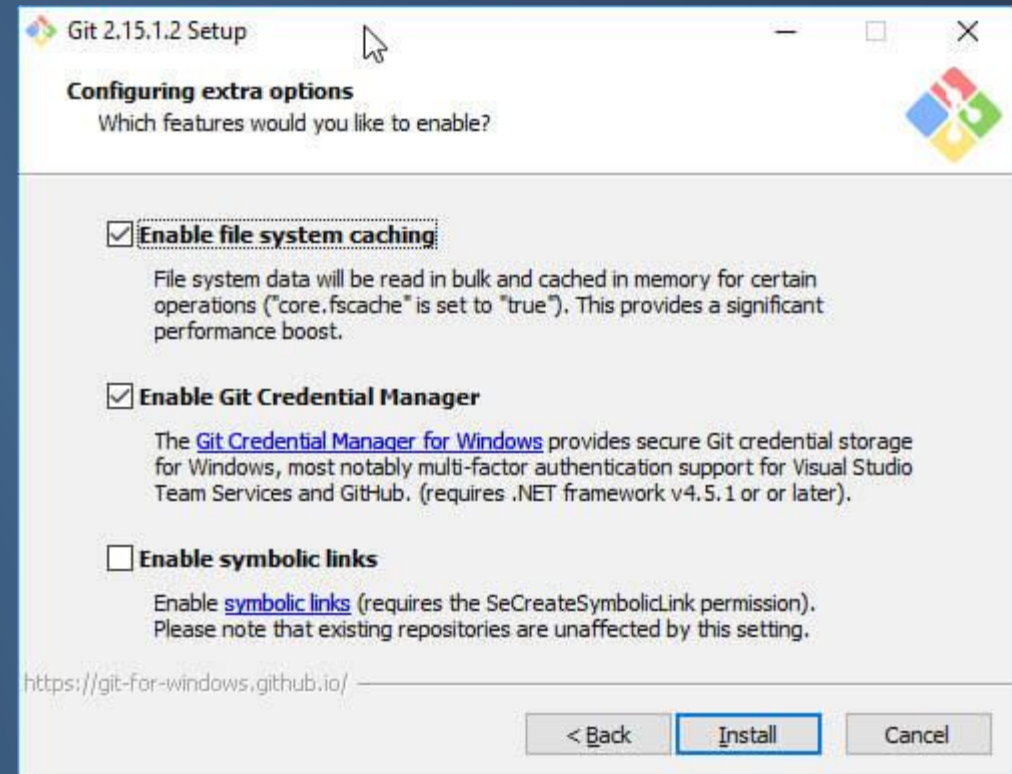
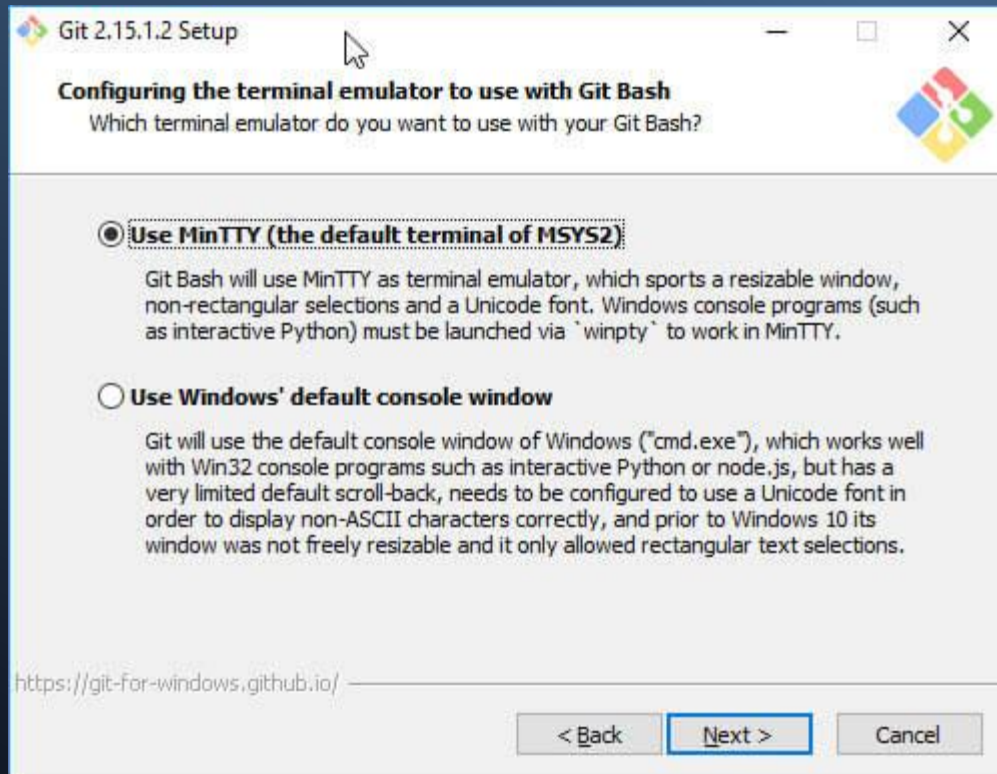


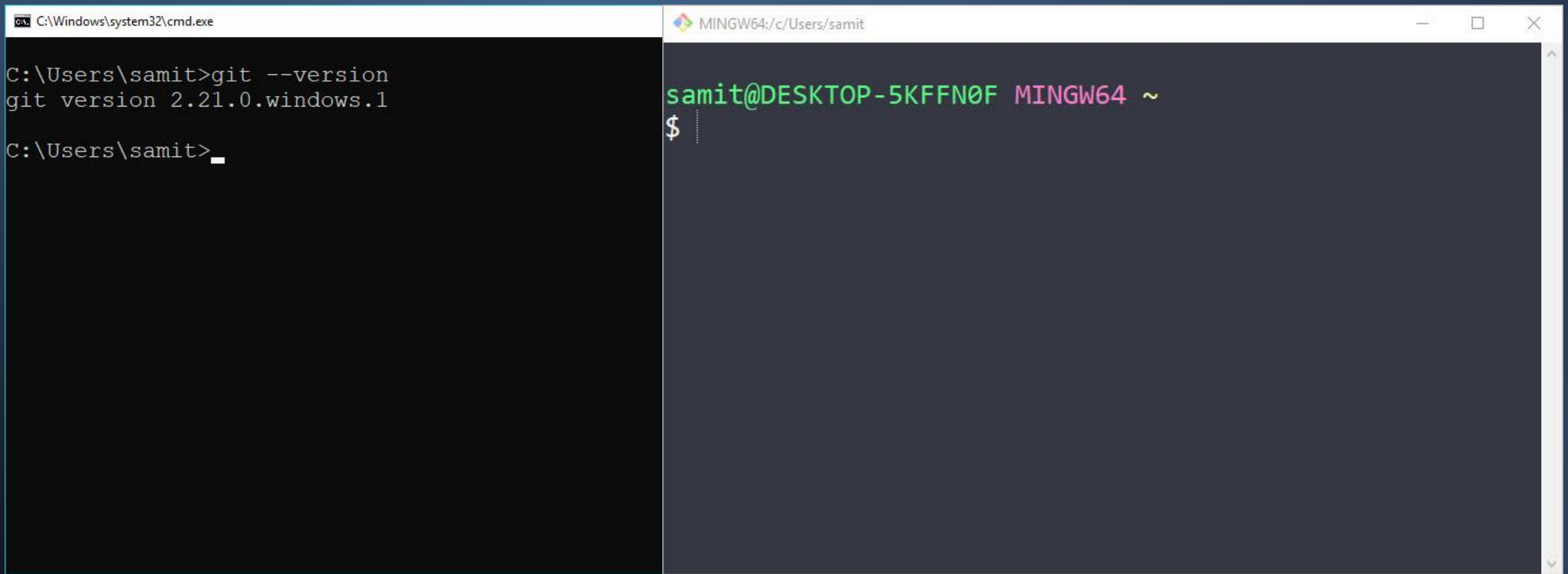












```
C:\Windows\system32\cmd.exe
C:\Users\samit>git --version
git version 2.21.0.windows.1
C:\Users\samit>_

MINGW64:/c/Users/samit
samit@DESKTOP-5KFFN0F MINGW64 ~
$
```

git --version



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