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| --- | --- | --- |
| Auto-Pilot Itential Setup | | |
|  |  |  |
| Local-Windows 11 [ 22h2 ] | | |

# Abstract

This document represents the version of Itential Application Platform (IAP) installation steps in Windows PC using Windows System Linux Support

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# Itential Application Platform Prerequisites

|  |  |
| --- | --- |
| NodeJS | 14.x |
| Erlang | 25.x |
| RabbitMQ | 3.11.x |
| Redis | 5.x |
| Mongodb | 5.x |
| IAP | 2.5 |

Software’s are available under Files section of Developer Environment Setup with name Debian.zip. For any questions, please post it in “Developer Environment Setup” Teams channel.

Key applications required for Itential Application to work are

1. PowerShell
2. Redis
3. RabbitMQ
4. MongoDB
5. Debian
6. VS Code

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Description automatically generated

Download ***debiaac.zip*** from Teams to get install packages for

1. MongoDB
2. Erlang
3. RabbitMQ
4. Redis

# WSL Setup

#### Enabling Windows Subsystem for Linux using PowerShell

* Open **Start**.
* Search for **PowerShell**, right-click the top result, and select the **Run as administrator** option.
* Type the following command to enable the Linux subsystem and press **Enter**:

“ *Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux* ”

A screenshot of a computer

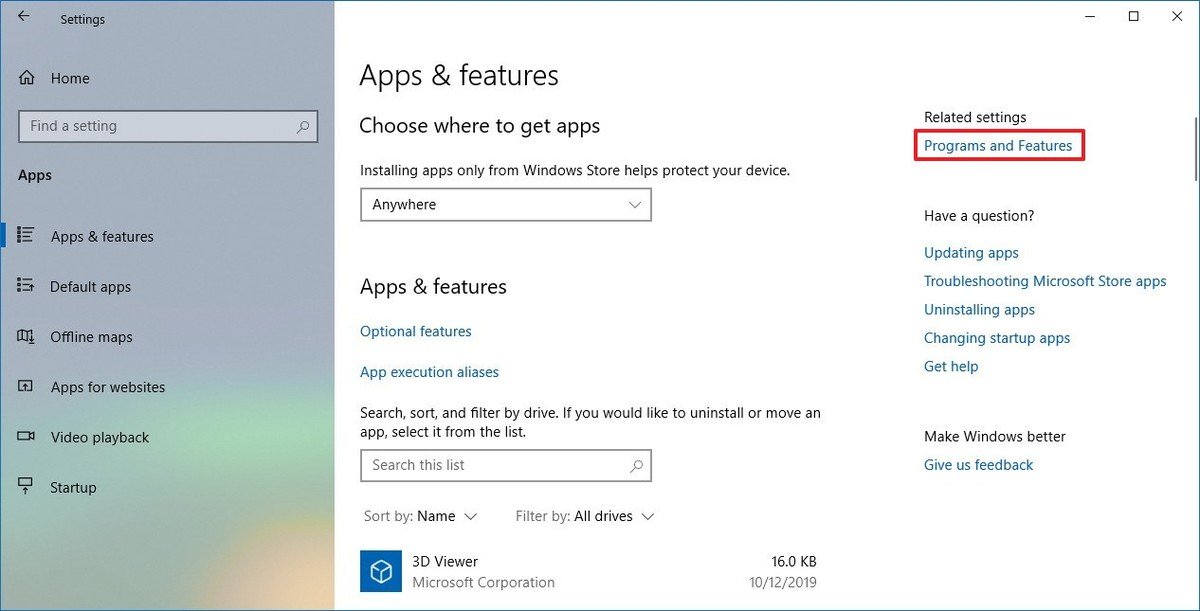
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* Type Y and press Enter to confirm and restart your computer.

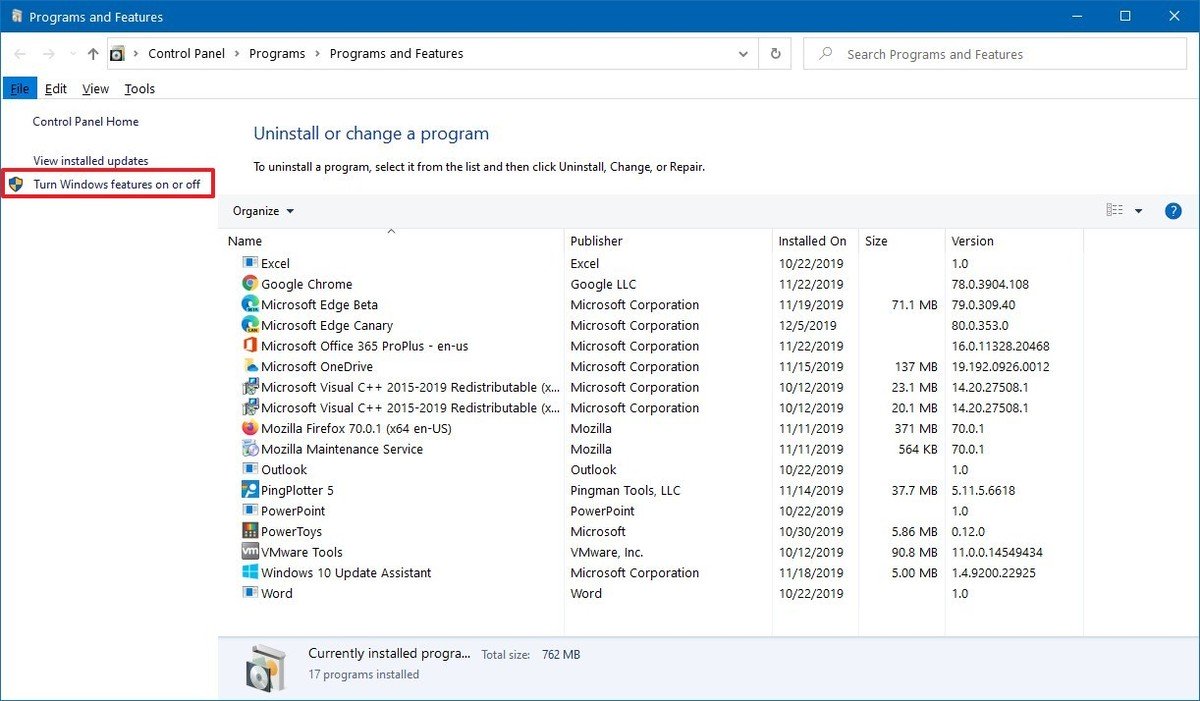
#### Enabling Windows Subsystem for Linux using Settings

To install WSL using Setting on Windows 11, use these steps:

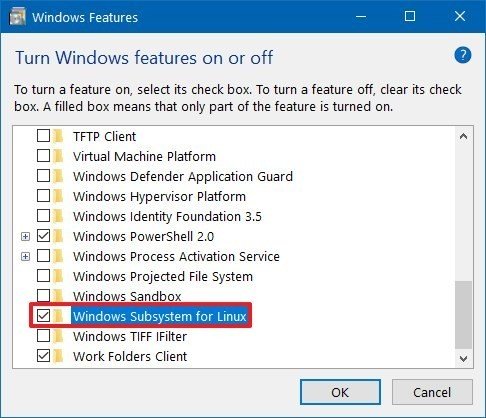
* Open **Settings**.
* Click on **Apps**.
* Under the "Related Settings" section, click the **Programs and Features** option.



* Click the **Turn Windows features on or off** option from the left pane.



* Check the **Windows Subsystem for Linux** option.



* Click the **OK** button.
* Click the **Restart now** button.

Once you complete the steps, the environment will be configured to download and run the distros of Debian on Windows 11.

# Installation of dependency apps

# Redis

* Extract the redis.zip to C:
* Run redis-server.exe file in Redis folder (C:\redis).
* This step complete installation of Redis in Windows PC.

# Erlang

* Install esl-erlang\_25.1~windows\_amd64.exe from debia.zip [Run as Administrator]

# RabbitMQ

* Install rabbitmq-server-3.11.x.exe from debia.zip
* Enable the web interface:
* Start Menu -> RabbitMQ Server -> RabbitMQ command prompt (sbin dir)
* Run the following command to enable the plugin

**rabbitmq-plugins.bat enable rabbitmq\_management**

* Open a cmd window. If you default to the H drive, you will need to take additional steps in order to run rabbit while not on the network. If it defaults to C continue to validating the web interface.
* Open command prompt as administrator
* Change directory to the \Program Files\RabbitMQ Server\rabbitmq\_server-3.5.5\sbin directory
* Run the following commands

SET HOMEDRIVE=C:

rabbitmq-plugins.bat enable rabbitmq\_management

rabbitmq-service.bat stop

rabbitmq-service.bat remove

rabbitmq-service.bat install

rabbitmq-service.bat start

* Login to [**http://localhost:15672/mgmt**](http://localhost:15672/mgmt)
* The default credentials are:  
  Username: **guest**  
  Password: **guest**
* This step completes installation of RabbitMQ in Windows PC

# Mongo DB

* Install exe from debia.zip
* Create folder c:/data/db
* Go to following path in file explorer:

**C:\Program Files\MongoDB\Server\5.0.15\bin**

* And run mongo.exe file to get mongo running. If mongo.exe doesn’t work and the window closes immediately, then use mongod.exe.
* Follow below instructions in Mongo Compass community(Optional):
* Click on ‘Fill in connection fields individually’
  + Hostname: localhost
  + Port: 27017
  + Authentication: None
* Then Click ‘Connect’

# Debian

* Create folder C:\debianOS
* Open PowerShell as administrator and run the below commands:

**cd C:\debianOS**

* Invoke-WebRequest -Uri <https://aka.ms/wsl-debian-gnulinux> -OutFile debian.appx -UseBasicParsing
* Add-AppxPackage debian.appx
* Once installed, go to the Windows Start Menu
* Search for Debian
* Create a username for the Linux distro and press Enter. (user: admin)
* Specify a password for the distro and press Enter.(password: admin)
* Repeat the password and press Enter to confirm.

# Node JS

* Open Debian window and go to home directory using following commands from your home directory:

**cd ~**

**sudo apt update**

**sudo apt install curl**

**curl -sL https://deb.nodesource.com/setup\_12.9.1 -o nodesource\_setup.sh**

**sudo bash nodesource\_setup.sh**

**#the next command is in the comments from running the last command**

**#it should be: sudo apt-get install -y nodejs**

**nodejs -v**

* Make sure the node.js version installed is 10.\* or above.

# Mongo DB

* Install exe from debia.zip
* Create folder c:/data/db
* Go to following path in file explorer:

**C:\Program Files\MongoDB\Server\5.0.15\bin**

* And run mongo.exe file to get mongo running. If mongo.exe doesn’t work and the window closes immediately, then use mongod.exe.
* Follow below instructions in Mongo Compass community(Optional):
* Click on ‘Fill in connection fields individually’
  + Hostname: localhost
  + Port: 27017
  + Authentication: None
* Then Click ‘Connect’

# Mongo DB

* Install exe from debia.zip
* Create folder c:/data/db
* Go to following path in file explorer:

**C:\Program Files\MongoDB\Server\5.0.15\bin**

* And run mongo.exe file to get mongo running. If mongo.exe doesn’t work and the window closes immediately, then use mongod.exe.
* Follow below instructions in Mongo Compass community(Optional):
* Click on ‘Fill in connection fields individually’
  + Hostname: localhost
  + Port: 27017
  + Authentication: None
* Then Click ‘Connect’