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Create a VM using Azure manually

The screenshot displays the Azure portal interface for a virtual machine named 'ankurRG01bVM01'. The left sidebar shows navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Networking, Settings, Availability + scale, Security, Backup + disaster recovery, Operations, Monitoring, Automation, and Help. The main area shows the VM's properties, including its location (East US (Zone 1)), subscription (Free Trial), and various configuration details. The 'Properties' tab is active, showing details like Computer name, Operating system, VM generation, VM architecture, Agent status, Agent version, Hibernation, Host group, and Host. The 'Networking' section shows the Public IP address (172.174.226.137) and the Virtual network/subnet (v-net01/default). The 'Size' section shows the VM size (Standard B1s).

Property	Value
Location	East US (Zone 1)
Subscription	Free Trial
Subscription ID	c590b131-f86b-4e20-9f94-85d11e7504e
Availability zone	1
Tags	Add tags
Public IP address	172.174.226.137
Virtual network/subnet	v-net01/default
DNS name	Not configured
Health state	-
Time created	3/2/2025, 11:00 AM UTC
Computer name	ankurRG01bVM01
Operating system	Windows (Windows 10 Pro)
VM generation	V2
VM architecture	x64
Agent status	Ready
Agent version	2.7.41491.1149
Hibernation	Disabled
Host group	-
Host	-
Public IP address	172.174.226.137 (Network interface ankurg01bvm01936_x1)
Public IP address (IPv6)	-
Private IP address	10.1.0.4
Private IP address (IPv6)	-
Virtual network/subnet	v-net01/default
DNS name	Configure
Size	Standard B1s

Login into the VM using RDP

The screenshot shows a Remote Desktop Protocol (RDP) session connected to the virtual machine. The desktop background is a green bamboo forest. A Windows PowerShell terminal window is open, displaying the following commands and output:

```
Image Version: 10.0.19045.5487
Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\ankur> dism /online /enable-feature /featurename:IIS-ASPNET45 /all

Deployment Image Servicing and Management tool
Version: 10.0.19041.3636

Image Version: 10.0.19045.5487
Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\ankur> dism /online /enable-feature /featurename:IIS-WebSockets /all

Deployment Image Servicing and Management tool
Version: 10.0.19041.3636

Image Version: 10.0.19045.5487
Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\ankur>
```

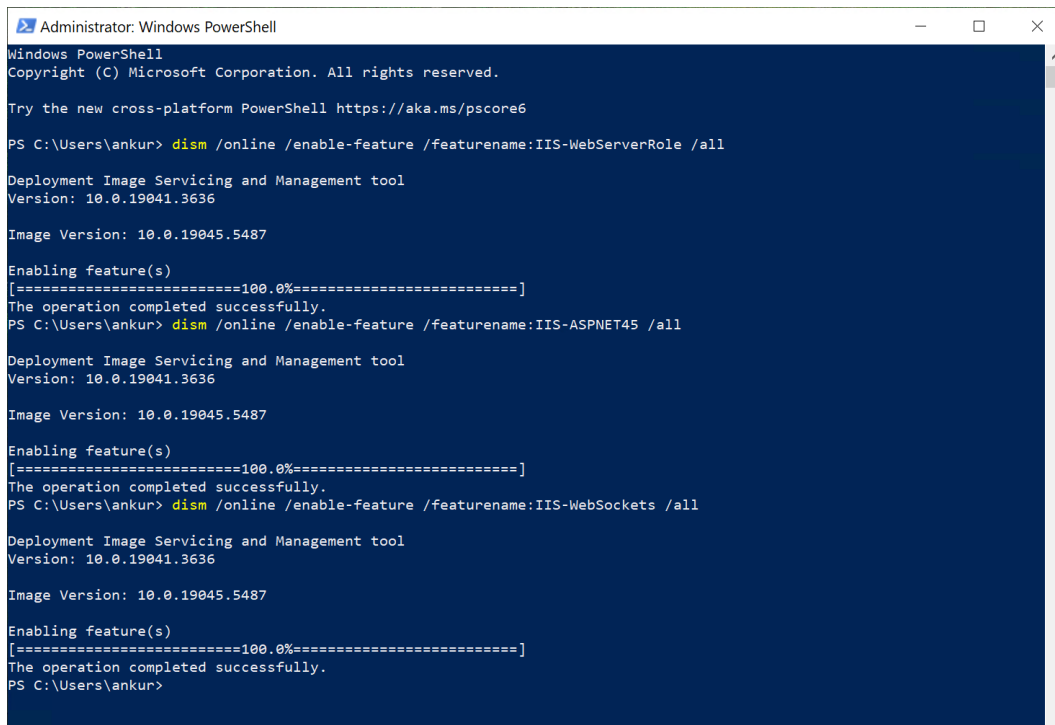
Open PowerShell in Administrator mode

Run the following commands:

```
dism /online /enable-feature /featurename:IIS-WebServerRole /all
```

```
dism /online /enable-feature /featurename:IIS-ASPNET45 /all
```

```
dism /online /enable-feature /featurename:IIS-WebSockets /all
```



```
Administrator: Windows PowerShell
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ankur> dism /online /enable-feature /featurename:IIS-WebServerRole /all

Deployment Image Servicing and Management tool
Version: 10.0.19041.3636

Image Version: 10.0.19045.5487

Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\ankur> dism /online /enable-feature /featurename:IIS-ASPNET45 /all

Deployment Image Servicing and Management tool
Version: 10.0.19041.3636

Image Version: 10.0.19045.5487

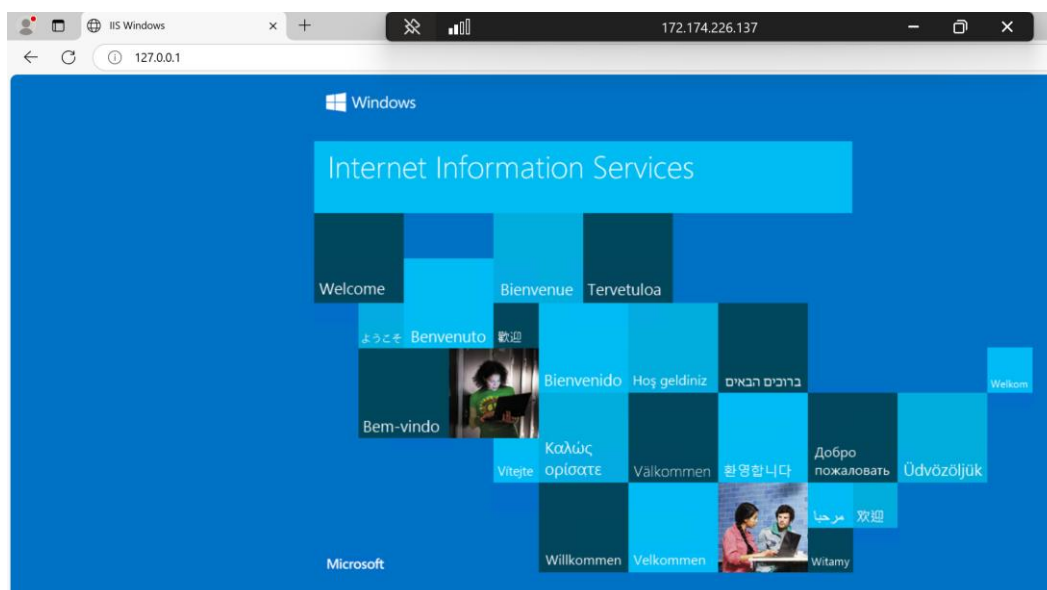
Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\ankur> dism /online /enable-feature /featurename:IIS-WebSockets /all

Deployment Image Servicing and Management tool
Version: 10.0.19041.3636

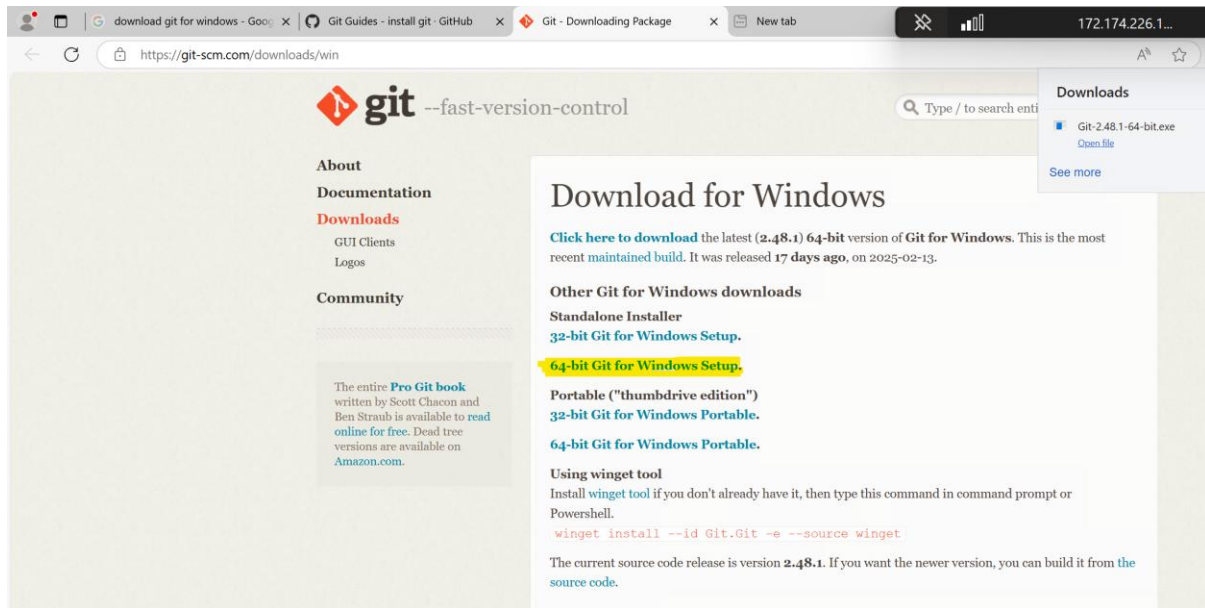
Image Version: 10.0.19045.5487

Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\ankur>
```

IIS Webserver installed successfully



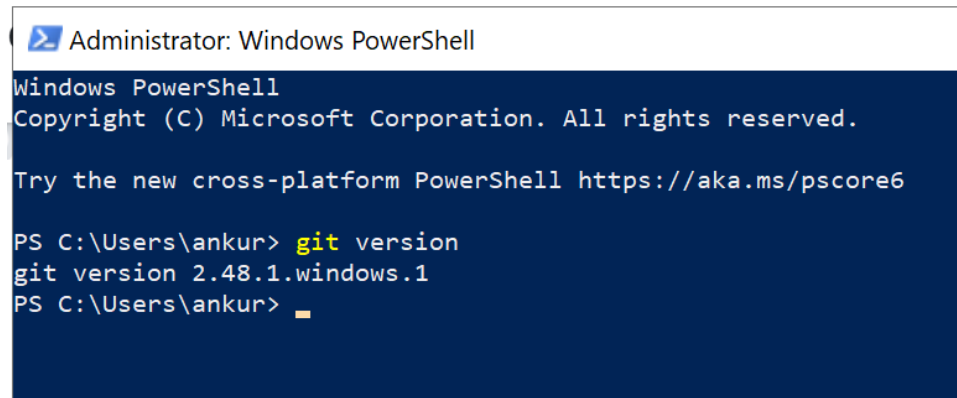
Download and install Git on VM manually



Verify GIT is installed

PS C:\Users\ankur> **git version**

git version 2.48.1.windows.1



Navigate to wwwroot

```
PS C:\Users\ankur> cd..
```

```
PS C:\Users> cd..
```

```
PS C:\> ls
```

```
Directory: C:\
```

Mode	LastWriteTime	Length	Name
d-----	3/2/2025 11:15 AM		inetpub
d-----	3/2/2025 11:07 AM		Packages
d-----	12/7/2019 9:14 AM		PerfLogs
d-r---	3/2/2025 2:03 PM		Program Files
d-r---	1/31/2025 12:57 PM		Program Files (x86)
d-r---	3/2/2025 11:27 AM		Users
d-r---	3/2/2025 11:15 AM		Windows
d-----	3/2/2025 11:06 AM		WindowsAzure

```
PS C:\> cd .\inetpub\wwwroot\
```

```
PS C:\inetpub\wwwroot> ls
```

```
Directory: C:\inetpub\wwwroot
```

Mode	LastWriteTime	Length	Name
d-----	3/2/2025 11:18 AM		aspnet_client
-a----	3/2/2025 11:15 AM	696	iisstart.htm
-a----	3/2/2025 11:15 AM	98757	iisstart.png

```
PS C:\inetpub\wwwroot>
```

Create a Temp folder to download the contents of the website using gitclone command

```
PS C:\> mkdir TempFolder
```

Directory: C:\

Mode	LastWriteTime	Length	Name
d----	3/2/2025 2:55 PM		TempFolder

```
PS C:\> ls
```

Directory: C:\

Mode	LastWriteTime	Length	Name
d----	3/2/2025 11:15 AM		inetpub
d----	3/2/2025 11:07 AM		Packages
d----	12/7/2019 9:14 AM		PerfLogs
d-r--	3/2/2025 2:03 PM		Program Files
d-r--	1/31/2025 12:57 PM		Program Files (x86)
d-----	3/2/2025 2:55 PM		TempFolder
d-r--	3/2/2025 11:27 AM		Users
d-r--	3/2/2025 11:15 AM		Windows
d----	3/2/2025 11:06 AM		WindowsAzure

```
PS C:\> cd .\TempFolder\
```

```
PS C:\TempFolder>
```

Assignment007 - Deploy IIS Webserver and Website using PowerShell CLI

```
Select Administrator: Windows PowerShell

PS C:\inetpub\wwwroot> cd..
PS C:\inetpub> cd..
PS C:\> ls

    Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----          3/2/2025  11:15 AM                inetpub
d-----          3/2/2025  11:07 AM                Packages
d-----         12/7/2019   9:14 AM                PerfLogs
d-r-----        3/2/2025   2:03 PM            Program Files
d-r-----        1/31/2025  12:57 PM    Program Files (x86)
d-r-----        3/2/2025  11:27 AM                Users
d-r-----        3/2/2025  11:15 AM                Windows
d-----          3/2/2025  11:06 AM            WindowsAzure

PS C:\> mkdir TempFolder

    Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----          3/2/2025   2:55 PM            TempFolder

PS C:\> ls

    Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----          3/2/2025  11:15 AM                inetpub
d-----          3/2/2025  11:07 AM                Packages
d-----         12/7/2019   9:14 AM                PerfLogs
d-r-----        3/2/2025   2:03 PM            Program Files
d-r-----        1/31/2025  12:57 PM    Program Files (x86)
d-----          3/2/2025   2:55 PM            TempFolder
d-r-----        3/2/2025  11:27 AM                Users
d-r-----        3/2/2025  11:15 AM                Windows
d-----          3/2/2025  11:06 AM            WindowsAzure

PS C:\> cd .\TempFolder\
PS C:\TempFolder> git clone https://github.com/devopsinsiders/StreamFlix.git
```

Run gitclone command to download the website

```
PS C:\TempFolder> git clone https://github.com/devopsinsiders/StreamFlix.git
```

Cloning into 'StreamFlix'...

remote: Enumerating objects: 137, done.

remote: Counting objects: 100% (137/137), done.

remote: Compressing objects: 100% (117/117), done.

remote: Total 137 (delta 8), reused 133 (delta 7), pack-reused 0 (from 0)

Receiving objects: 100% (137/137), 7.95 MiB | 35.09 MiB/s, done.

Resolving deltas: 100% (8/8), done.

```
PS C:\TempFolder> ls
```

Directory: C:\TempFolder

Mode	LastWriteTime	Length	Name
d----	3/2/2025 2:55 PM		StreamFlix


```
PS C:\TempFolder> cd .\StreamFlix\
```

```
PS C:\TempFolder\StreamFlix> ls
```

Directory: C:\TempFolder\StreamFlix

Mode	LastWriteTime	Length	Name
d----	3/2/2025 2:55 PM		assets
-a----	3/2/2025 2:55 PM	1330	avatar.png
-a----	3/2/2025 2:55 PM	15406	favicon.ico
-a----	3/2/2025 2:55 PM	816	index.html
-a----	3/2/2025 2:55 PM	9707	logo192.png
-a----	3/2/2025 2:55 PM	37636	logo512.png
-a----	3/2/2025 2:55 PM	517	manifest.json
-a----	3/2/2025 2:55 PM	70	robots.txt

```
PS C:\TempFolder\StreamFlix>
```


 Select Administrator: Windows PowerShell

```
PS C:\TempFolder> git clone https://github.com/devopsinsiders/StreamFlix.git
Cloning into 'StreamFlix'...
remote: Enumerating objects: 137, done.
remote: Counting objects: 100% (137/137), done.
remote: Compressing objects: 100% (117/117), done.
remote: Total 137 (delta 8), reused 133 (delta 7), pack-reused 0 (from 0)
Receiving objects: 100% (137/137), 7.95 MiB | 35.09 MiB/s, done.
Resolving deltas: 100% (8/8), done.
PS C:\TempFolder> ls
```

Directory: C:\TempFolder

Mode	LastWriteTime	Length	Name
d----	3/2/2025 2:55 PM		StreamFlix

```
PS C:\TempFolder> cd .\StreamFlix\
PS C:\TempFolder\StreamFlix> ls
```

Directory: C:\TempFolder\StreamFlix

Mode	LastWriteTime	Length	Name
d----	3/2/2025 2:55 PM		assets
-a----	3/2/2025 2:55 PM	1330	avatar.png
-a----	3/2/2025 2:55 PM	15406	favicon.ico
-a----	3/2/2025 2:55 PM	816	index.html
-a----	3/2/2025 2:55 PM	9707	logo192.png
-a----	3/2/2025 2:55 PM	37636	logo512.png
-a----	3/2/2025 2:55 PM	517	manifest.json
-a----	3/2/2025 2:55 PM	70	robots.txt

```
PS C:\TempFolder\StreamFlix> █
```

Copy the contents of StreamFlix folder to C:\inetpub\wwwroot

```
PS C:\TempFolder> Copy-Item -Path "C:\TempFolder\StreamFlix\*" -Destination "C:\inetpub\wwwroot\" -Recurse
```

```
PS C:\TempFolder>
```

Check contents in C:\inetpub\wwwroot folder

```
Administrator: Windows PowerShell
PS C:\TempFolder> Copy-Item -Path "C:\TempFolder\StreamFlix\*" -Destination "C:\inetpub\wwwroot\" -Recurse
PS C:\TempFolder> cd..
PS C:\> cd inetpub\wwwroot
PS C:\inetpub\wwwroot> ls

Directory: C:\inetpub\wwwroot

Mode                LastWriteTime         Length Name
----                -
d-----          3/2/2025   2:47 PM             archive
d-----          3/2/2025   3:08 PM             assets
-a-----          3/2/2025   2:55 PM           1330 avatar.png
-a-----          3/2/2025   2:55 PM          15406 favicon.ico
-a-----          3/2/2025   2:55 PM            816 index.html
-a-----          3/2/2025   2:55 PM           9707 logo192.png
-a-----          3/2/2025   2:55 PM          37636 logo512.png
-a-----          3/2/2025   2:55 PM            517 manifest.json
-a-----          3/2/2025   2:55 PM             70 robots.txt

PS C:\inetpub\wwwroot>
```

Run the application on Web Browser

