

APPIUM WINDOWS INSTALLATION STEP BY STEP PROCEDURE

Requirements

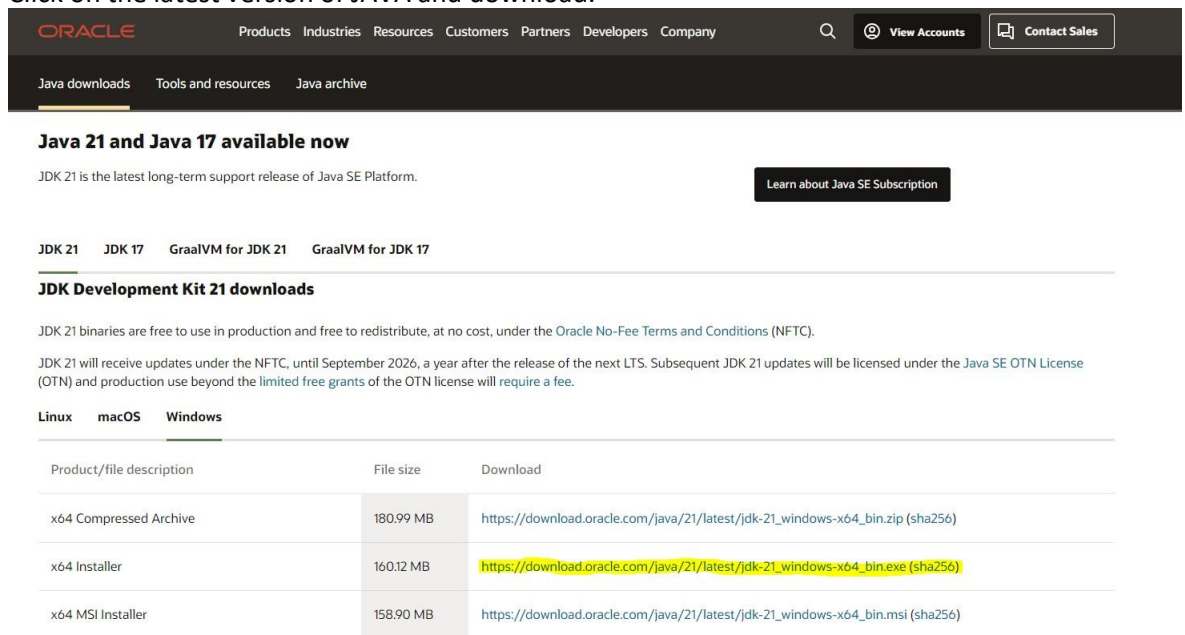
- Appium (latest version)
- Android SDK
- Any IDE
- Java (JDK) greater than 11
- Node JS (optional only if we use Appium GUI)

IDE Installation

Install Eclipse or IntelliJ or any IDE of your choice

Java Installation

1. To install java latest version, navigate to the below link [Java Downloads | Oracle India](#)
2. Click on the latest version of JAVA and download.



The screenshot shows the Oracle Java Downloads page for Windows. It highlights the availability of Java 21 and Java 17. Below this, there's a section for 'JDK Development Kit 21 downloads' with a table of download links for different file formats.

Product/file description	File size	Download
x64 Compressed Archive	180.99 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.zip (sha256)
x64 Installer	160.12 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe (sha256)
x64 MSI Installer	158.90 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.msi (sha256)

3. After download completed, double click on exe file.
4. Once installation is completed, open the cmd prompt and enter the below command
java -version
5. Should display the version of java installed.
6. If shown JAVA installation is completed.

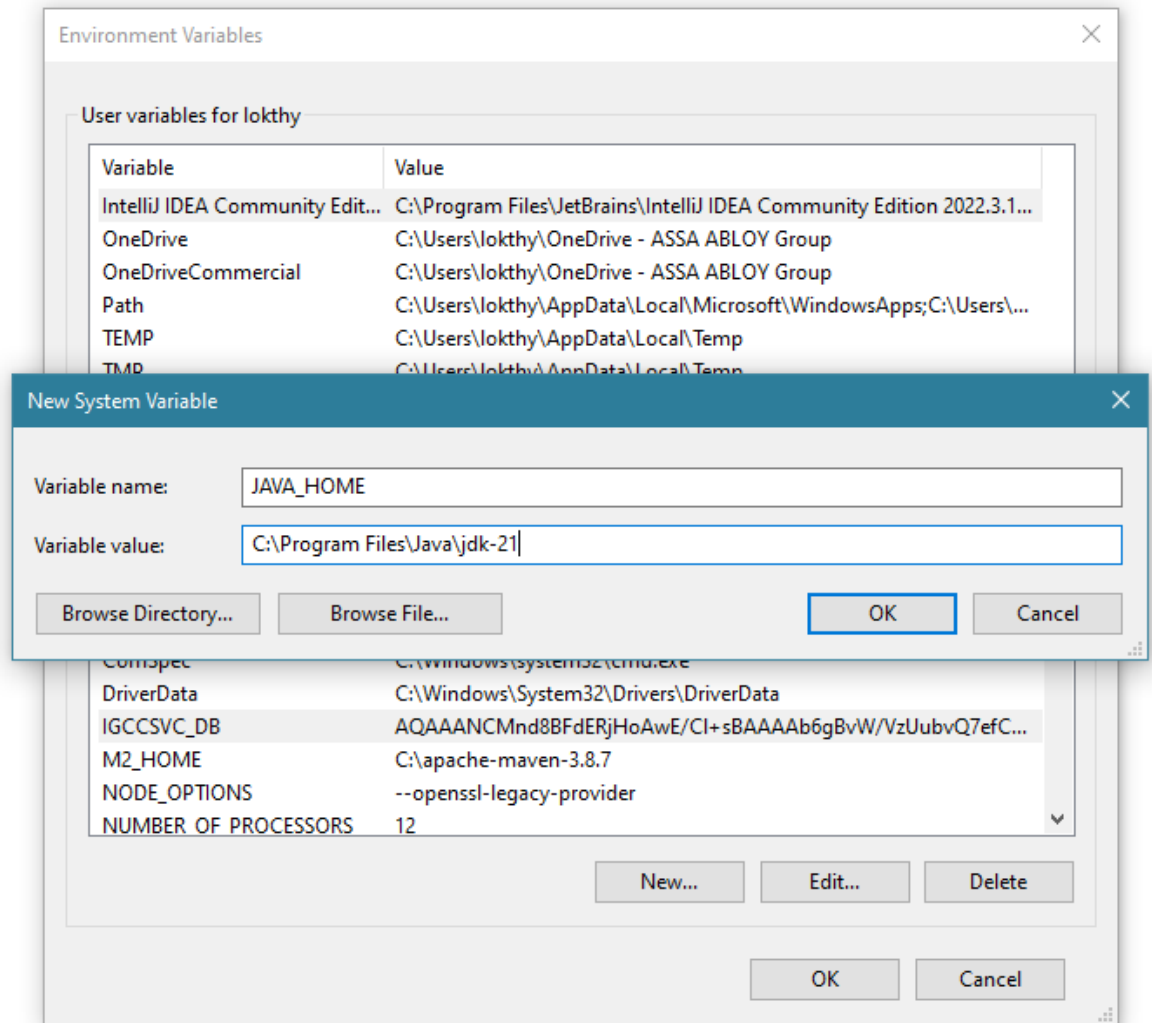
NOTE: You can install any version of JDK which is greater than version 11.

To set JAVA Path (Environment variables)

1. Go to Control Panel → System and Security → System → Click on Advanced System Settings
2. Click on the Environment Variables
3. Under System Variables → Click New (Don't use User Variables)

Appium Windows Installation

4. Set **JAVA_HOME** environment variable as **C:\Program Files\Java\.....** (Note: Provide correct path of folder and it **bin** should not include at the end)



5. Select the **Path** system variable and click the Edit button
6. Add **%JAVA_HOME%\bin** to the path variable and click OK
7. Save the environment variable screen.
8. Open a **new** cmd prompt and type **echo %JAVA_HOME%** and verify the path is displayed in cmd prompt.
9. If **JAVA_HOME** path is shown, then JAVA environment variable is set.

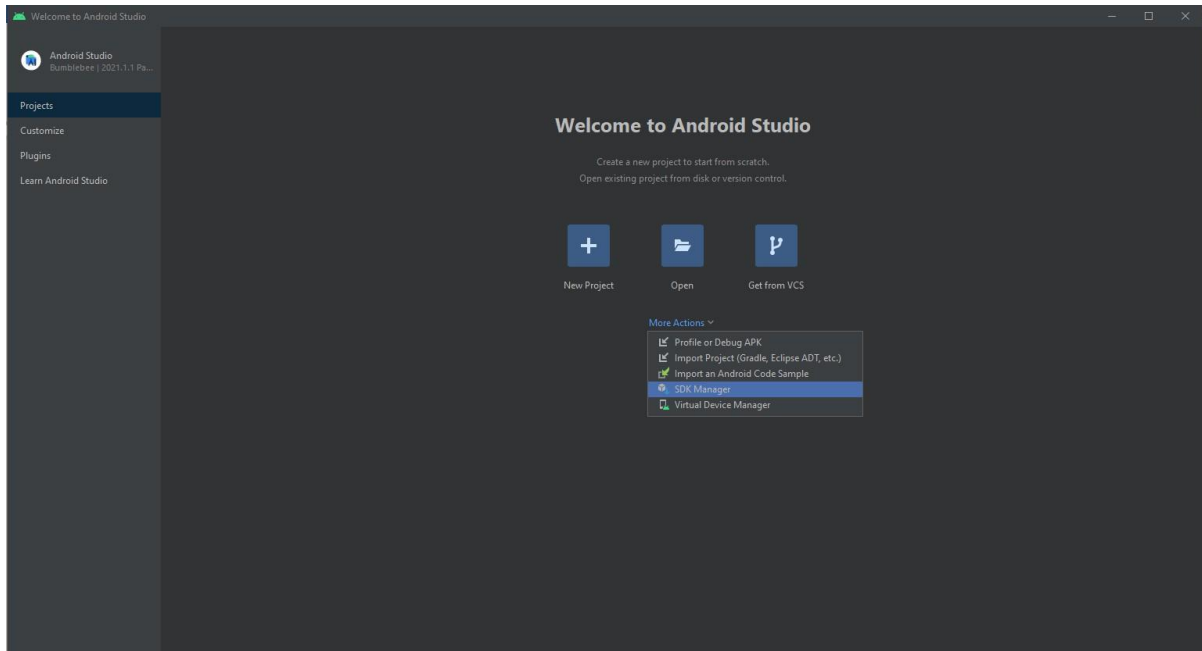
```
C:\Users\lokthy>echo %JAVA_HOME%
C:\Program Files\Java\jdk-21

C:\Users\lokthy>java -version
java version "21" 2023-09-19 LTS
Java(TM) SE Runtime Environment (build 21+35-LTS-2513)
Java HotSpot(TM) 64-Bit Server VM (build 21+35-LTS-2513, mixed mode, sharing)
```

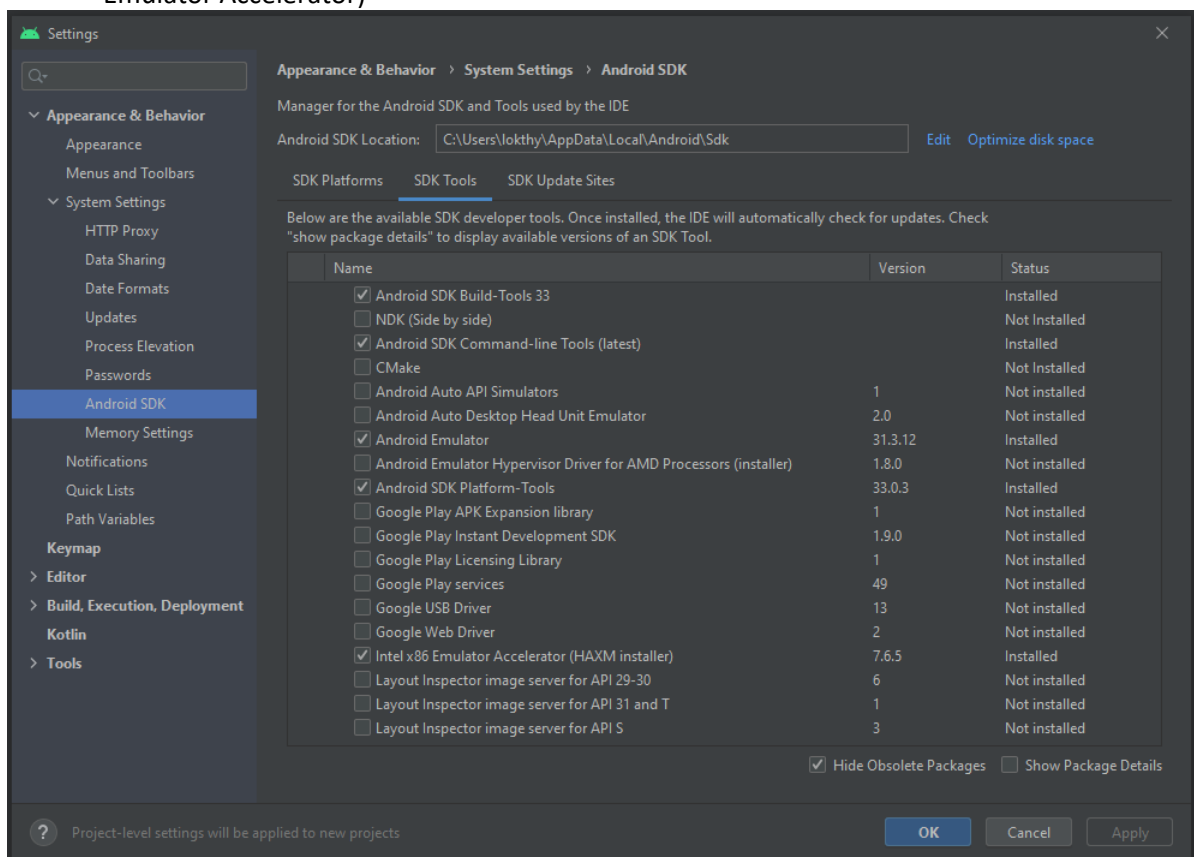
Android Studio installation for Android SDK and Emulator

1. To download the latest version of Android Studio files navigate to below link
<https://developer.android.com/studio#downloads>
2. Download the android studio for WINDOWS and download it.
3. Once download is completed run the exe file and install Android Studio.
4. Open the Android studio and navigate to SDK Manager from the **More Actions** drop down

Appium Windows Installation



5. Click the SDK Tools tab and install the latest one for the ones checked in image (Note: If your processor is AMD then choose Android Emulator Hypervisor driver instead of Intel x86 Emulator Accelerator)

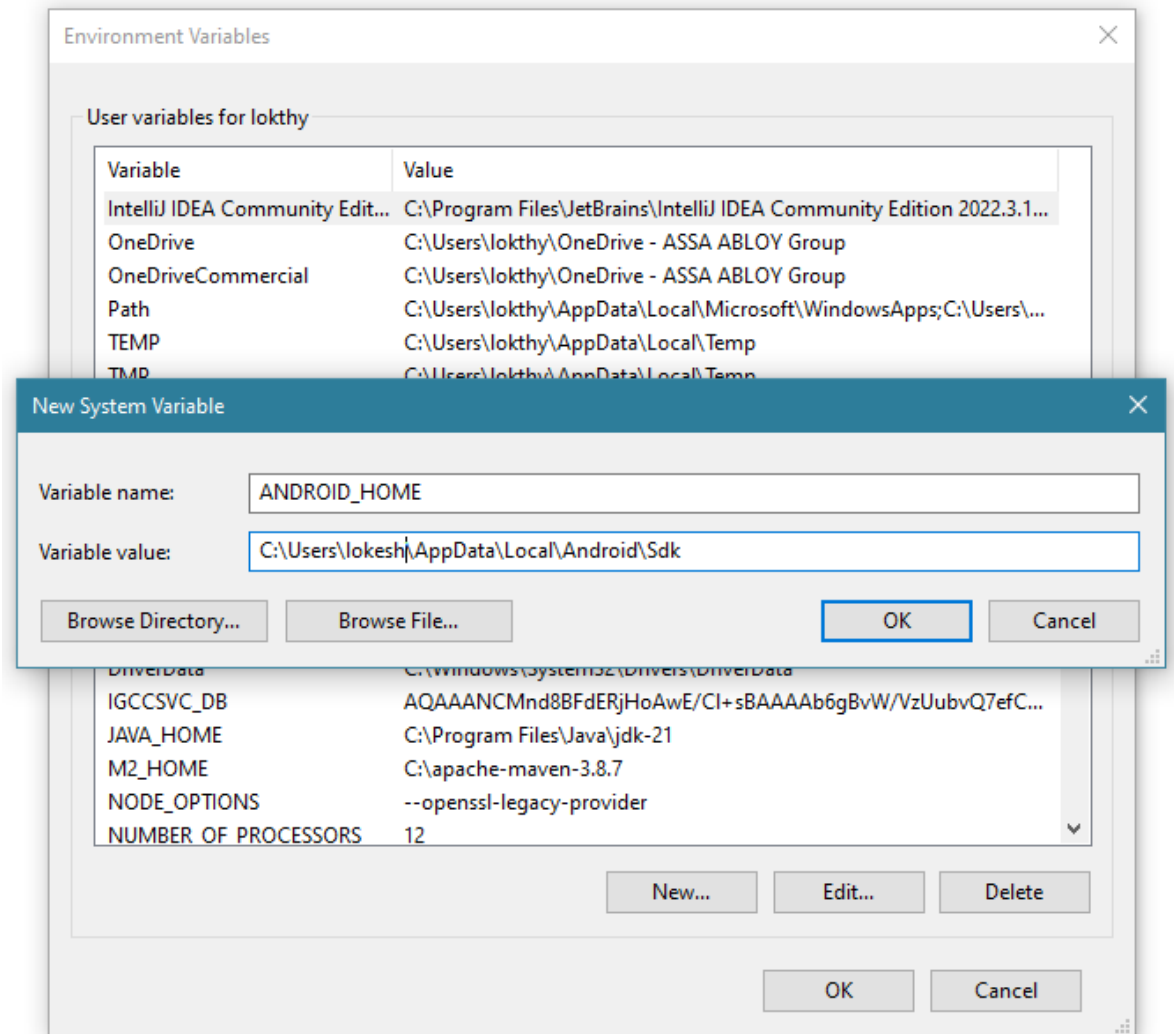


6. SDK will be installed in the given folder of WINDOWS
C:\Users\<UserName>\AppData\Local\Android\Sdk (Update your username in path)
 Note: You can also find the path in the SDK tools tab)
7. Go to Control Panel → System and Security → System → Click on Advanced System Settings
8. Click on the Environment Variables
9. Under System Variables → Click New (Donot use User Variables)

Appium Windows Installation

10. Set **ANDROID_HOME** environment variable as

C:\Users\<UserName>\AppData\Local\Android\Sdk (Update your username in path)



11. Select the **Path** system variable and click the Edit button
12. Add **%ANDROID_HOME%\platform-tools** to the path variable and click OK
13. Save the environment variable screen.
14. Open new cmd prompt and type **echo %ANDROID_HOME%** and verify the path is displayed in cmd prompt.
15. If **ANDROID_HOME** path is shown, then ANDROID_HOME environment variable is set.

```
C:\Users\lokthy>echo %ANDROID_HOME%
C:\Users\lokthy\AppData\Local\Android\Sdk

C:\Users\lokthy>adb --version
Android Debug Bridge version 1.0.41
Version 34.0.4-10411341
Installed as C:\Users\lokthy\AppData\Local\Android\Sdk\platform-tools\adb.exe
Running on Windows 10.0.19044
```




Install NodeJS

1. A stable version of Node JS can be downloaded from its [official website](#).

Downloads

Latest LTS Version: **20.10.0** (includes npm 10.2.3)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS <small>Recommended For Most Users</small>	Current <small>Latest Features</small>	
 Windows Installer <small>node-v20.10.0-x64.msi</small>	 macOS Installer <small>node-v20.10.0.pkg</small>	 Source Code <small>node-v20.10.0.tar.gz</small>

Windows Installer (.msi)	32-bit	64-bit	ARM64
Windows Binary (.zip)	32-bit	64-bit	ARM64
macOS Installer (.pkg)	64-bit / ARM64		
macOS Binary (.tar.gz)	64-bit	ARM64	
Linux Binaries (x64)	64-bit		
Linux Binaries (ARM)	ARMv7	ARMv8	
Source Code	node-v20.10.0.tar.gz		

2. Download the latest stable version of Node JS depending upon your Operating System and Install it.
3. Once the installation is complete, open the terminal and type the command **node -v** and press enter. It should show the latest version of Node, confirming that node has been installed successfully on your local machine.

```
C:\Users\...>node -v
v20.5.1
```

4. Next, type the command **npm -v** it should show the latest version of npm installed on your machine. npm comes bundled with node and should get installed automatically with Node JS.

```
C:\Users\...>npm -v
9.8.0
```

Appium GUI installation (Optional)

1. Navigate to <https://github.com/appium/appium-desktop/releases/latest> for the latest Appium desktop installation executable file.
2. Download the Windows executable file. i.e **Appium-Server-GUI-windows- X.Y.Z.exe (X.Y.Z should be the latest version displayed in page)**
3. Open the downloaded file and wait till installation is completed.
4. Once setup is completed Appium will be launched.

Appium Windows Installation

Appium 2.0 installation

1. With NodeJS installed successfully, we can now install Appium. Open the terminal/command prompt and type the below command

npm install -g appium

```
C:\Users\...>npm install -g appium
npm WARN deprecated typedoc-plugin-resolve-crossmodule-references@0.3.3: Upgrade to typedoc >= 0.24 and remove typedoc-p
lugin-resolve-crossmodule-references from your dependencies

added 4 packages, and changed 479 packages in 43s

57 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New major version of npm available! 9.8.0 -> 10.1.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.1.0
npm notice Run `npm install -g npm@10.1.0` to update!
npm notice
```

2. To verify that the Appium was successfully installed lets check its version by typing the following command in the terminal
appium -v

```
C:\Users\...>appium -v
2.1.3
```

3. We can see that version 2.X.X is displayed in the output. This means we have installed the latest version of Appium i.e. 2.1.3 successfully.

Appium Driver Installation

1. With Appium 2.0, we need to install the drivers separately
2. To lists all the drivers available for download, run the below command in cmd prompt

appium driver list

```
C:\Users\...>appium driver list
✓ Listing available drivers
- uiautomator2 [not installed]
- xcuitest [not installed]
- mac2 [not installed]
- espresso [not installed]
- safari [not installed]
- gecko [not installed]
- chromium [not installed]
```

3. To install *uiautomator2* driver, the following command should be run in cmd prompt
appium driver install uiautomator2

```
C:\Users\...>appium driver install uiautomator2
✓ Installing 'uiautomator2' using NPM install spec 'appium-uiautomator2-driver'
i Driver uiautomator2@2.29.10 successfully installed
- automationName: UiAutomator2
- platformNames: ["Android"]
```

Appium Windows Installation

4. To reverify *uiautomator2* is installed properly run the driver list command again

```
C:\Users\...>appium driver list
✓ Listing available drivers
- uiautomator2@2.29.10 [installed (npm)]
- xcuitest [not installed]
- mac2 [not installed]
- espresso [not installed]
- safari [not installed]
- gecko [not installed]
- chromium [not installed]
```

Installing appium-doctor (optional)

1. To install appium-doctor run the following command in terminal

npm install -g appium-doctor

```
C:\Users\...>npm install -g appium-doctor
npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (https://github.com/visionmedia/debug/issues/797)
npm WARN deprecated authorize-ios@1.2.1: Moved into appium
added 266 packages in 24s
27 packages are looking for funding
```

Appium Inspector installation

1. Navigate to <https://github.com/appium/appium-inspector/releases/latest> for the latest Appium inspector installation executable file.
2. Download the Windows executable file. i.e **Appium-Inspector-windows- X.Y.Z.exe** (**X.Y.Z should be the latest version displayed in page**)
3. Open the downloaded file and wait till installation is completed.
4. Once setup is completed Appium Inspector will be launched.

Appium Windows Installation