

SYSTEM AND NETWORK

ADMINISTRATION

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1. Task#1(IIS Backup and Restore):

1.1. Creating Backup in Source Server:

- Initially we access the directory to inetsrv which is the main directory for IIS.

```
C:\Windows\System32>cd inetsrv
```

- We then list the recent backups.

```
C:\Windows\System32\inetsrv>appcmd list backup
BACKUP "CFGHISTORY_0000000008"
BACKUP "CFGHISTORY_0000000009"
BACKUP "CFGHISTORY_0000000010"
BACKUP "CFGHISTORY_0000000011"
BACKUP "CFGHISTORY_0000000012"
BACKUP "CFGHISTORY_0000000013"
BACKUP "CFGHISTORY_0000000014"
BACKUP "CFGHISTORY_0000000015"
BACKUP "CFGHISTORY_0000000016"
BACKUP "CFGHISTORY_0000000017"
```

- We add our backup as “IIS Backup”

```
C:\Windows\System32\inetsrv>appcmd add backup "IIS backup"
BACKUP object "IIS backup" added
```

- Listing our backups we can see that backup has been added to list.

```
C:\Windows\System32\inetsrv>appcmd list backup
BACKUP "IIS backup"
BACKUP "CFGHISTORY_0000000008"
BACKUP "CFGHISTORY_0000000009"
BACKUP "CFGHISTORY_0000000010"
BACKUP "CFGHISTORY_0000000011"
BACKUP "CFGHISTORY_0000000012"
BACKUP "CFGHISTORY_0000000013"
BACKUP "CFGHISTORY_0000000014"
BACKUP "CFGHISTORY_0000000015"
BACKUP "CFGHISTORY_0000000016"
BACKUP "CFGHISTORY_0000000017"
```

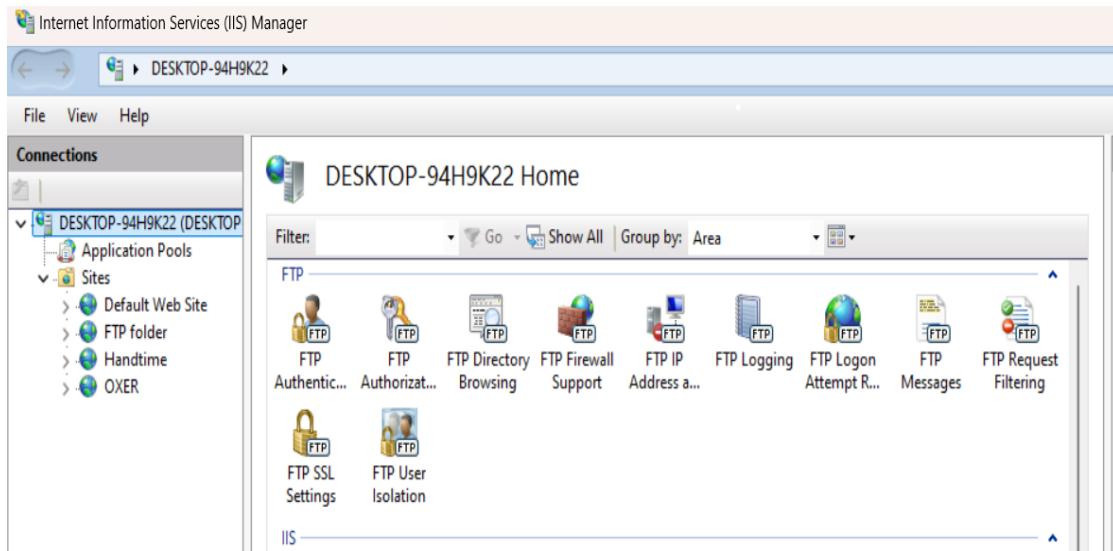
- Using the command “appcmd restore backup” to restore any backup i.e., “IIS backup.”

```
C:\Windows\System32\inetsrv>appcmd restore backup "IIS backup"
Restored configuration from backup "IIS backup"
```

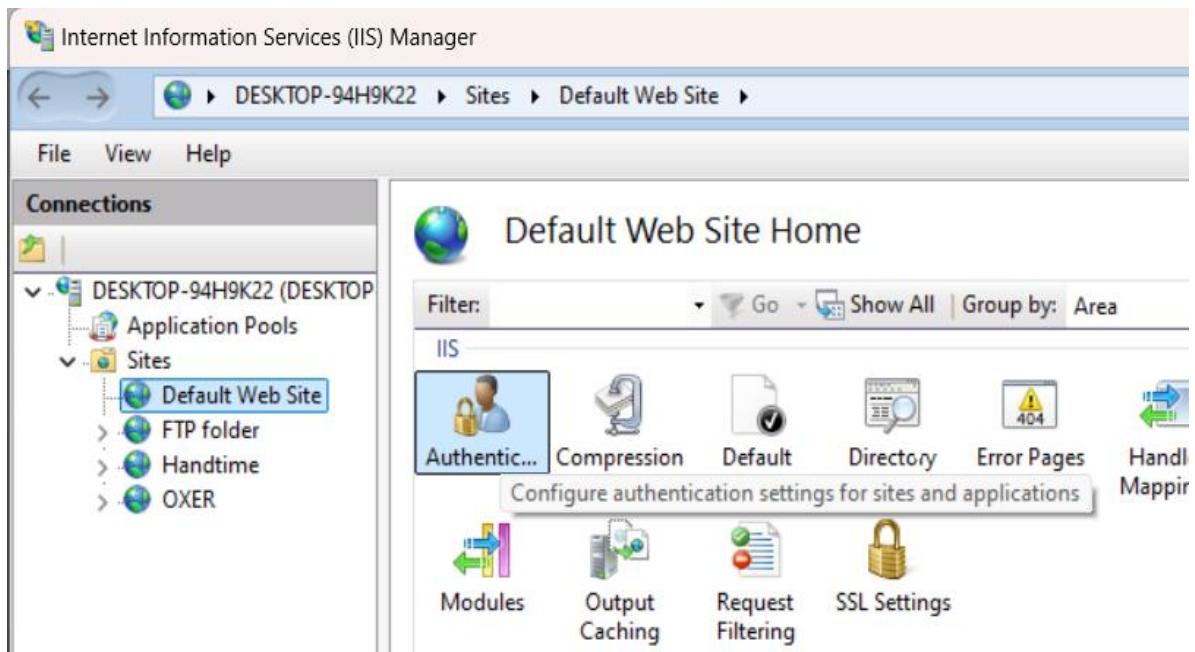
2. Task#2(Securing an IIS site):

2.1 Securing an IIS site on Windows 11

- Initially we open Internet Information Services (IIS) manager.



- Opening configuring interface for IIS manager's, Default Web site.



- Opening authentication interface for IIS manager's, Default Web site.

The screenshot shows the IIS Manager interface. The left pane displays a tree view of the server configuration under 'DESKTOP-94H9K22'. The 'Sites' node is expanded, showing 'Default Web Site' and other sites like 'FTP folder', 'Handtime', and 'OXER'. The right pane is titled 'Authentication' and lists three authentication methods: 'Anonymous Authentication', 'ASP.NET Impersonation', and 'Windows Authentication'. The 'Windows Authentication' row shows 'Status' as 'Disabled' and 'Response Type' as 'HTTP 401 Challenge'. A toolbar at the top includes back, forward, search, and navigation buttons.

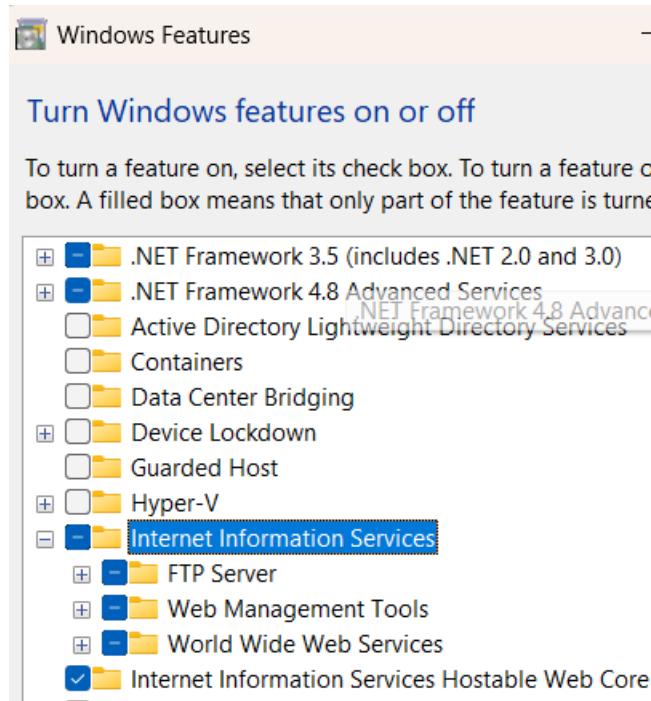
Name	Status	Response Type
Anonymous Authentication	Enabled	
ASP.NET Impersonation	Disabled	
Windows Authentication	Disabled	HTTP 401 Challenge

2.2 How to install Windows authentication option IIS manager on Windows 11

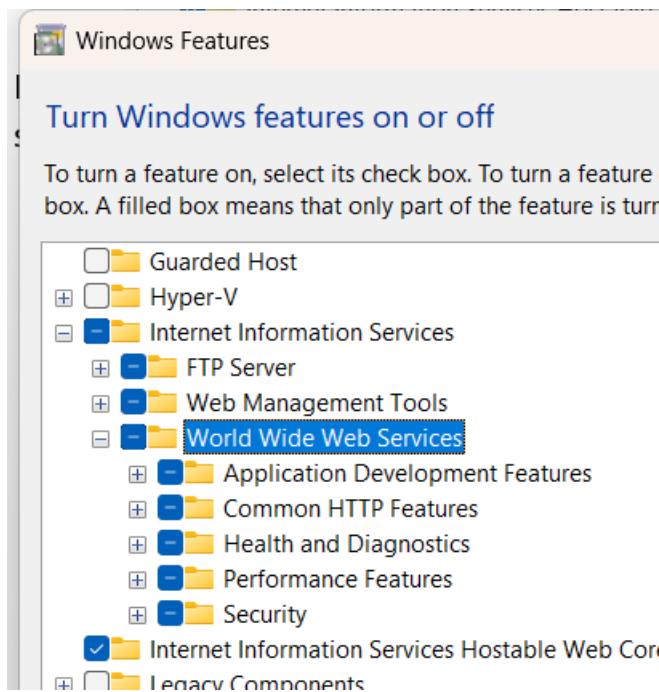
- Open Control panel browse to programs and click Turn windows features on or off.

The screenshot shows the Windows Control Panel. The left sidebar lists categories: Control Panel Home, System and Security, Network and Internet, Hardware and Sound, **Programs**, and User Accounts. The 'Programs' category is selected. The main area is titled 'Programs and Features' and includes links for 'Uninstall a program', 'Turn Windows features on or off', 'View installed apps', 'Run programs made for previous versions of Windows', and 'How to install a program'. Below this is a section titled 'Default Programs' with a link to 'Change default settings for media or devices'.

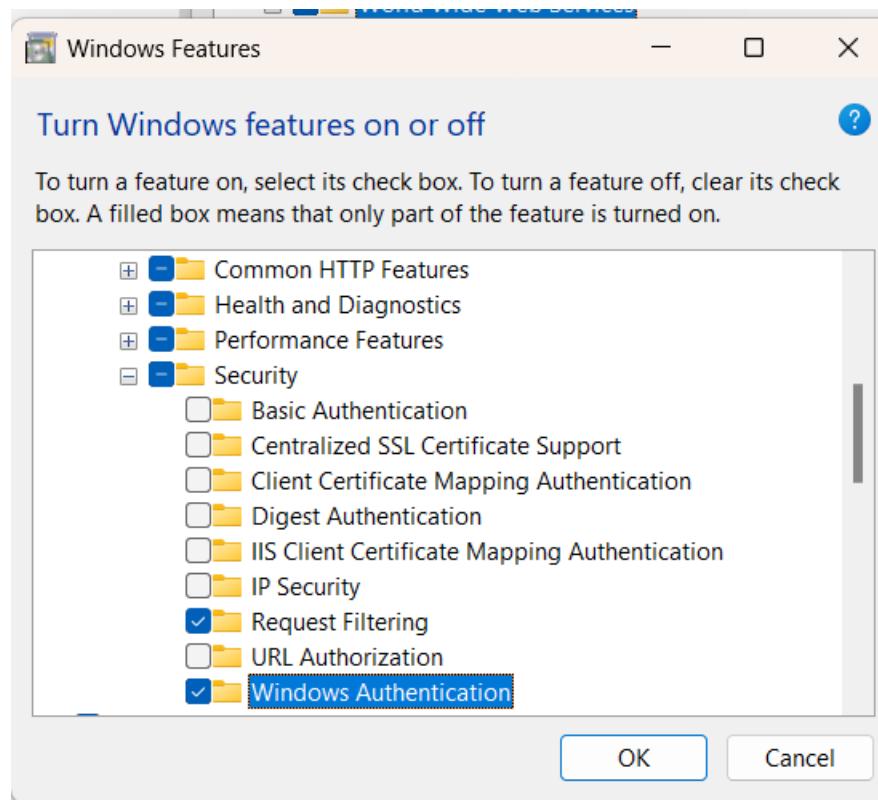
- In the Windows Features panel, open sub folders for IIS



- In sub folders for IIS, select World wide web services and open its subfolders



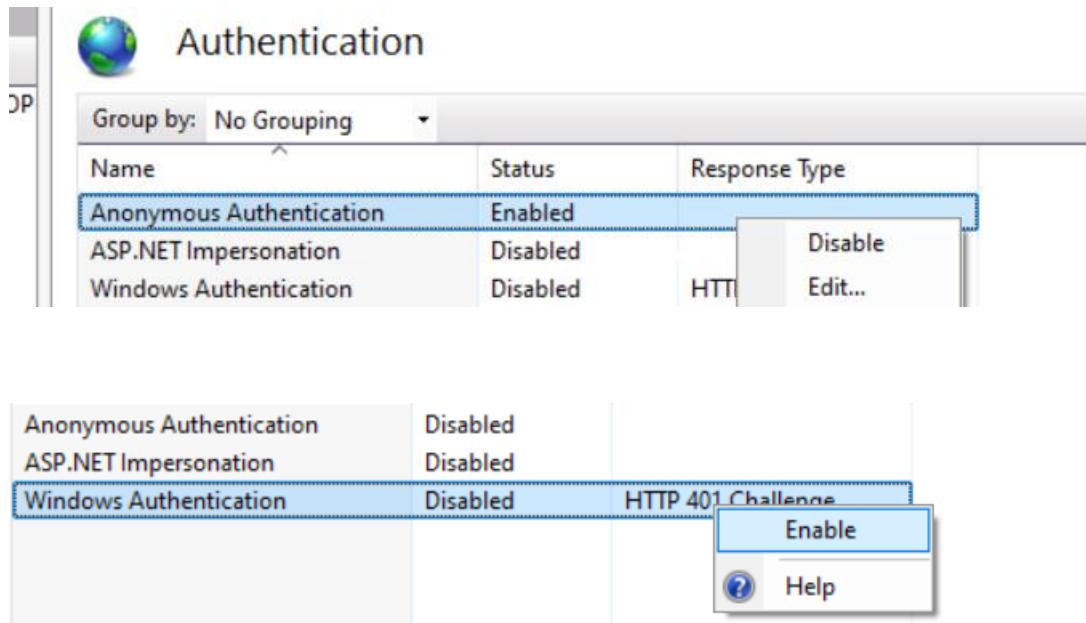
- Now select Security and open its subfolders and find the option Windows Authentication. Click Ok to start the installation.



- After the installation following will be the authentication interface for IIS manager's, Default Web site.

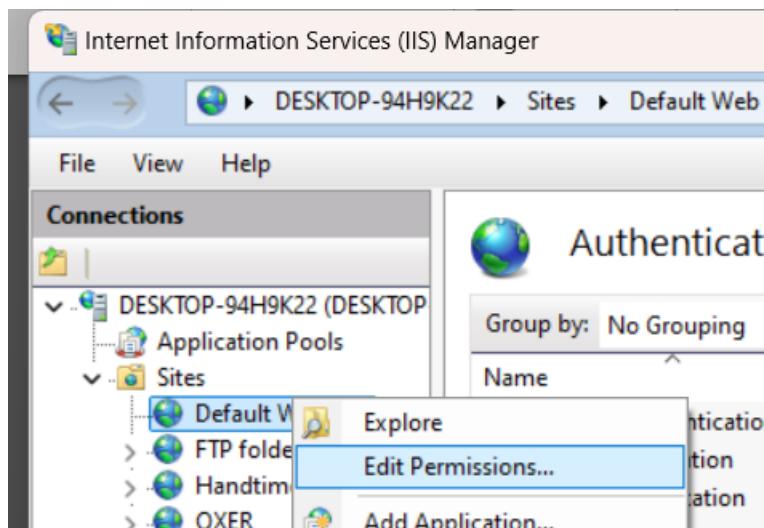
Name	Status	Response Type
Anonymous Authentication	Enabled	
ASP.NET Impersonation	Disabled	
Windows Authentication	Disabled	HTTP 401 Challenge

- Now Disable Anonymous Authentication and Enable Windows Authentication by simply right-clicking and selecting Disable/Enable.

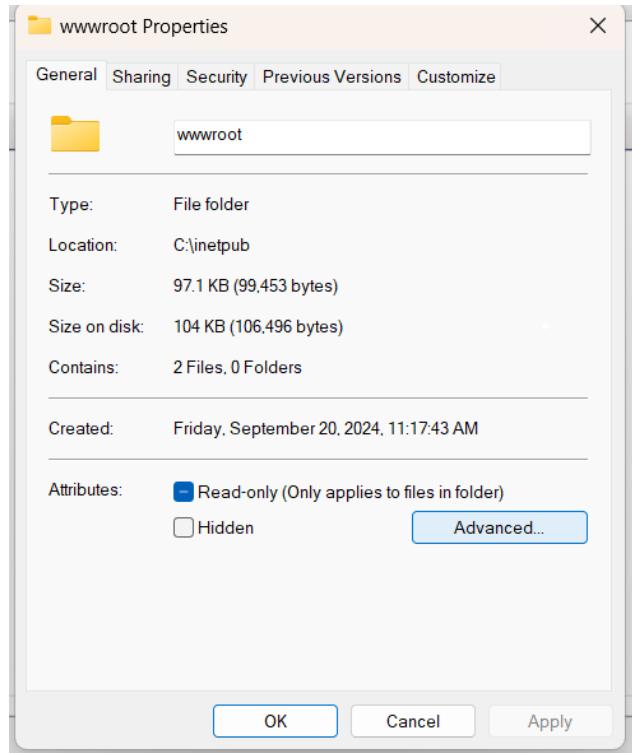


2.3 Reconfiguring Permissions for the Default Web Site

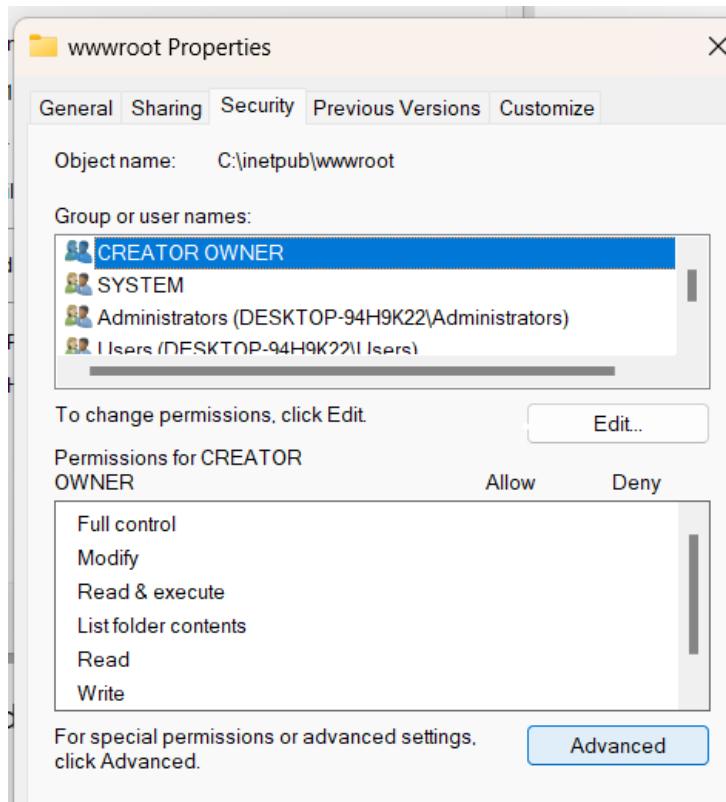
- To reconfigure permissions, select Default Web Site right-click, and select Edit Permissions option



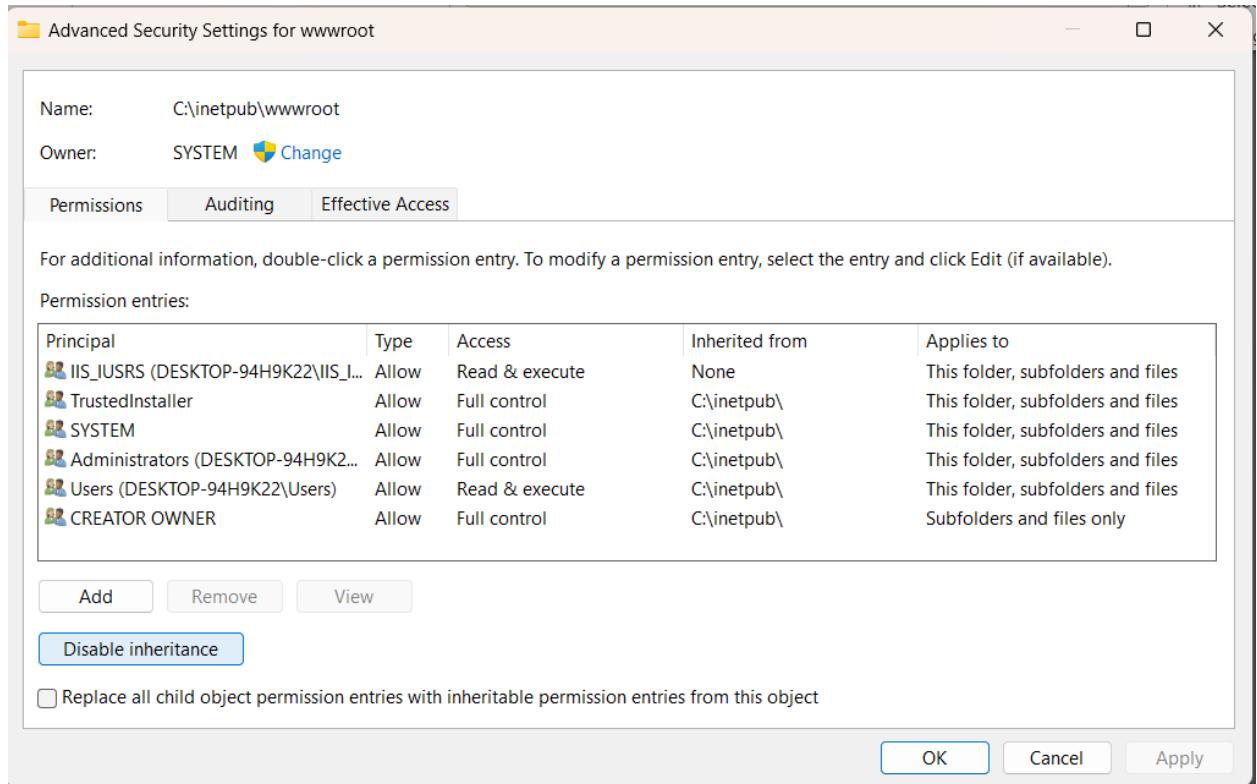
- The following window will appear, go to the Security tab.



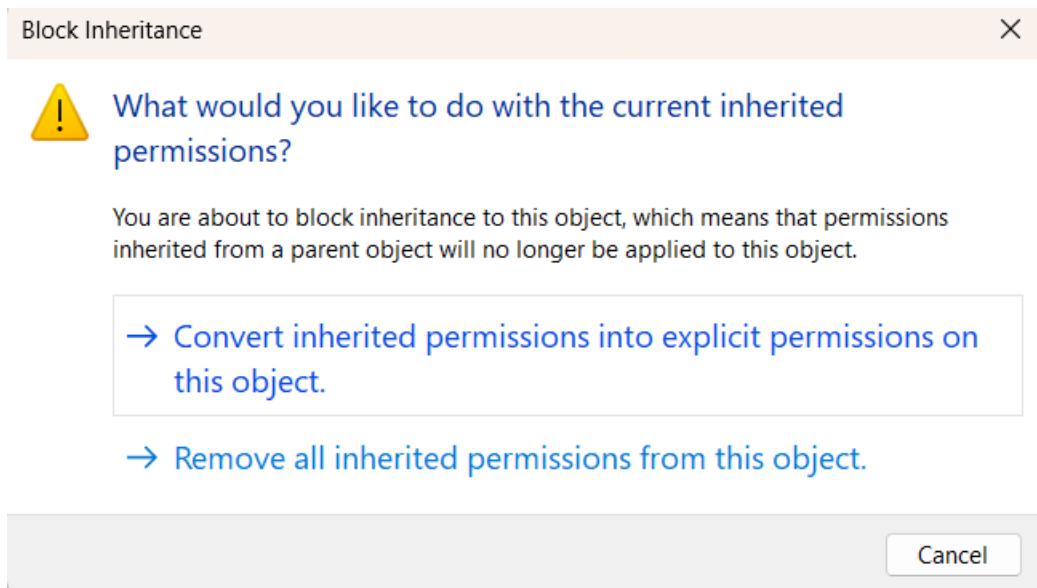
- In the Security tab, click Advanced.



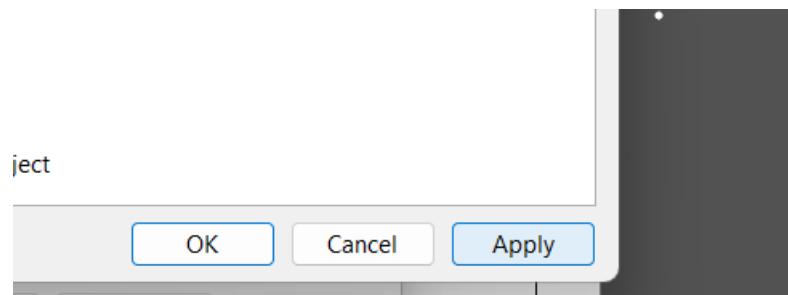
- In the Advanced Security Settings window, click Disable inheritance.



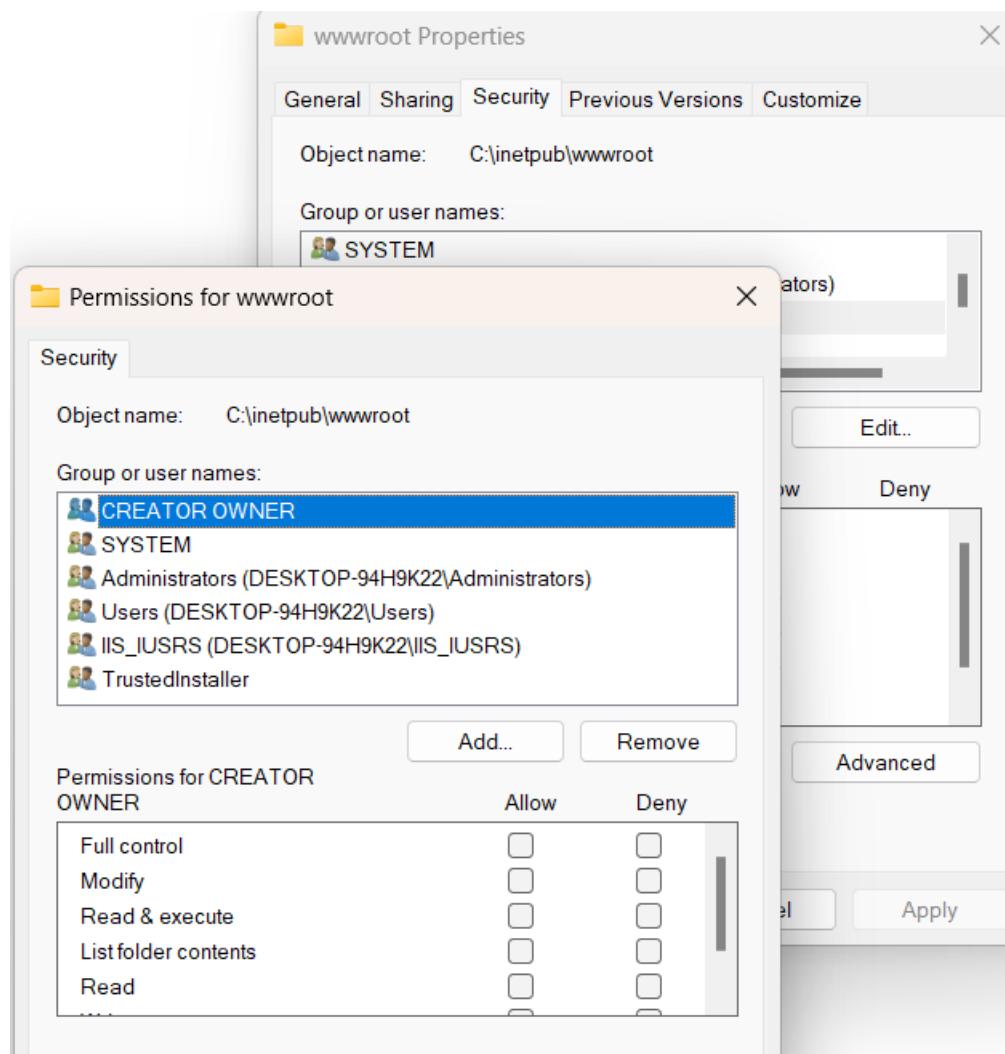
- When prompted, choose Convert inherited permissions into explicit permissions on this object.



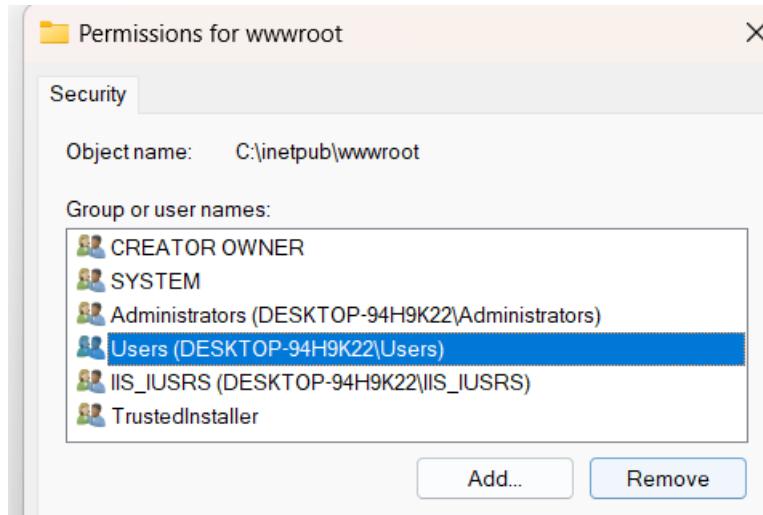
- Click Apply to apply the permission changes. Then Click OK to close the Advanced Security Settings window.



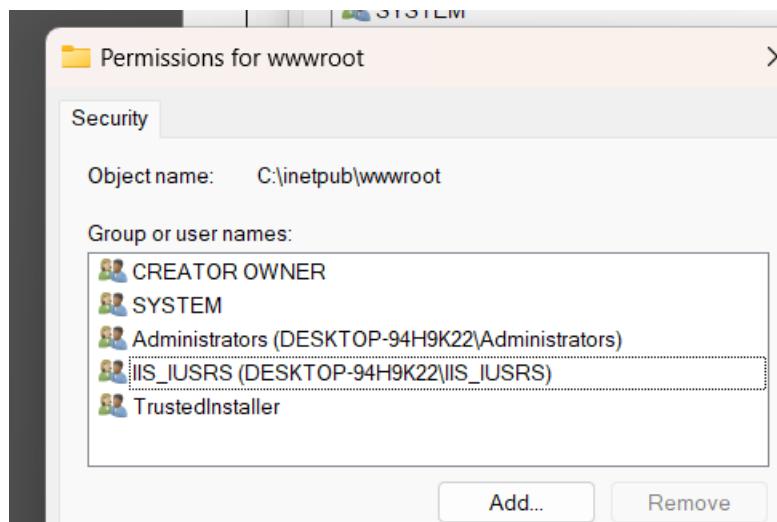
- Back on the Security tab window, Click Edit a new window will appear to change permission for different users.



- Select the Group or username you want to remove/add, or change permissions

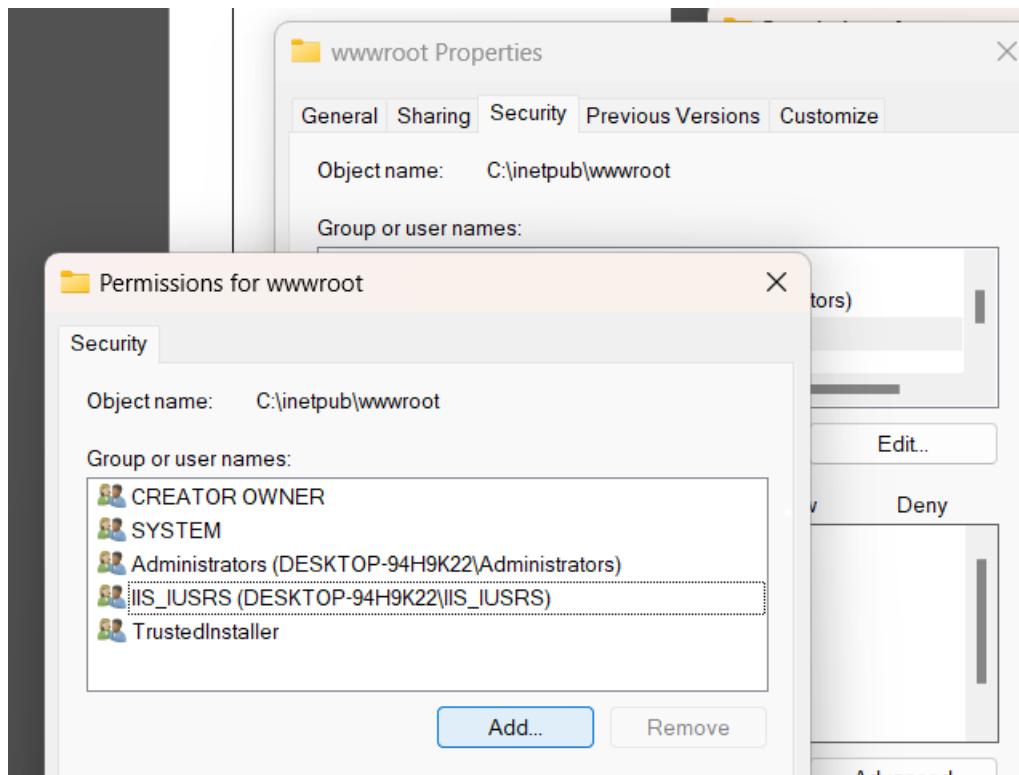


- After removing Users

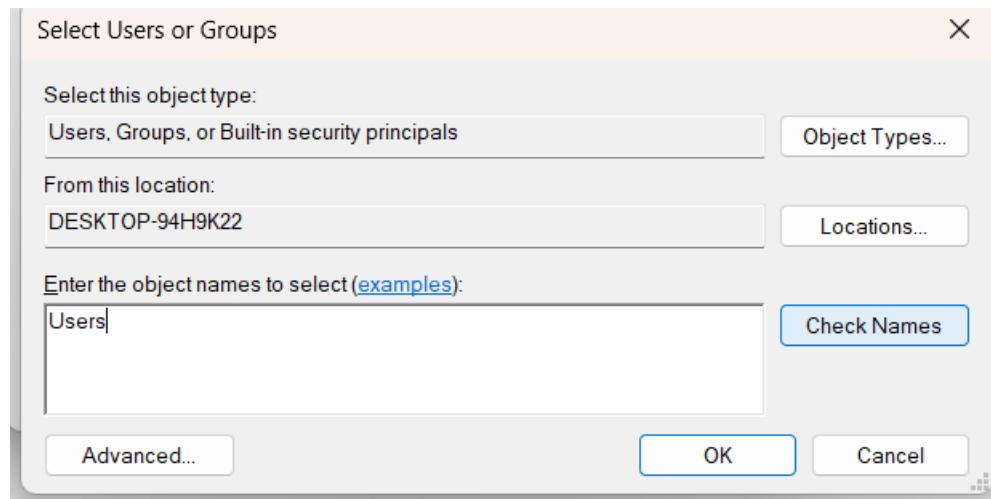


2.4 Configuring Access for Specific Users or Groups

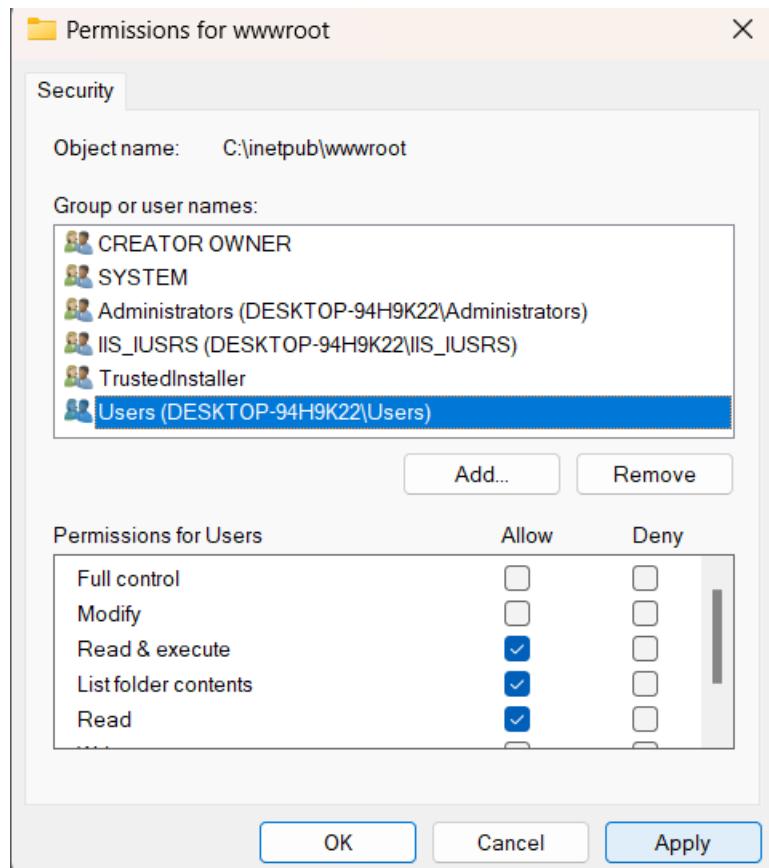
- In the Security tab, Click Edit and then Add.



- When prompted enter a name or group, Click Check Names and then Ok.



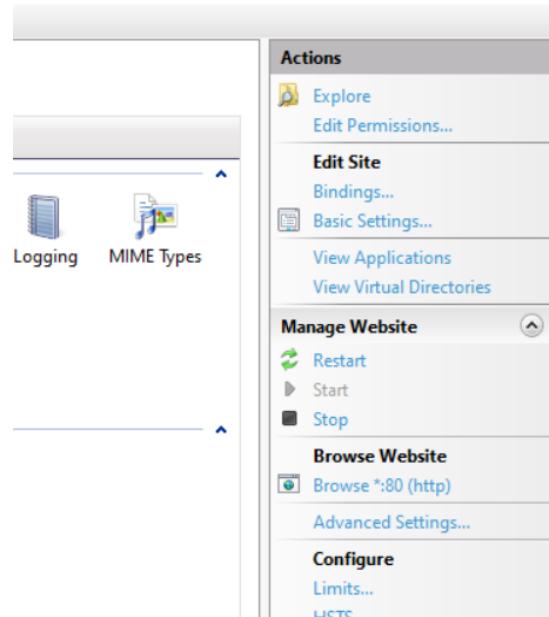
- After which the user/group will be added to the Groups or user names. Their permission can also be change from there.



- First click Apply and then Ok to finalize any changes.

2.5 Testing the site

- Open the IIS manager, open configurational interface for Default Web Site, from the menu on the right click the link below the option “Browse Website”.



- The website will open in the default browser.

