

How to install NGS Toolkit

1. Update your **Windows10** build version

a. **Version 2004**

b. <https://support.microsoft.com/de-de/help/4028685/windows-10-get-the-update>

Windows-Spezifikationen

Edition	Windows 10 Pro
Version	2004
Installiert am	20.07.2020
Betriebssystembuild	19041.508
Leistung	Windows Feature Experience Pack 120.2212.31.0

[Product Key ändern oder Windows-Edition aktualisieren](#)

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Note: If you have problems to update your windows version use the update assistant

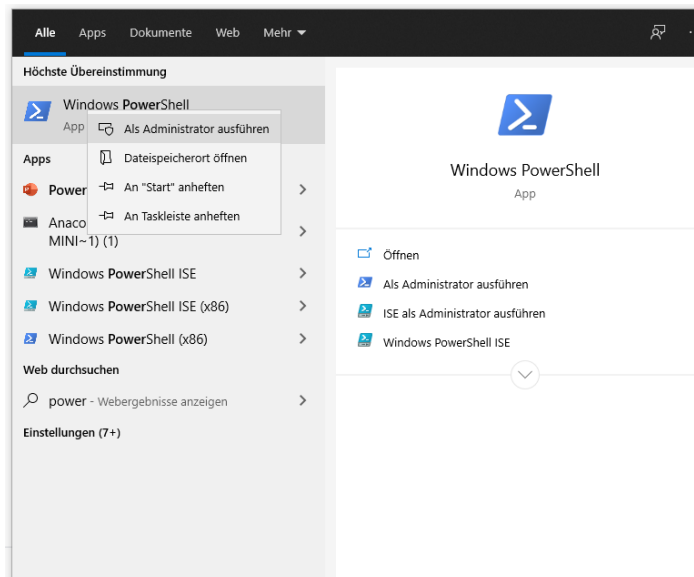
<https://support.microsoft.com/de-de/help/3159635/windows-10-update-assistant>

2. Install **Python 64Version** on your system (make sure that it is the 64bit version not the 32bit version)

3. Update from WSL1 to WSL2

<https://docs.microsoft.com/de-de/windows/wsl/install-win10>

a. Open Powershell as administrator



b. Copy-paste following command line

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

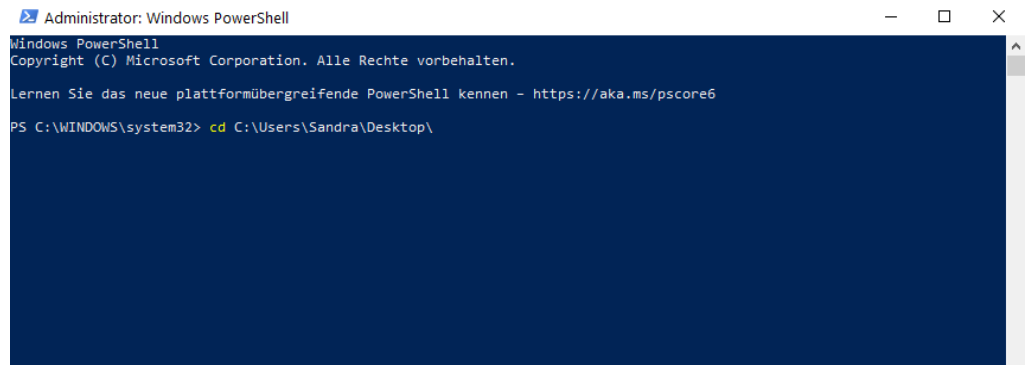
- c. Copy-paste following command line

```
dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart
```

- d. Restart your system

- e. Download Linux-Kernel

- Save the downloaded **msi file** locally on your file system (e.g. Desktop)
- Open Powershell as administrator
- Change the directory where your msi file is located



```
cd C:\Users\Sandra\Desktop\
```

- Copy-paste following command

```
Start-Process .\wsl_update_x64.msi
```

4. Download NGS Toolkit and unpack it

5. Open the folder and double click on

```
install_distribution.py
```

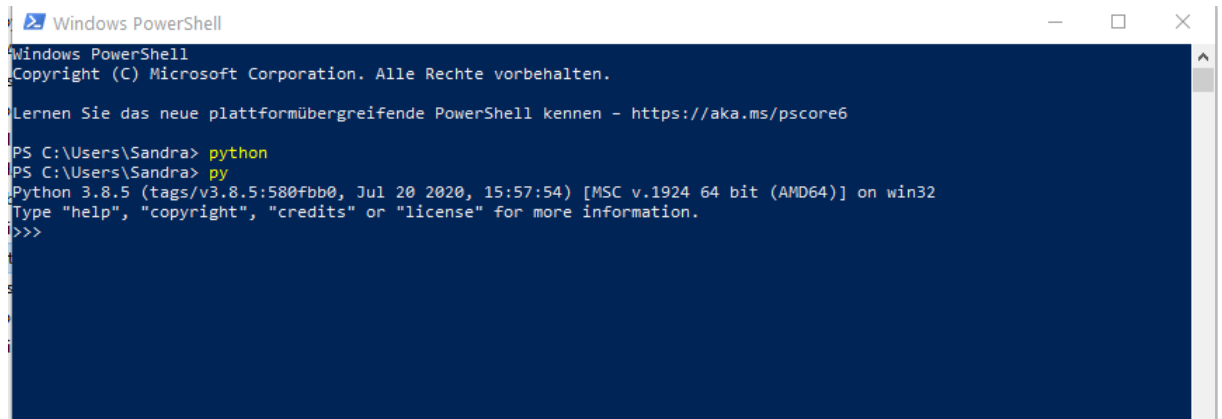
er PC > Desktop > ngstoolkit_3.3 > ngstoolkit_3.3				
Name	Änderungsdatum	Typ	Größe	
pycache	01.10.2020 14:30	Dateiordner		
linAtWin	01.10.2020 14:28	Dateiordner		
ngssdk	01.10.2020 14:30	Dateiordner		
pipeex	01.10.2020 14:30	Dateiordner		
wsl	01.10.2020 14:28	Dateiordner		
CHANGELOG	24.09.2020 15:19	Datei	2 KB	
debug.log	09.10.2020 07:27	Textdokument	13.140 KB	
gui.py	24.09.2020 14:33	PY-Datei	28 KB	
install_distribution.py	22.09.2020 16:10	PY-Datei	3 KB	
ngstoolkitdist.tar	01.10.2020 12:16	TAR-Datei	5.274.550 KB	
pipeline_subprogramms.py	24.09.2020 14:54	PY-Datei	10 KB	
uninstall_distribution.py	02.09.2020 20:44	PY-Datei	1 KB	

Use NGS Toolkit by double click on **gui.py**

You need a folder called fastq where your sequencing files are located!!!

Troubleshooting

1. Make sure the WIN10 version is the correct one
2. Make sure you are not using python 32 bit (open powershell and execute the command 'py')



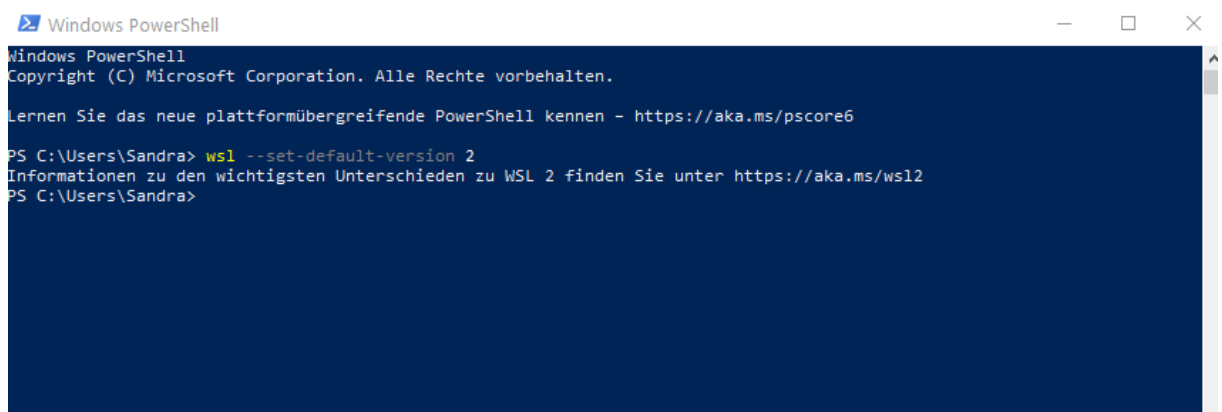
```
Windows PowerShell
Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.

Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6

PS C:\Users\Sandra> python
PS C:\Users\Sandra> py
Python 3.8.5 (tags/v3.8.5:580fbb0, Jul 20 2020, 15:57:54) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

3. Check WSL version

wsl --set-default-version 2



```
Windows PowerShell
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Lernen Sie das neue plattformübergreifende PowerShell kennen - https://aka.ms/pscore6

PS C:\Users\Sandra> wsl --set-default-version 2
Informationen zu den wichtigsten Unterschieden zu WSL 2 finden Sie unter https://aka.ms/wsl2
PS C:\Users\Sandra>
```

4. Restart your system and try it again
5. If you have problems running a study
 - a. Check file path (remove all spaces in the path directory)
 - b. Check if you have enough memory
 - c. Make sure that your files are named according to Illumina requirements (e.g. Sample_S1_L001_R1_001.fastq)