

Sunward Portal Management System

DOCUMENT INFORMATION

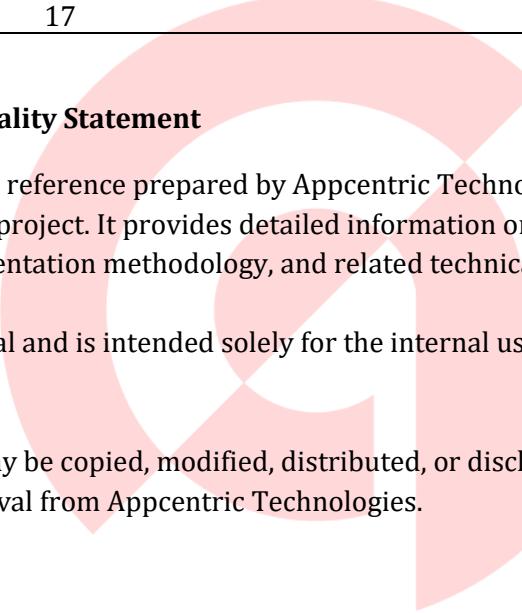
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Client	Sunward
Project Name	Sunward Portal Management System
Prepared by	Arun
Module Name	IIS Deployment & Publish
Pages	17

Disclaimer and Confidentiality Statement

This document is a technical reference prepared by Appcentric Technologies for the Sunward Portal Management System project. It provides detailed information on the system architecture, technical approach, implementation methodology, and related technical specifications.

This document is confidential and is intended solely for the internal use of the authorized technical team of Sunward.

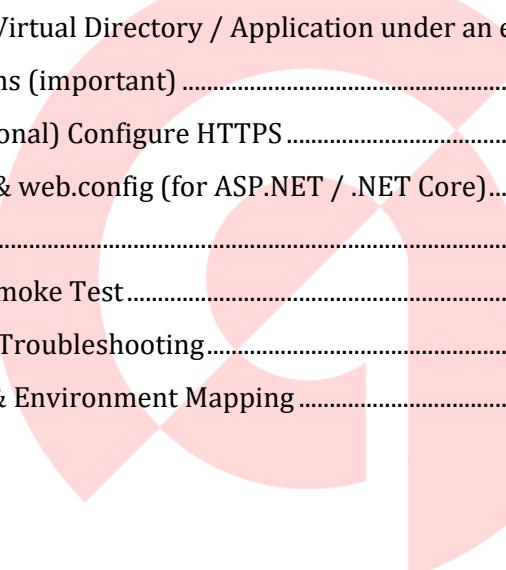
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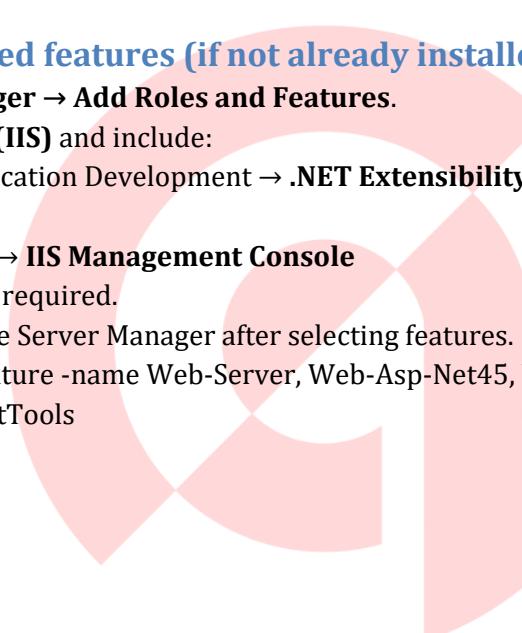
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1. Preliminaries (what you need)

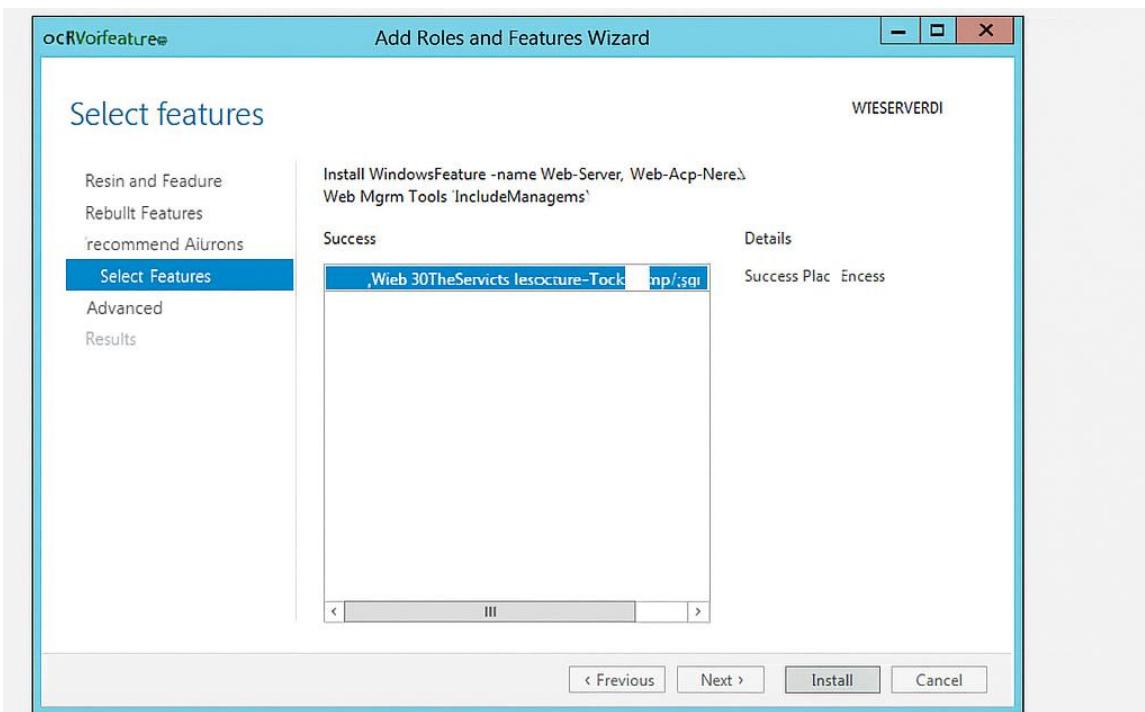
1. A Windows server (Windows Server 2016/2019/2022) with IIS installed OR access to an IIS server.
2. Administrator access on server.
3. Build/publish output of your web app (for ASP.NET Core publish folder or .NET Framework compiled site). Typical output folder: C:\Temp\ Publish\SunwardPortal.
4. A DNS entry pointing portal.example.com → server IP (for production or test).
5. SSL certificate if using HTTPS.

2. Install IIS & required features (if not already installed)

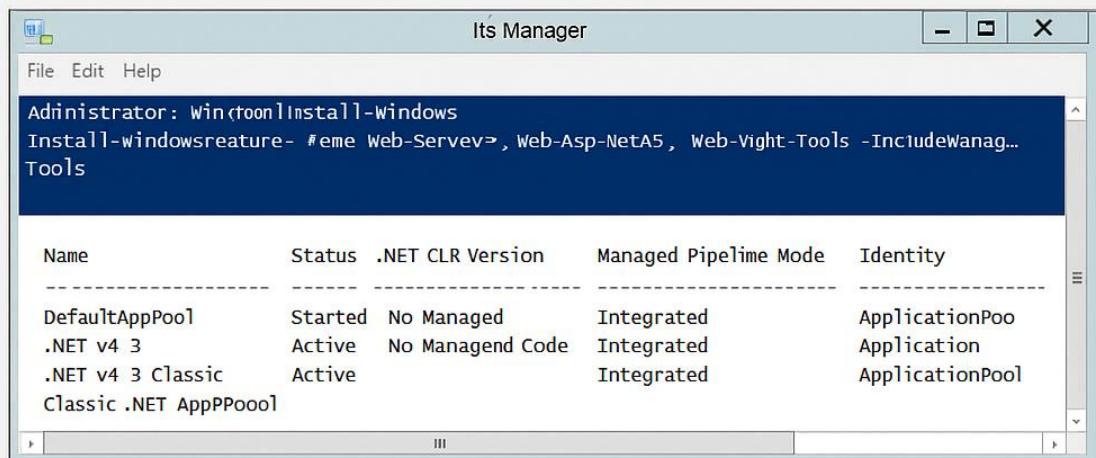
1. Open **Server Manager** → **Add Roles and Features**.
2. Select **Web Server (IIS)** and include:
3. Web Server → Application Development → **.NET Extensibility, ASP.NET, ISAPI Extensions, ISAPI Filters**
4. Management Tools → **IIS Management Console**
5. Install and reboot if required.
Screenshot: capture Server Manager after selecting features.
6. Install-WindowsFeature -name Web-Server, Web-Asp-Net45, Web-Mgmt-Tools -
IncludeManagementTools



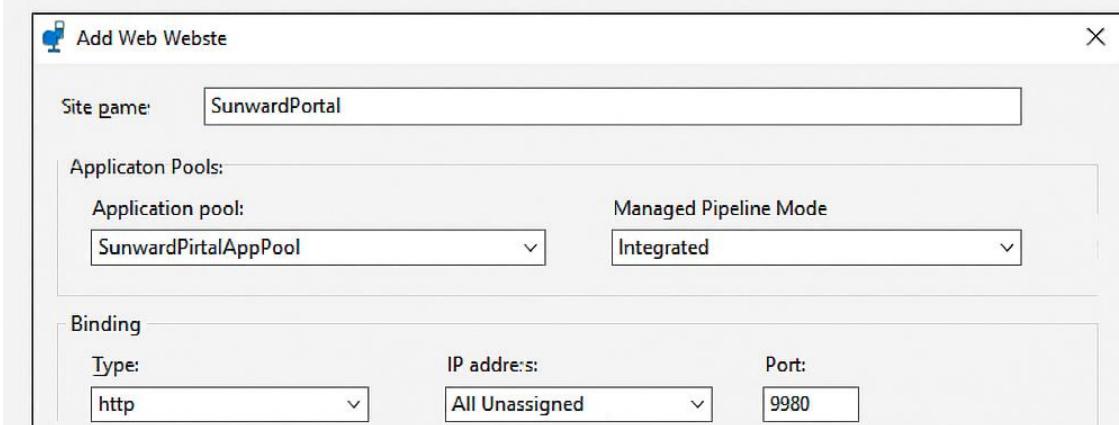
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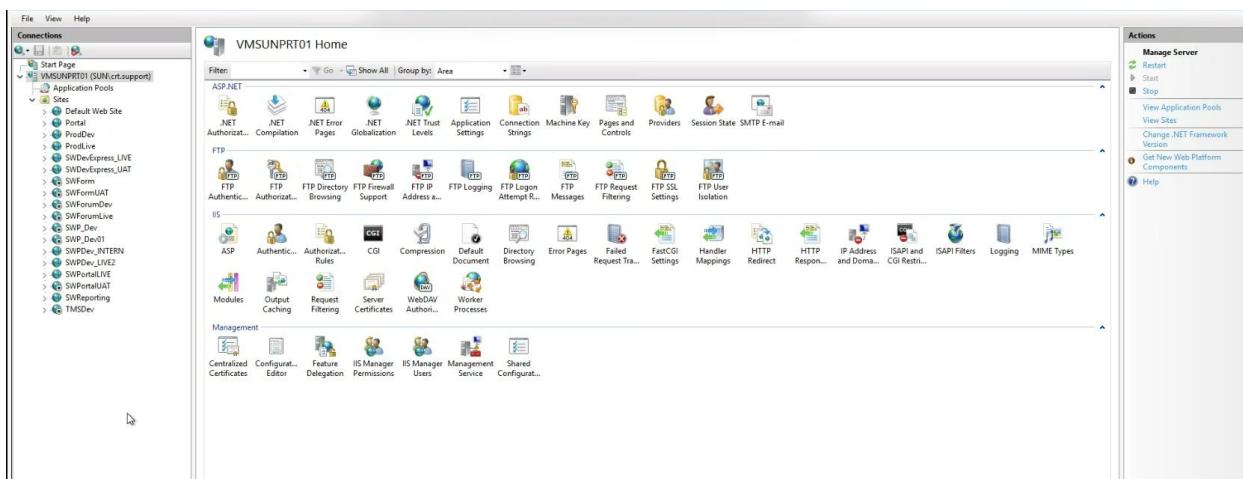


2. Install: ISNN. ImpTool\webabapp-eamd -Ile : All Figure 1. sourcesstholl



3. SunwardPortalAppPool Add | SunwardPortal added

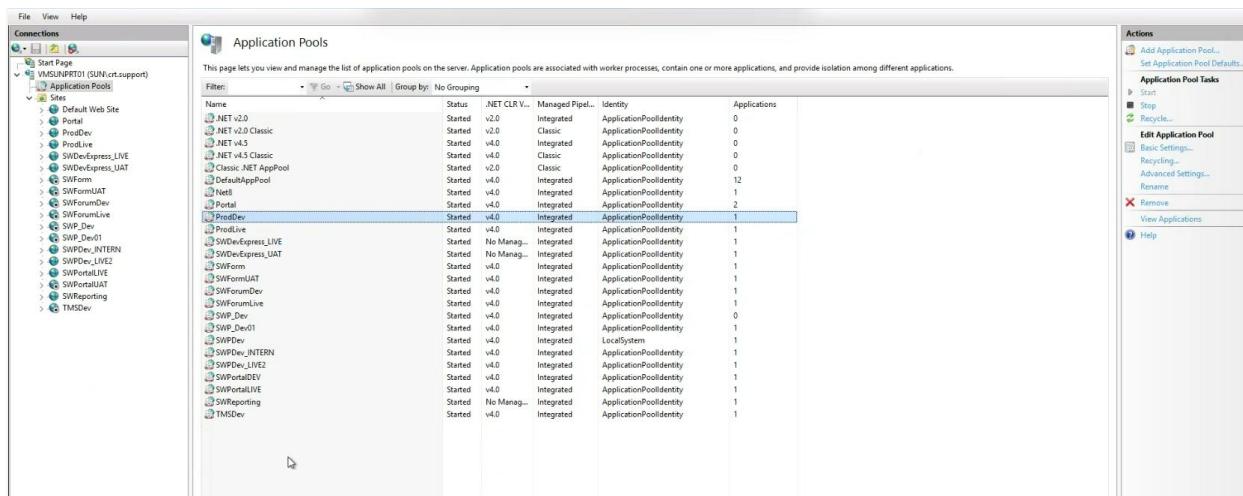


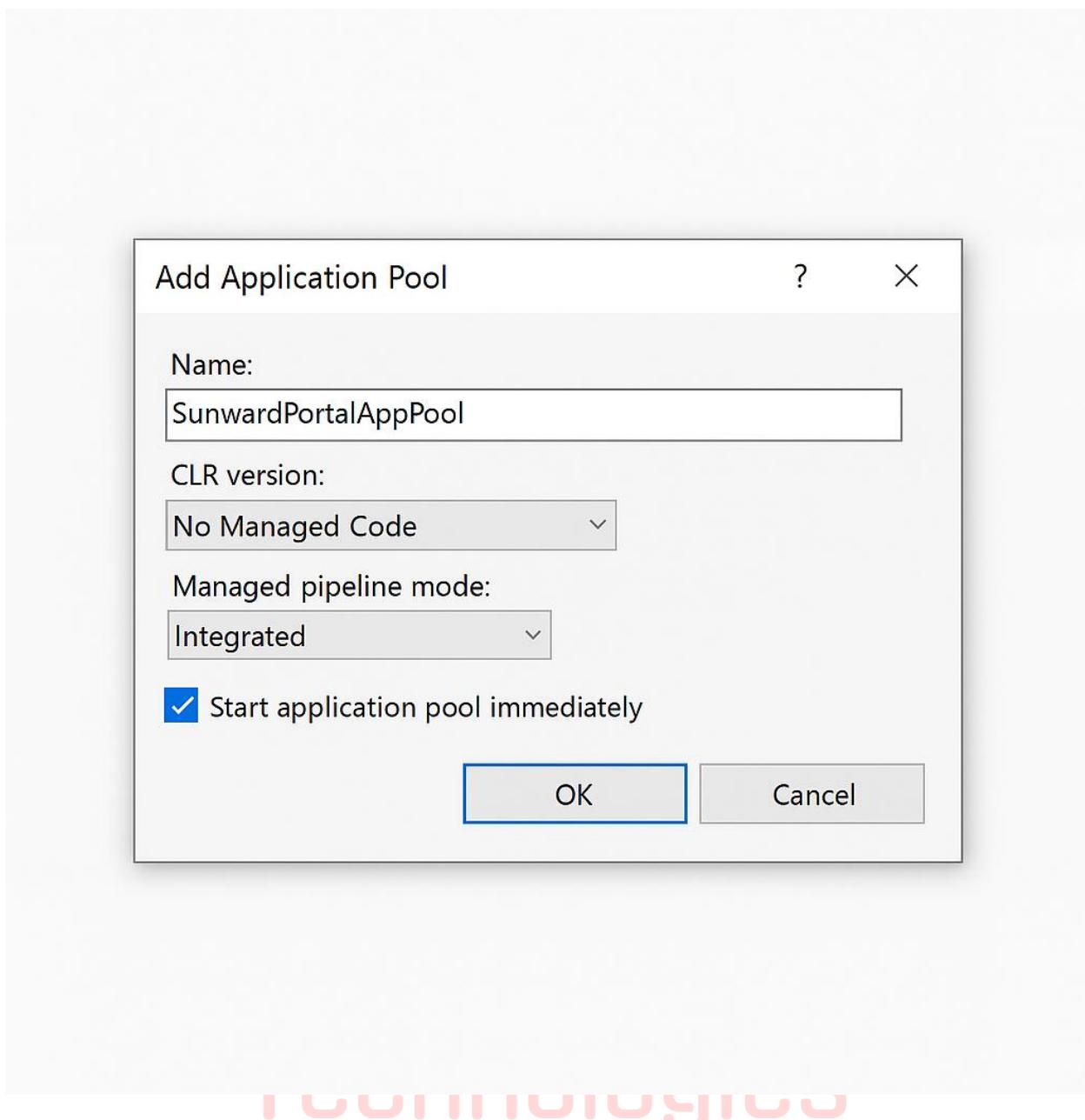


3. Create Application Pool

1. Open **IIS Manager** (inetmgr).
2. Select **Application Pools** → **Add Application Pool...**
3. Name: SunwardPortalAppPool
4. .NET CLR Version: No Managed Code (for ASP.NET Core) or v4.0 for .NET Framework
5. Managed pipeline: Integrated
6. Click **OK**.

Screenshot: new App Pool highlighted.





Import-Module WebAdministration

```
New-WebAppPool -Name "SunwardPortalAppPool"
```

```
Set-ItemProperty IIS:\AppPools\SunwardPortalAppPool -Name processModel.identityType -Value "ApplicationPoolIdentity"
```

```
# If .NET Framework site:
```

```
Set-ItemProperty IIS:\AppPools\SunwardPortalAppPool -Name managedRuntimeVersion -Value "v4.0"
```

4. Create Physical Folder & Copy Files

1. On the server create folder: E:\SWWEBAPP\SWPortal\.
2. Copy your published web app files there (index, web.config, bin, wwwroot, etc). For ASP.NET Core, ensure the web.config is present (or configure reverse-proxy).
3. **Tip:** If files are coming from CI, you can use FTP, SMB, or copy over via RDP.

Copy:

- web.config
- bin/
- wwwroot/
- All DLLs
- Static files



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New Application Pool

?

X

Name:

SunwardPortalAppPool

.NET CLR version:

No Managed Code ▾

Managed pipeline mode:

Integrated ▾

Start application pool immediately

OK

Cancel

5. Create Site in IIS

5.1. In IIS Manager → right-click Sites → Add Website

Site name: SunwardPortal

- Physical path: E:\SWWEBAPP\SWPortal

2. Application pool: SunwardPortalAppPool
3. Binding:
 - Type: http (or https)
 - IP address: All Unassigned (or specific)
 - Port: 8423
 - Host name: https://portal.sunwardpharma.com:8423/
 - Click **OK**.

File Explorer screenshot showing the contents of the E:\SWWEBAPP folder:

	Name	Date modified	Type	Size
Quick access				
Desktop	FileAPI	10/03/25 2:24 PM	File folder	
Downloads	FileViewer	19/09/25 5:44 PM	File folder	
Documents	FileViewerUAT	19/09/25 5:44 PM	File folder	
Pictures	FormDev	25/05/23 6:15 PM	File folder	
de	FormLive	25/05/23 6:15 PM	File folder	
es	ForumApi	11/04/23 2:14 PM	File folder	
ja	ForumDev	11/04/23 2:18 PM	File folder	
ko	ForumDevApi	11/04/23 2:14 PM	File folder	
This PC	ForumLive	11/04/23 2:17 PM	File folder	
3D Objects	New folder	10/01/24 9:14 AM	File folder	
Desktop	ProdDev	08/01/24 4:37 PM	File folder	
Documents	ProdLive	09/01/24 9:42 AM	File folder	
Downloads	SWPortal	14/10/25 1:40 PM	File folder	
Music	SWPortal12	08/01/24 4:58 PM	File folder	
Pictures	SWPortalUAT	14/10/25 1:40 PM	File folder	
Videos	SWUpgraded	19/08/24 10:30 AM	File folder	
Local Disk (C:)	TMSAPI	20/05/24 5:48 PM	File folder	
Data (E:)	TMSApiDev	20/05/24 5:48 PM	File folder	
	TMSAPIDUMMY	24/06/25 10:28 AM	File folder	
	TMSDev	27/11/23 6:11 PM	File folder	
	UAT	08/05/23 9:16 AM	File folder	

5.2.(Optional) Create Virtual Directory / Application under an existing site

Expand Sites → select the site (e.g., Default Web Site) → right-click → **Add Application** (or Add Virtual Directory).

1. Alias: SunwardPortal
2. Physical path: E:\SWWEBAPP\SWPortal
3. Application pool: SunwardPortalAppPool
 - Click **OK**.

6. Set Folder Permissions (important)

1. • Right click C:\inetpub\wwwroot\SunwardPortal → **Properties** → **Security** → **Edit** → **Add**.
2. • Add user: IIS AppPool\SunwardPortalAppPool and give **Read & execute, List folder contents, Read**. Add write only if app writes to folder.
3. • Click OK.

7. Bind Domain & (Optional) Configure HTTPS

For HTTP:

Site binding set in step 4. Ensure DNS portal.example.com points to server IP.

For HTTPS:

1. Obtain certificate (from CA or internal).
2. In **IIS Manager** select the site → **Bindings** → **Add** → Type: https → IP/Host/Port 443 → select SSL cert.
3. If using a firewall, open port 443.



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Bindings

Type	Host Name	Port
https	portal.example.com	443

? X

Add... Edit... Remove

Add... Edit... Remove Close



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Security

X

General Sharing Security Previous Versions

Object name: C:\inetpub\wwwroot\SunwardPortal

Group or user names:

- SYSTEM
- Administrators (WEB SERVER01\Administrators)
- Interactive
- IIS AppPool\SunwardPortalAppPool

To change permissions, click Edit.

Edit...

Permissions for IIS AppPool\	Allow	Deny
Full control		
Modify		
Read & execute	✓	
List folder contents	✓	
Read	✓	
Write		

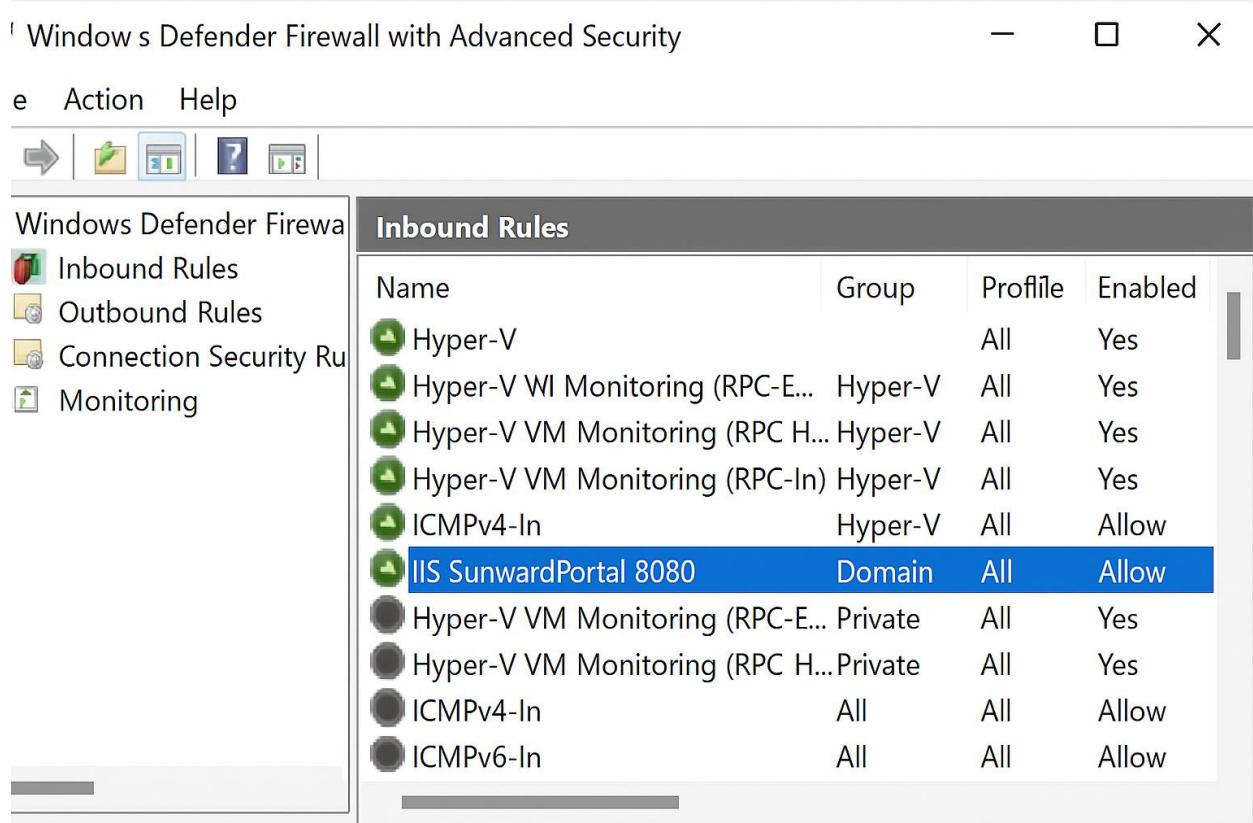
To change permissions, click Edit. To view the properties for a specific user or group, click Advanced.

Advanced

OK Cancel Apply

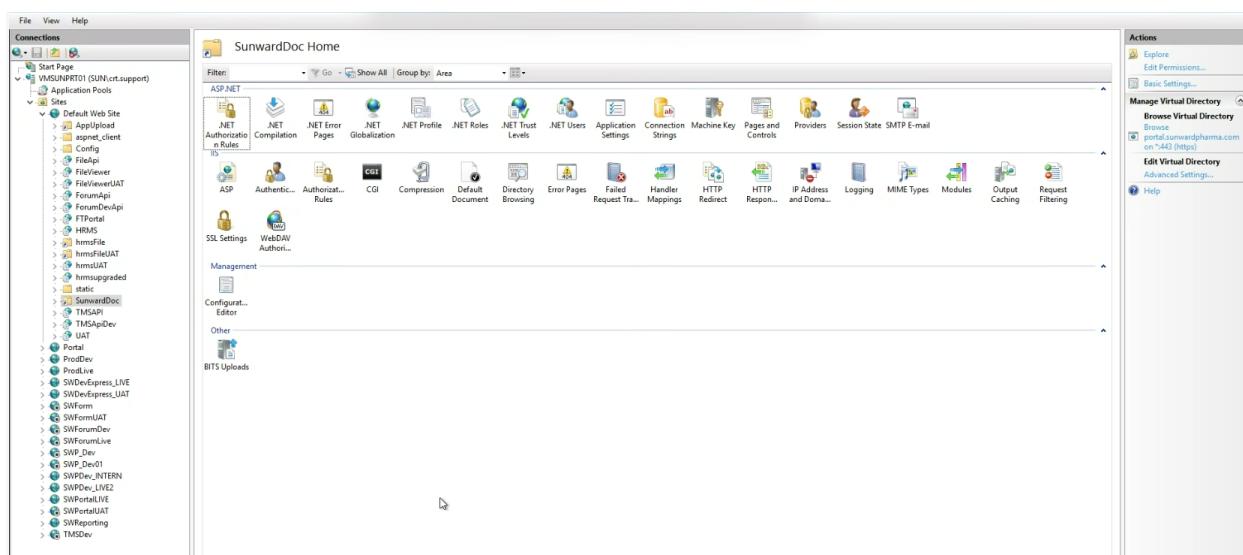
8. Application Settings & web.config (for ASP.NET / .NET Core)

1. Ensure `web.config` exists and has correct `processPath` & arguments for ASP.NET Core (if using ANCM module).
2. For connection strings or app settings, either put them in `appsettings.Production.json` or App Settings in Azure / environment variables. For IIS, you can set environment variables in system settings or in `web.config`.



9. Firewall / Network

1. Open port 8080 (or port used) on server firewall and network firewall.
2. Windows firewall example (PowerShell):



10. Start / Restart & Smoke Test

1. In IIS Manager select site → **Start** (if not started) or **Restart**.
2. From server browser: <http://localhost:8423> (or <http://portal.sunwardpharma.com:8423>)
3. Check for expected home page and verify logs (Event Viewer or application logs).

11. Common Issues & Troubleshooting

1. **HTTP 500** → check web.config and application logs. Turn on stdoutLog temporarily for ASP.NET Core.
2. **HTTP 502 (Bad Gateway)** → ANCM could not start .NET Core process — check event log.
3. **Permission denied errors** → re-check folder ACLs and app pool identity.
4. **Host name binding not working** → ensure DNS is properly pointed and port is open.
5. **SSL handshake error** → certificate mismatch, check CN/SAN and certificate chain.

12. Project Structure & Environment Mapping

The Sunward Portal ecosystem contains multiple applications and APIs deployed across **Live** and **UAT/Dev** environments.

Below is the mapping of each project, purpose, and corresponding folder used in IIS.

1. FileAPI

Purpose:

Provides core document file operations.

Location:

E:\SWWEBAPP\FileAPI

Environment:

✓ Live (Production)

Description:

This API handles file upload, download, storage, deletion, and document-level backend operations.

2. FileViewer

Purpose:

Document File Viewer (Live)

Location:

E:\SWWEBAPP\FileViewer

Environment:

✓ Live (Production)

Description:

This module displays stored documents in a browser-friendly viewer. Integrated with FileAPI.

3. FileViewerUAT

Purpose:

Document File Viewer (UAT / Dev)

Location:

E:\SWWEBAPP\FileViewerUAT

Environment:

✓ UAT / Development

Description:

Same as FileViewer but used for development and testing before live release.

4. SWPortal

Purpose:

Sunward Portal – Main Application (Live Source)

Location:

E:\SWWEBAPP\SWPortal

Environment:

Live (Production)

Description:

Main Sunward portal used by end users. Connected to Prod database.

5. SWPortalUAT

Purpose:

Sunward Portal – Test Application (Dev Source)

Location:

E:\SWWEBAPP\SWPortalUAT

Environment:

UAT / Development

Description:

Development/testing version for new features. Connected to UAT/Dev database.

6. TMSAPI (Legacy)

Purpose:

Old/Legacy TMS API

Location:

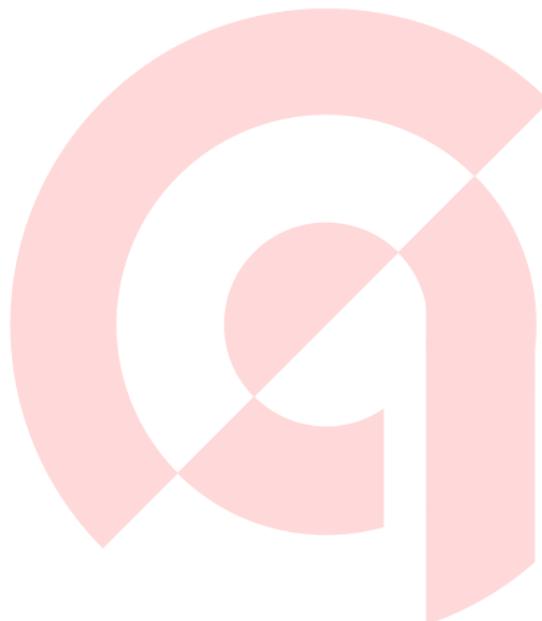
E:\SWWEBAPP\TMSAPI

Environment:

- ⚠ Deprecated (old application)

Description:

Legacy API used in earlier system versions. Kept only for backward compatibility or historical data.



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