

Installing Syspro Containers

Version 1 – April 2026





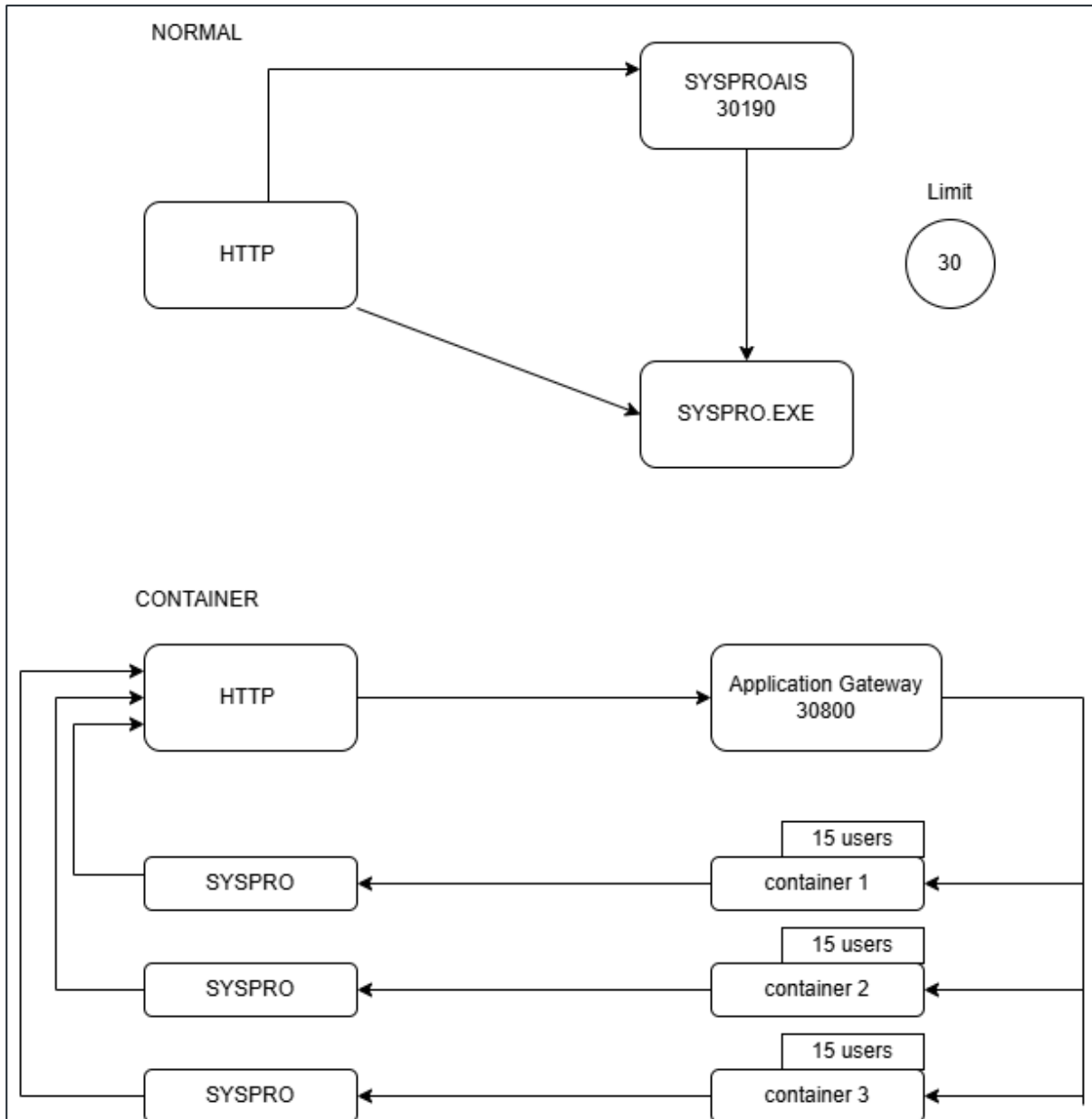
Contents

Contents	2
Syspro Container Installation	3
Diagram: Installation Process	3
1. Download the Container Installer	4
2. Install Docker via PowerShell	4
3. Install the Container Controller	5
4. Alternative Installation Method (if application fails)	6
5. Script and DLL Configuration	7
6. SYSPRO WebUI Container Controller Login	9
7. Retrieve Images	10
8. Folder Configuration	14
9. WebUI Environment Variables	16
10. Configuration Files	19
11. Container Deployment	20
12. Troubleshooting	22

Syspro Container Installation

Installation Process Diagram

The following diagram depicts the installation process of Syspro containers:



1. Download the Container Installer

- Paste the following link into a web browser:

<https://syspro8install.azureedge.net/containerfiles/SYSPRO.Container.Controller.exe>

- Allow the container installer to begin downloading.

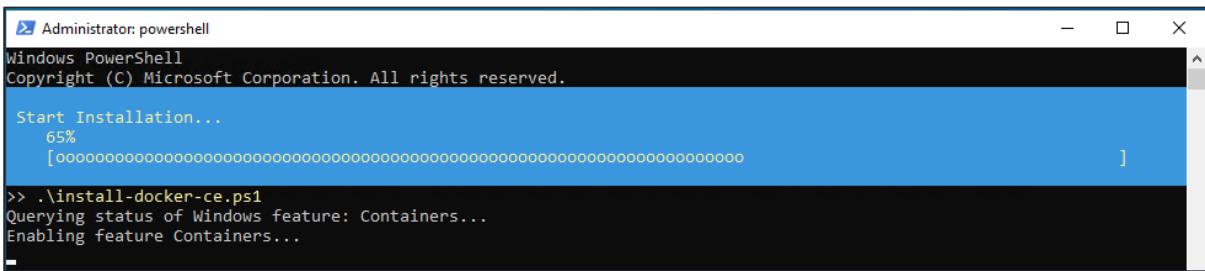
 SYSPRO.Container.Controller	8/27/2025 4:33 AM	Application	3,677 KB
---	-------------------	-------------	----------

2. Install Docker via PowerShell

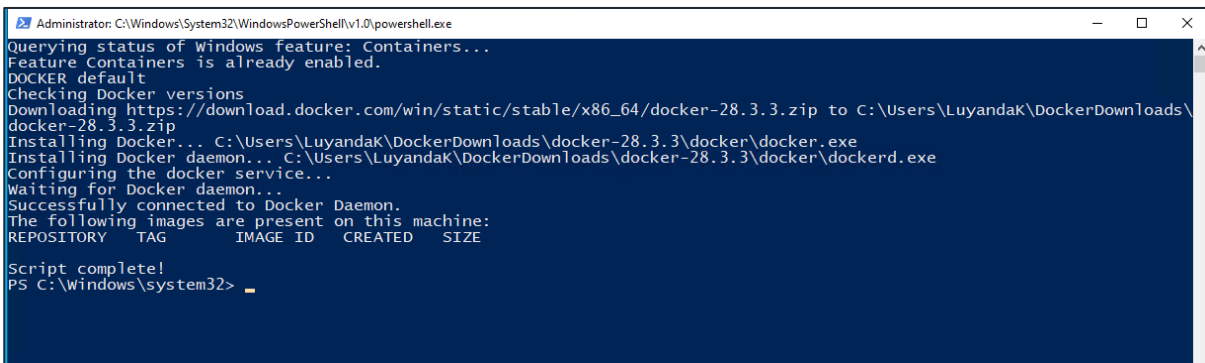
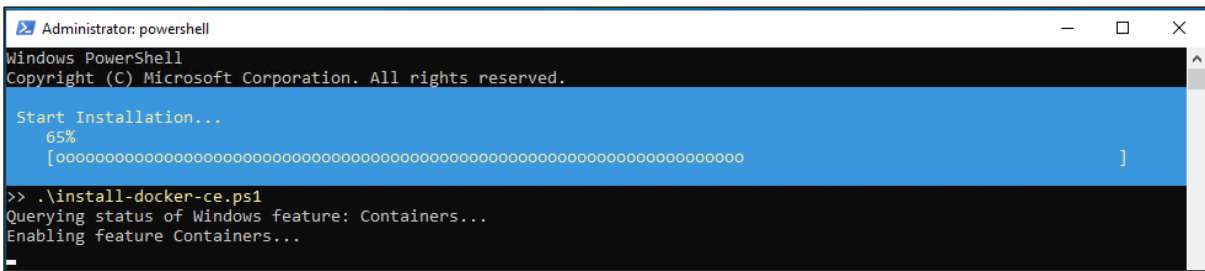
- Copy and paste the following command into PowerShell to install Docker:

```
INVOKE-WEBREQUEST -UseBasicParsing "https://raw.githubusercontent.com/microsoft/Windows-Containers/Main/helpful_tools/Install-DockerCE/install-docker-ce.ps1" -o install-docker-ce.ps1
```

```
.\install-docker-ce.ps1
```

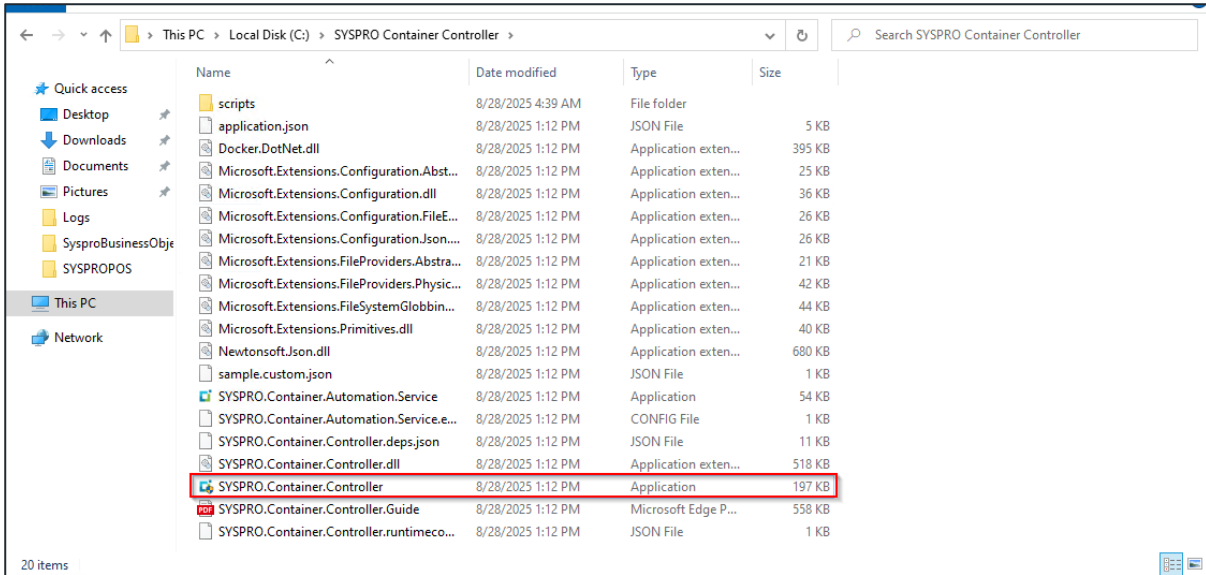


During installation, you may be prompted to restart your PC/VM. After restarting, the installation will continue automatically.

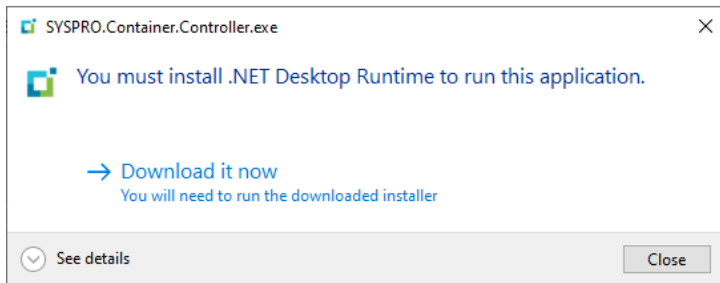


3. Install the Container Controller

- Once Docker is installed, run the previously downloaded SYSPRO.Container.Controller.exe.
- After installation, launch the SYSPRO.Container.Controller Application.



Note: If the error 'Docker is missing a runtime' is displayed, install the required Windows Runtime package, then retry the container application.



4. Alternative Installation Method (if application fails)

- Download the temporary zip file by pasting the following link in your browser:

https://sysprodotcom-my.sharepoint.com/:f/g/personal/duppie_duplessis_syspro_com/EoCWNJO67zFBunWKPgU6SWwBWabkV3yFsb6v1Hlitjtmuw?e=1hK6SX

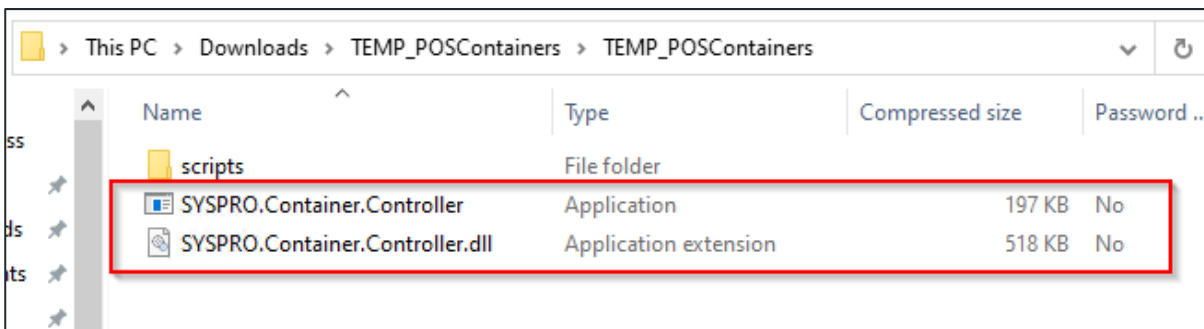
- Open the downloaded Temp.zip file and navigate to the SYSPRO CONTAINER CONTROLLER folder.



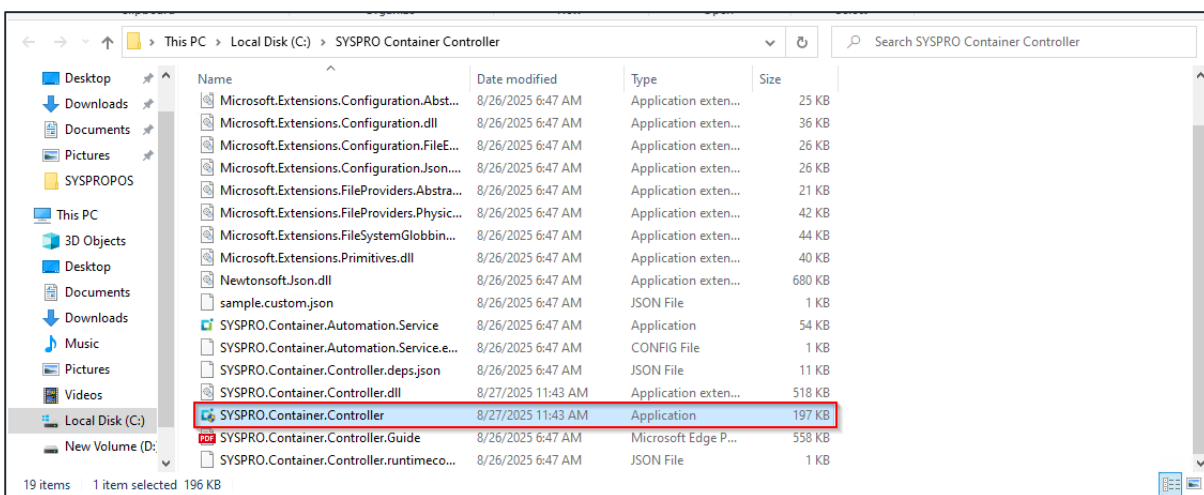
- Stop the SYSPRO Container Services.

SYSPRO Container Automation Service	Name	Description	Status	Startup type	Log on as	
Start the service Description: SYSPRO Container Automation - rebuilds the SYSPRO Application Gateway configuration file		SYSPRO Application Gateway	SYSPRO Ap...	Manual	Local System...	
		SYSPRO Avanti Initialization Service	SYSPRO Av...	Automatic	Local System...	
		SYSPRO Container Automation Service	SYSPRO Co...	Automatic (...)	Local System...	
		SYSPRO Deployment Test Service	Used for de...	Running	Automatic	Local System...
		System Event Notification Service	Monitors sy...	Running	Automatic	Local System...
		System Events Broker	Coordinates...	Running	Automatic (T...	Local System...
		System Guard Runtime Monitor Broker	Monitors an...	Running	Manual (Trig...	Local System...
	Task Scheduler	Enables a us...	Running	Automatic	Local System...	

- Copy the two files from the zip folder and paste them into the appropriate directory.

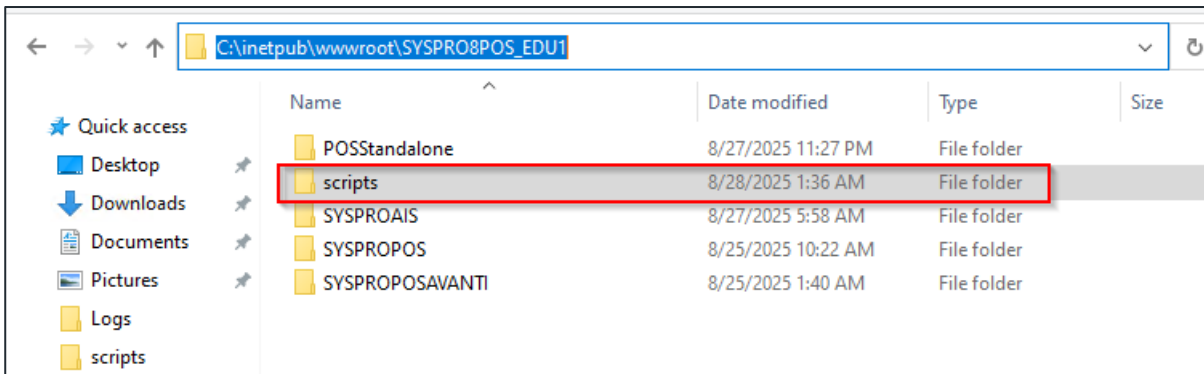


- Relaunch the SYSPRO Container Control Application.



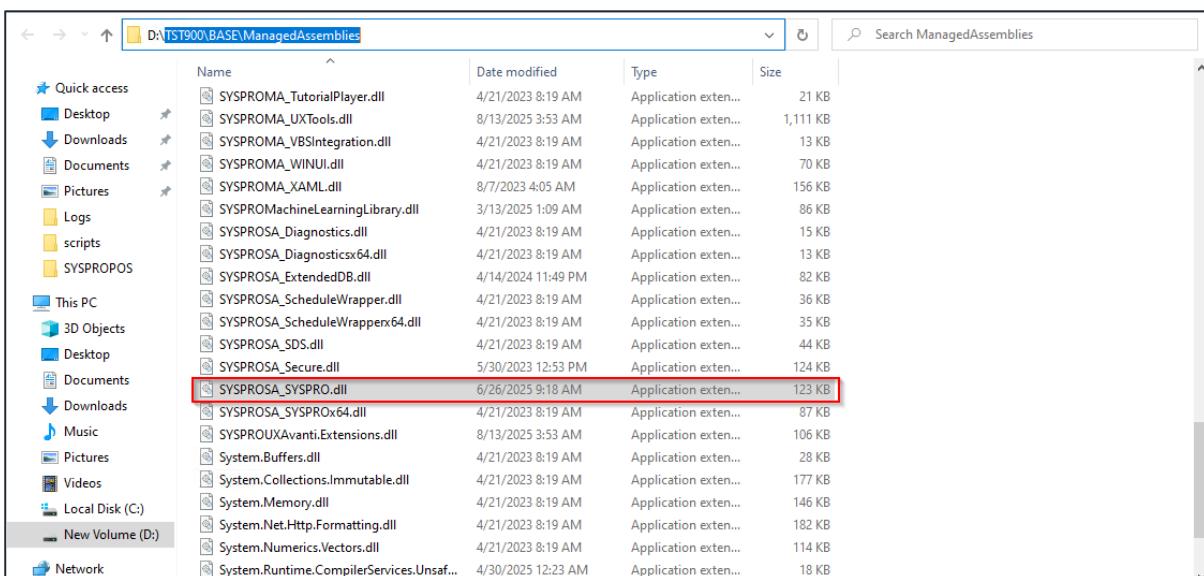
5. Script and DLL Configuration

- Copy the scripts folder into the following directory: C:\inetpub\wwwroot\SYSPRO8POS_EDU1.

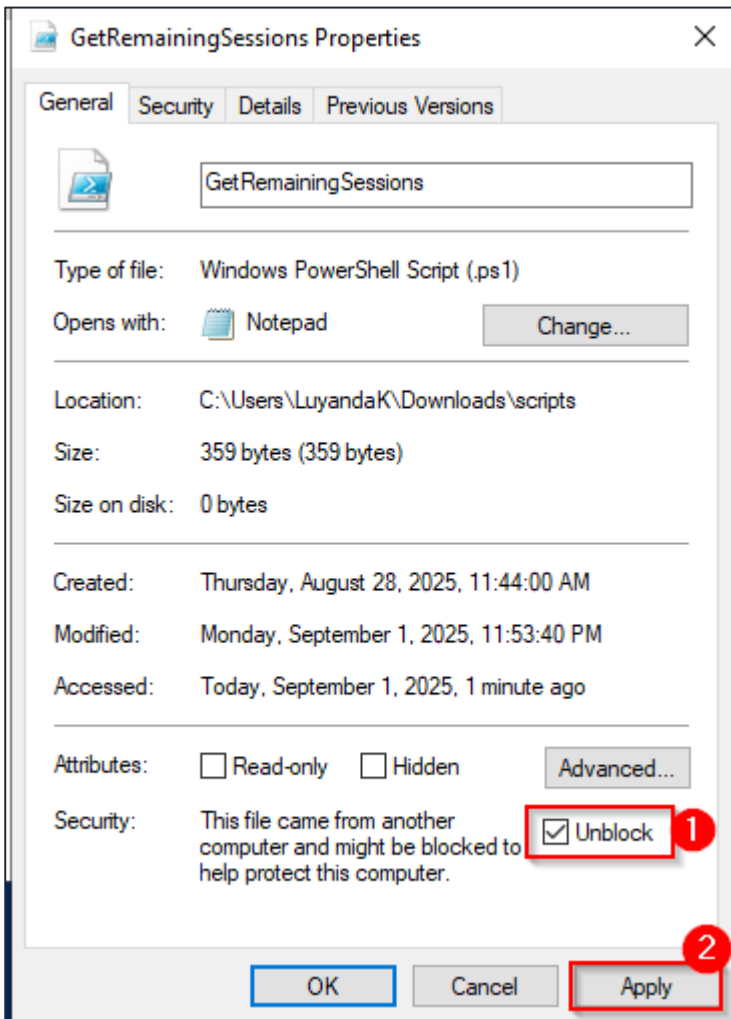


- Within the scripts folder, copy the file:

TST900\BASE\ManagedAssemblies\SYSPROSA_SYSPRO.dll



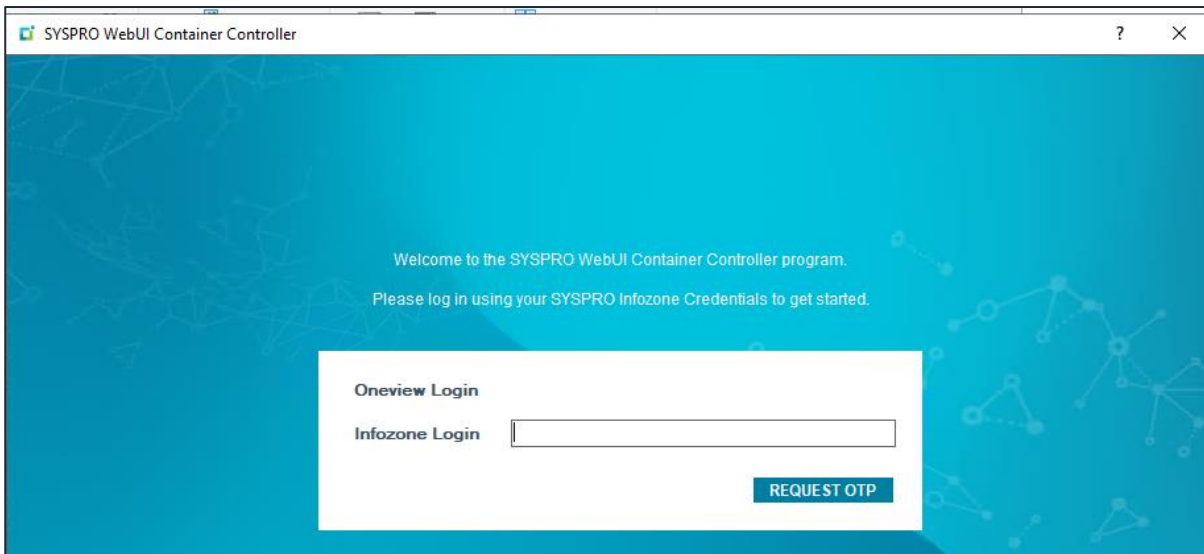
- Right-click on GetRemainingSession, select Properties and click Unblock.



- Select Apply.

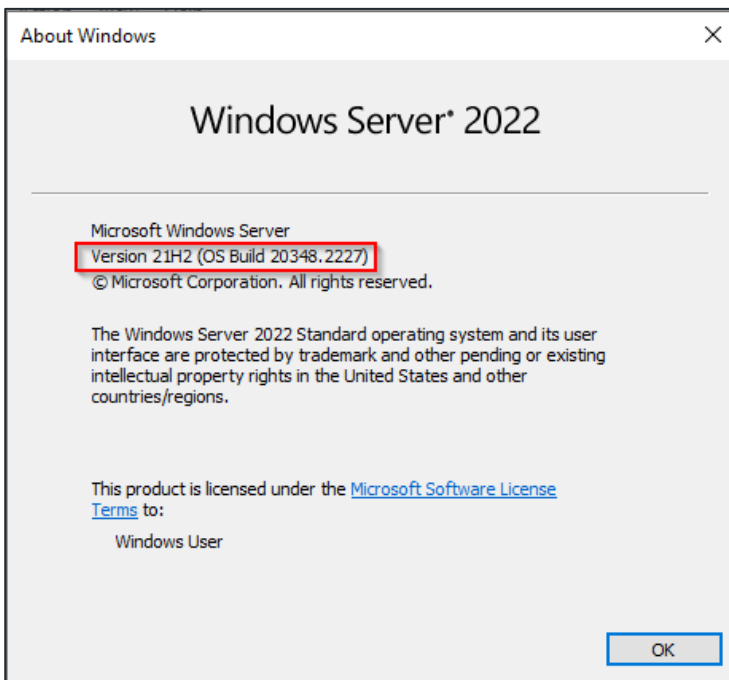
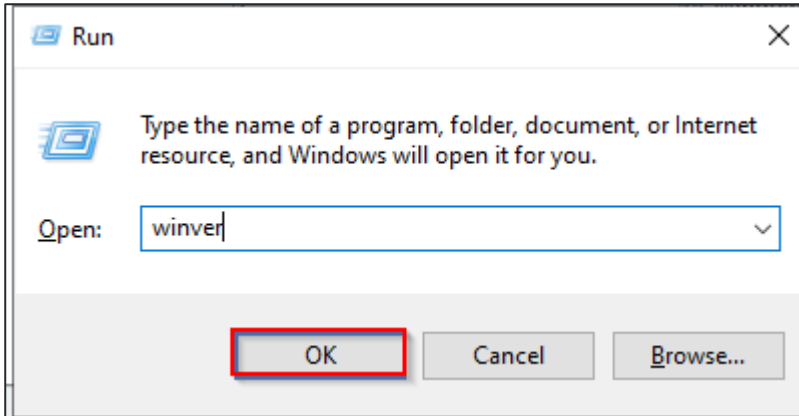
6. SYSPRO WebUI Container Controller Login

- The application will require your InfoZone login and a one-time password (OTP).

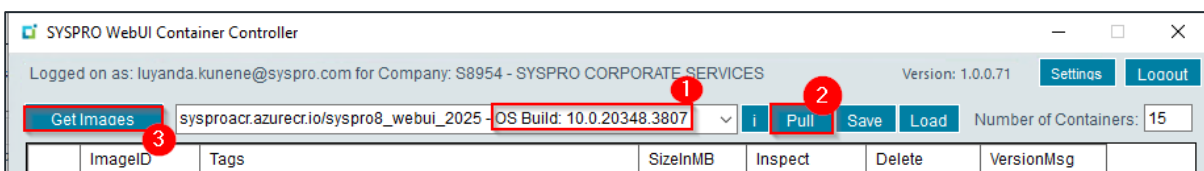


7. Retrieve Images

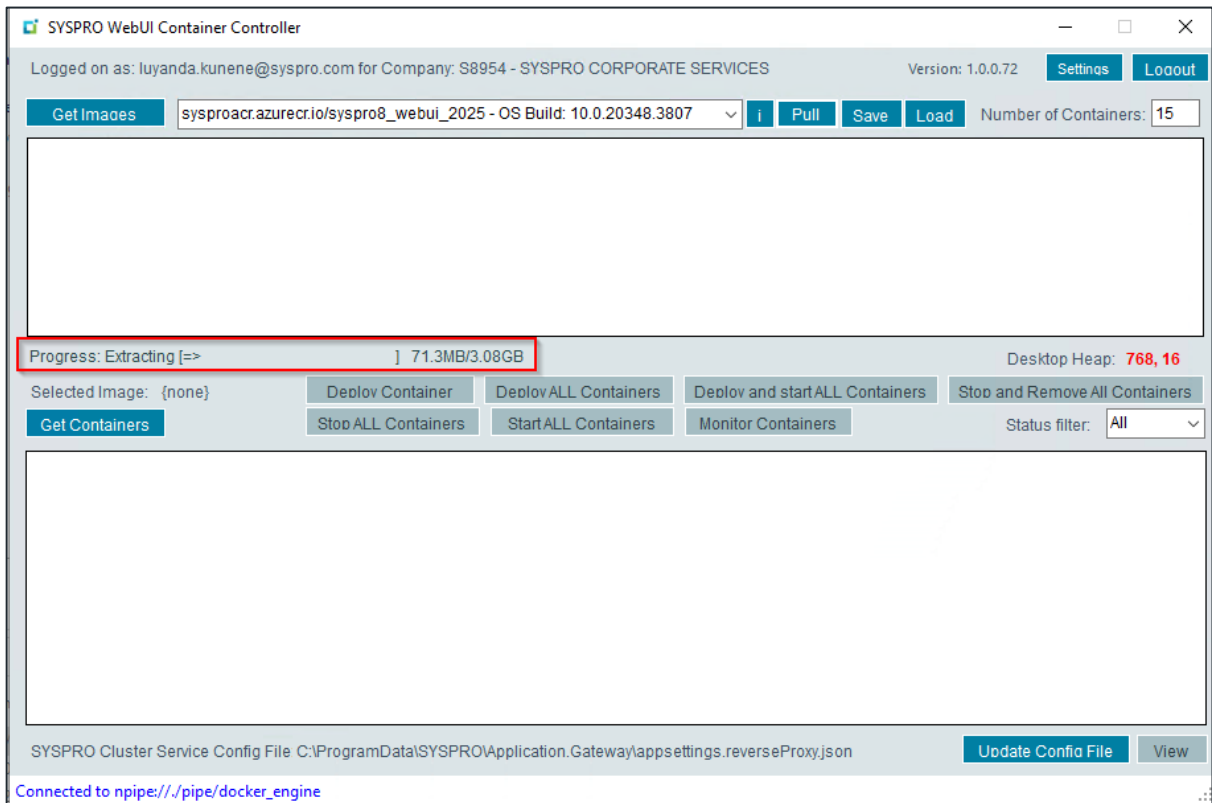
- Before retrieving the image, verify your Windows version:
- Press Windows Key + R, type winver, and confirm your Windows Server version.



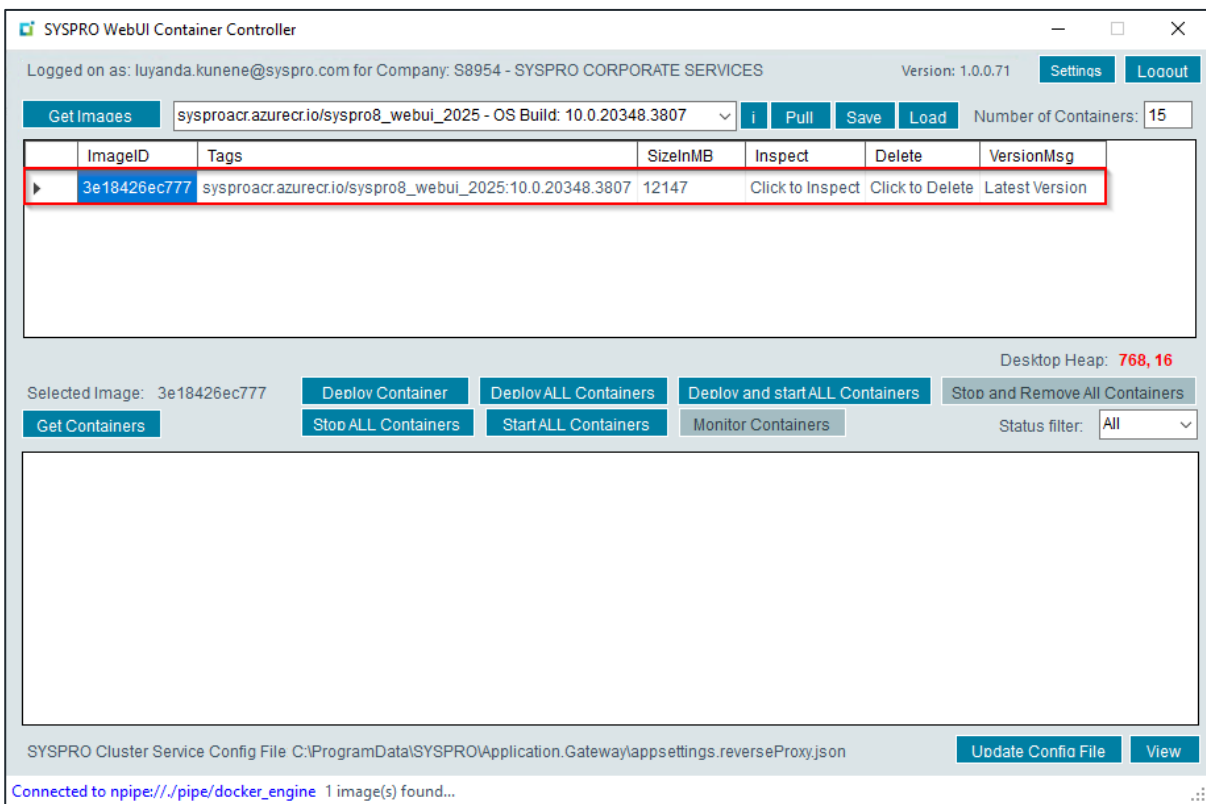
- In the WebUI Container, select the appropriate OS Builder for your server.



- Click Pull and wait for the image download to be completed.



- Confirm the process when prompted, then refresh to view the images.



- Navigate to Settings > Container Specific Settings.

SYSPRO WebUI Container Controller

Logged on as: luyanda.kunene@syspro.com for Company: S8954 - SYSPRO CORPORATE SERVICES Version: 1.0.0.71 [Settings](#) [Logout](#)

Get Images [i](#) [Pull](#) [Save](#) [Load](#) Number of Containers:

ImageID	Tags	SizeInMB	Inspect	Delete	VersionMsg
▶ 3e18426ec777	sysproacr.azurecr.io/syspro8_webui_2025:10.0.20348.3807	12147	Click to Inspect	Click to Delete	Latest Version

Desktop Heap: **768, 16**

Selected Image: 3e18426ec777 [Deploy Container](#) [Deploy ALL Containers](#) [Deploy and start ALL Containers](#) [Stop and Remove All Containers](#)

[Get Containers](#) [Stop ALL Containers](#) [Start ALL Containers](#) [Monitor Containers](#) Status filter:

SYSPRO Cluster Service Config File C:\ProgramData\SYSPRO\Application.Gateway\appsettings.reverseProxy.json [Update Config File](#) [View](#)

Connected to npipe://./pipe/docker_engine 1 image(s) found...

This PC > Local Disk (C:) > Program Files > SYSPRO >

Name	Date modified	Type	Size
SYSPRO 8 Communications Service	8/14/2025 11:55 AM	File folder	
SYSPRO 8 e.net Communications Load B...	10/20/2023 8:58 AM	File folder	
SYSPRO 8 e.net Diagnostics	12/5/2023 12:21 PM	File folder	
SYSPRO 8 Service Upgrade Manager	10/20/2023 9:02 AM	File folder	
SYSPRO Application Gateway	4/23/2024 6:48 AM	File folder	
SYSPRO Avanti Initialization Service	8/14/2025 11:47 AM	File folder	
SYSPRO Deployment Test Service	8/14/2025 9:57 AM	File folder	

SYSPRO WebUI Container Controller

These settings are saved to the Custom.Config file in the SYSPRO Contrainer Controller folder

General Settings **Container Specific Settings** Auto Deployment Settings Infozone Settings Debugging Settings

Container naming convention:
The 000 will be replaced by a counter generated by the application. Will be converted to UPPERCASE. Total 15 characters.

Environment variables for the container:

```
MFRU_NOINHERIT=TRUE
SYSPRO_Avanti_Service_Exec=C:\SYSPRO\Services\SYSPRO_Avanti
\SYSPROInitializationHostService.exe
SYSPRO_Base_Dir=C:\SYSPRO\BASE
```

Container hosts file injection

IP Address

Host Name

Run Powershell script on deployment Debug deployment

These are environmental variables that would be injected into the docker containers If the key ends in Dir or Exe, these paths will be validated before deployment

SYSPRO Services user for container

Service user username:

Service user password:

Use this if you want to run the SYSPRO AIS service in the container as a named user. Password must be longer than 3 characters and adhere to Microsoft password requirement rules. Note the user will be created locally, so it will be created as .\username

Delay Container Start
 Time in milliseconds to delay the starting of containers:

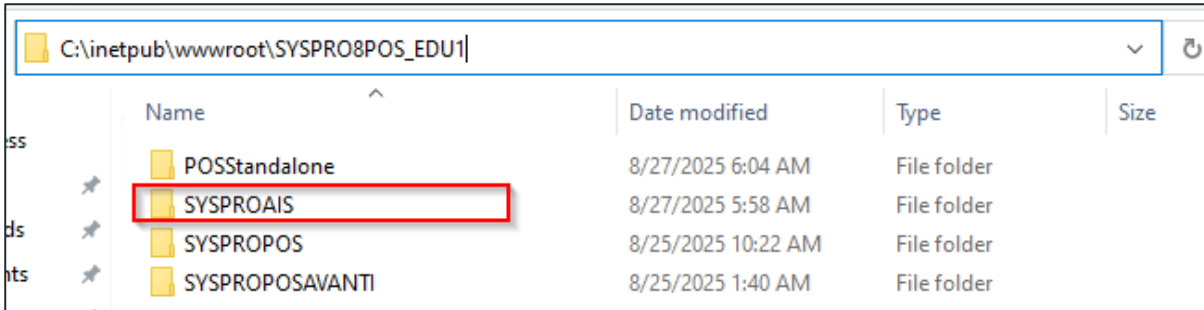
Container mounts:
These are the folders that will be shared with the container. The main SYSPRO application folder (normally C:\SYSPRO) must be mounted. Comma separated values supported.

Container Avanti Initialization Service port:
This is the port on which the Avanti Initialization Service will run on 30190

Settings will be saved to the Custom.Config file in the application directory.

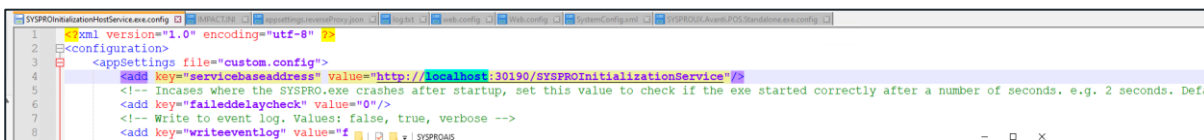
8. Folder Configuration

- Navigate to Program Files > SYSPRO and copy the Avanti Initialization Service folder.
- Paste it into: C:\inetpub\wwwroot\SYSPRO8POS_EDU1.

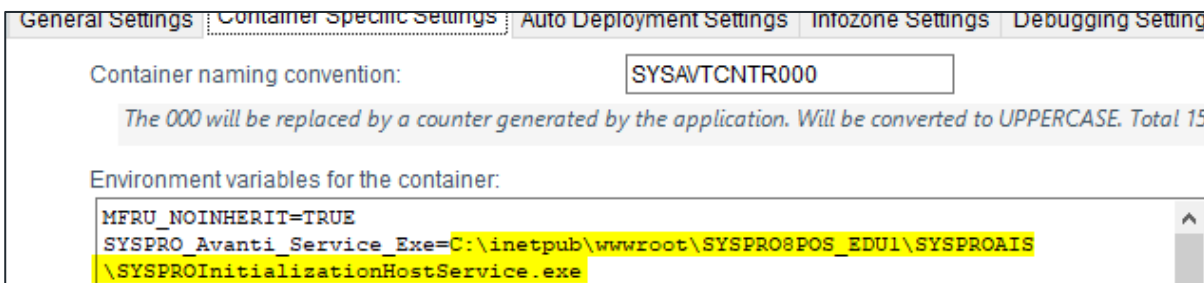


Note: You may rename the folder to **SYSPROAIS**.

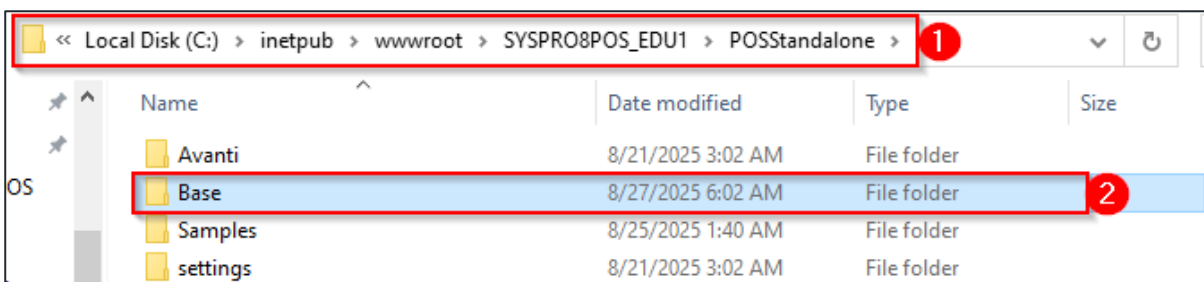
- Open SYSPROInitializationHostService.exe.config and update the servicebaseaddress value to localhost.



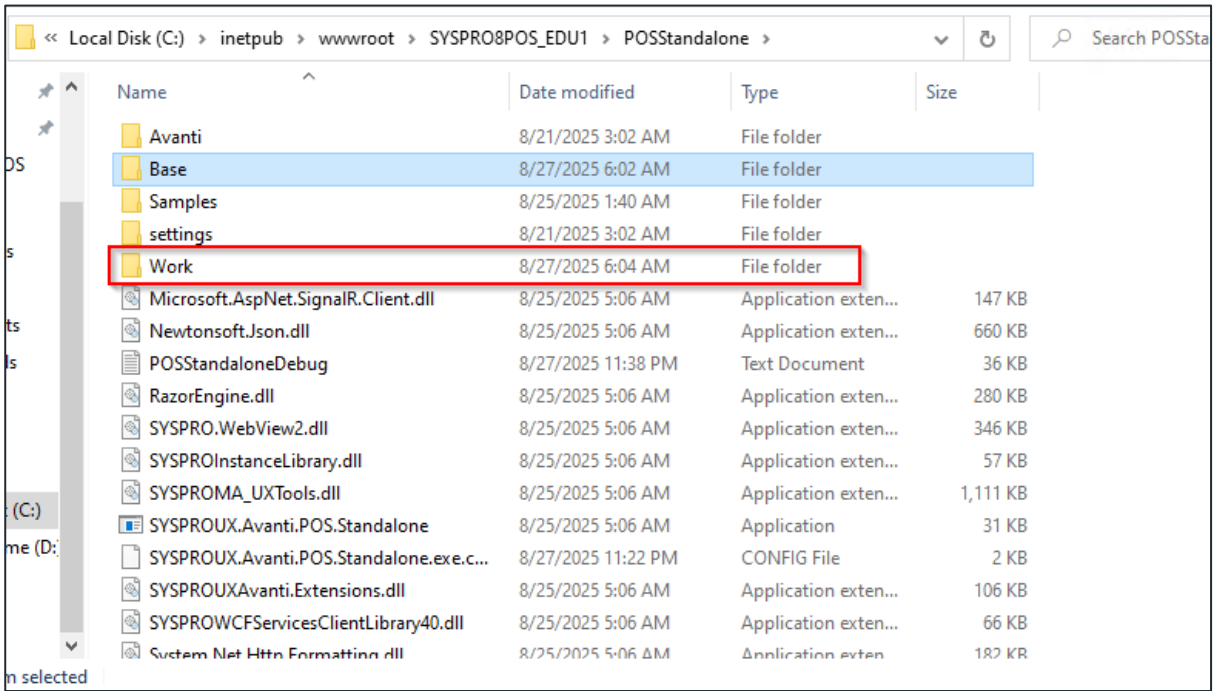
- Copy the path of SYSPROInitializationHostService.exe and add it to the Environment Variable (Container) under: SYSPRO_Avanti_Service_Exec.



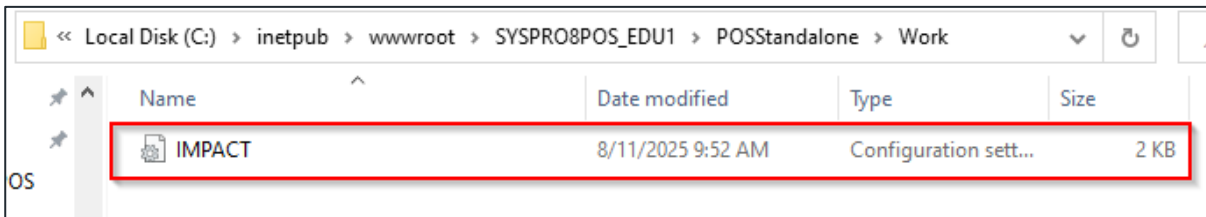
- In the following directory, create two new folders:
C:\inetpub\wwwroot\SYSPRO8POS_EDU1\POSStandalone\Base



C:\inetpub\wwwroot\SYSPRO8POS_EDU1\POSStandalone\Work

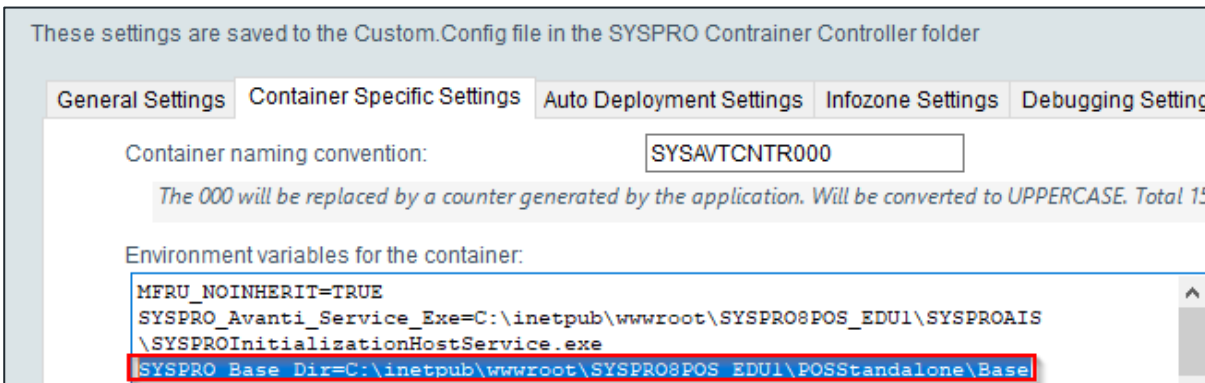
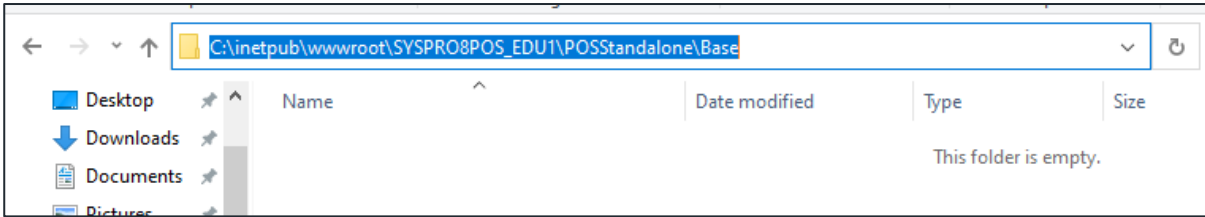


- Copy TST900\Work\impact.ini into the new Work folder.

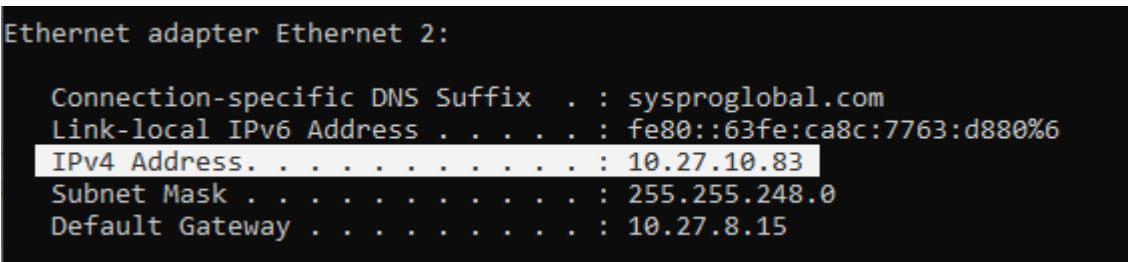


9. WebUI Environment Variables

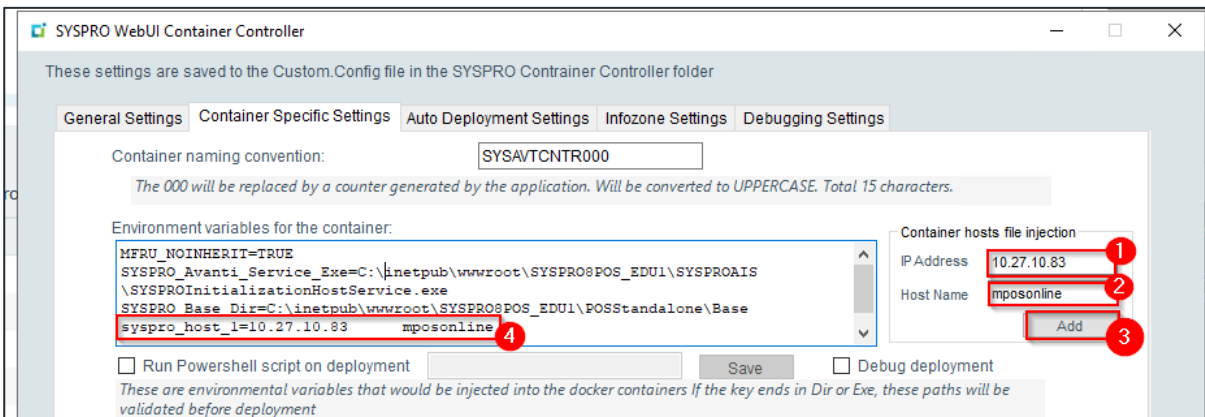
- Add the Base folder path under WebUI (Environment Variables): SYSPRO_Base_Dir.



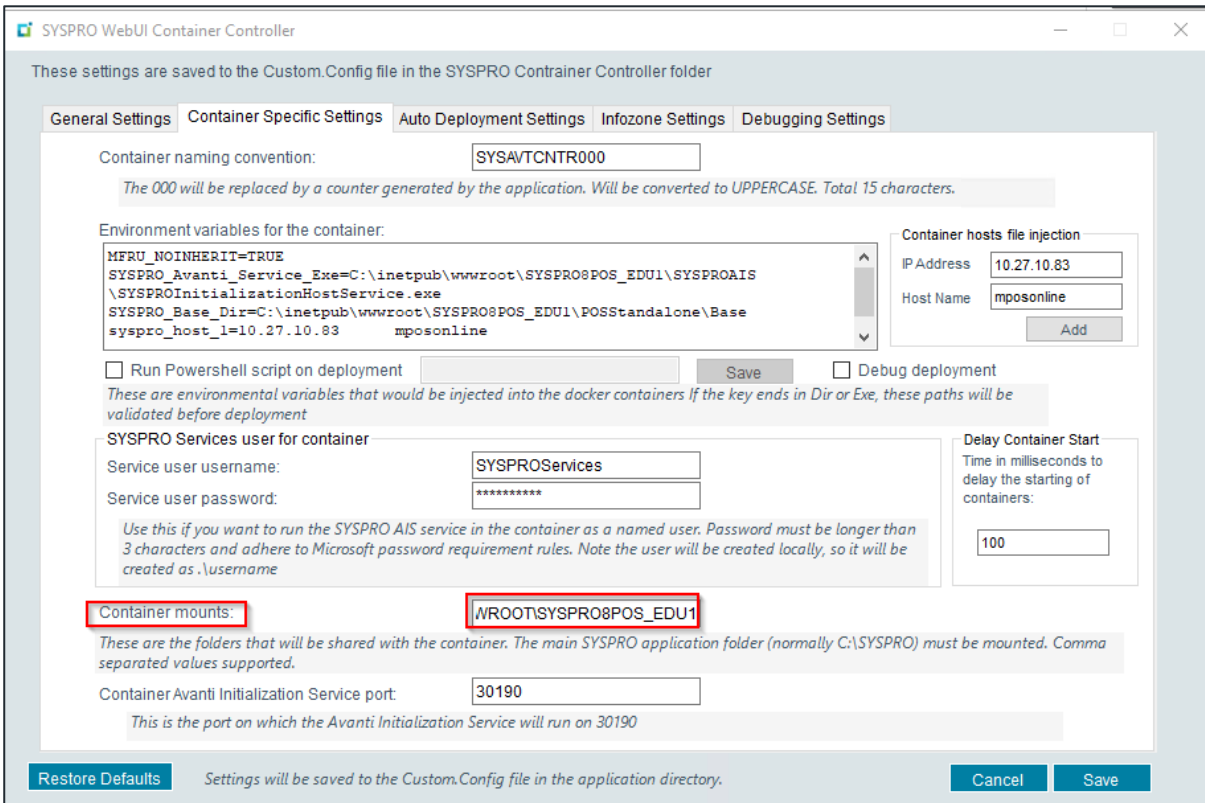
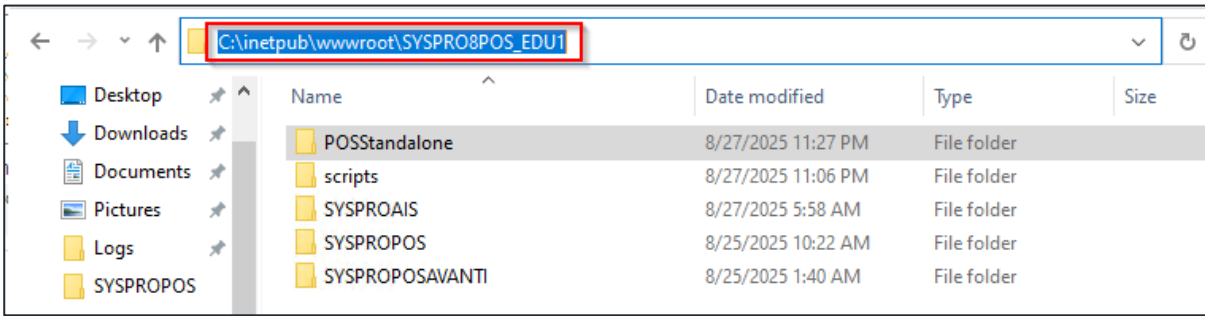
- Under Container Host File Injection, add your IPv4 address.



- Set the Host Name to the server name you are using. Eg. Mposonline.



- Under Container Mounts, paste the path to SYSPRO8POS_EDU1.



- Click Save.

SYSPRO WebUI Container Controller

These settings are saved to the Custom.Config file in the SYSPRO Container Controller folder

General Settings | **Container Specific Settings** | Auto Deployment Settings | Infozone Settings | Debugging Settings

Container naming convention:
The 000 will be replaced by a counter generated by the application. Will be converted to UPPERCASE. Total 15 characters.

Environment variables for the container:

```
MFRU_NOINHERIT=TRUE
SYSPRO_Avanti_Service_Exec=C:\inetpub\wwwroot\SYSPRO8POS_EDU1\SYSPROAIS
\SYSPROInitializationHostService.exe
SYSPRO_Base_Dir=C:\inetpub\wwwroot\SYSPRO8POS_EDU1\POSStandalone\Base
sypro_host_l=10.27.10.83      mposonline
```

Container hosts file injection

IP Address
Host Name

Run Powershell script on deployment Debug deployment
These are environmental variables that would be injected into the docker containers If the key ends in Dir or Exe, these paths will be validated before deployment

SYSPRO Services user for container

Service user username:
Service user password:
Use this if you want to run the SYSPRO AIS service in the container as a named user. Password must be longer than 3 characters and adhere to Microsoft password requirement rules. Note the user will be created locally, so it will be created as .\username

Delay Container Start
Time in milliseconds to delay the starting of containers:

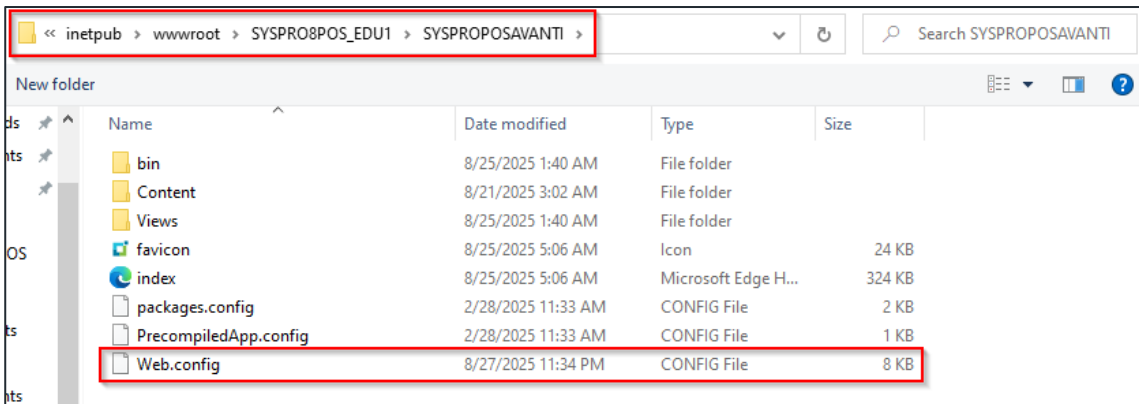
Container mounts:
These are the folders that will be shared with the container. The main SYSPRO application folder (normally C:\SYSPRO) must be mounted. Comma separated values supported.

Container Avanti Initialization Service port:
This is the port on which the Avanti Initialization Service will run on 30190

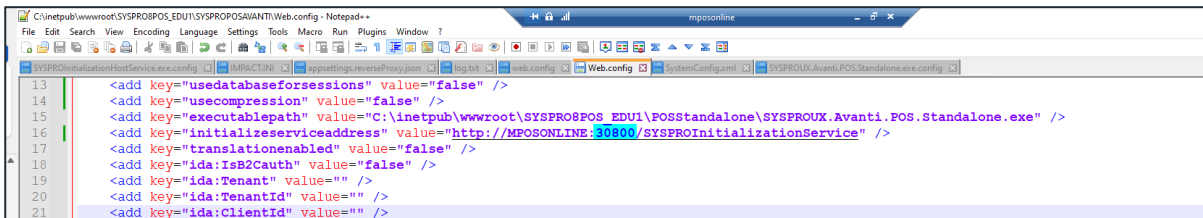
Settings will be saved to the Custom.Config file in the application directory.

10. Configuration Files

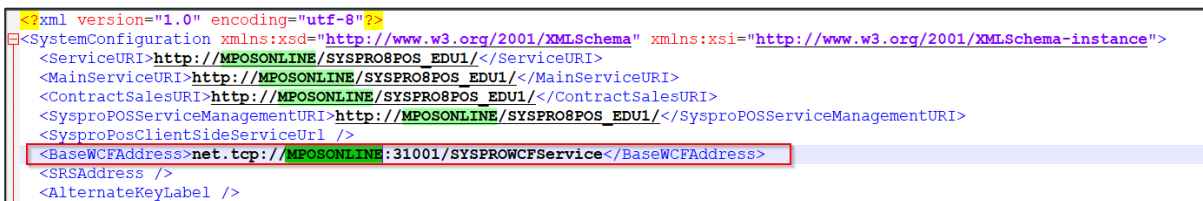
- Navigate to SYSPROPOSAVANTI and edit the web.config file.



- Change the port under initialization service address from 30190 to 30800.

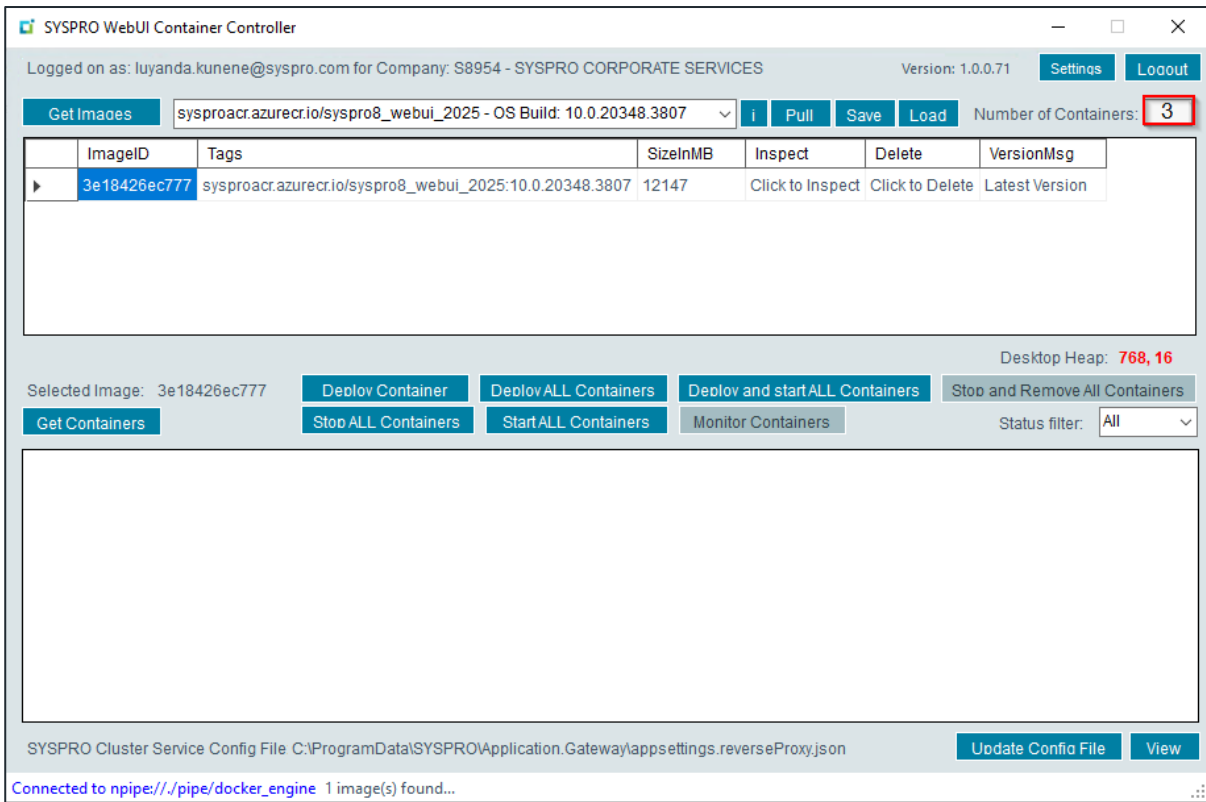


- Edit the SystemConfig file located at:
C:\inetpub\wwwroot\SYSPRO8POS_EDU1\SYSPROPOS\SystemConfig
- Change BaseWCFAddress from localhost to MPOSONLINE.

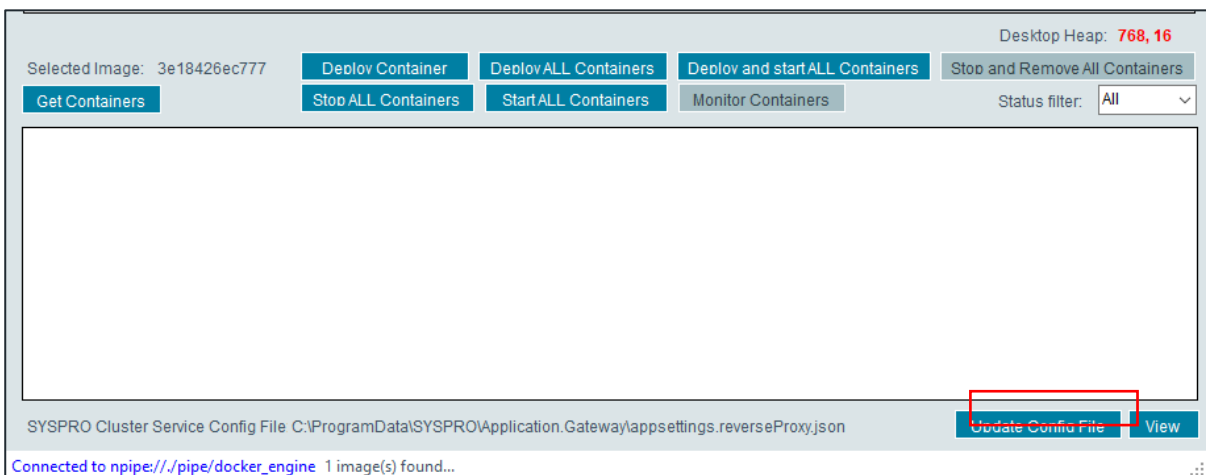


11. Container Deployment

- Specify the number of containers you wish to create (e.g., 3).



- Click Update Config File to refresh appsettings.reverseProxy.json.



```

"Role": "",
"AllowedHosts": "",
"Logging": {
  "LogLevel": {
    "Default": "Warning",
    "Microsoft": "Warning",
    "Microsoft.Hosting.Lifetime": "Information"
  }
},
"EventLog": {
  "LogLevel": {
    "Default": "Warning",
    "Microsoft.Hosting.Lifetime": "Information"
  }
},
"ReverseProxy": {
  "Endpoints": {
    "http": {
      "Url": "http://0.0.0.0:8080",
      "Protocol": "HttpAndHttps"
    },
    "https": {
      "Url": "https://0.0.0.0:8080",
      "Protocol": "HttpAndHttps",
      "Certificate": {
        "Location": "LocalMachine",
        "Store": "My",
        "Subject": "MNSvo-SHA2-MPOSOffline"
      }
    }
  },
  "Syspro.Gateway.API": {
    "Security": {
      "ReverseProxy": {
        "Enabled": true,
        "Secret": "azXyV90112z1e4lyk5cm0DjBjeZ0VovNDEJ6P7/HUB0Vn9PTCZ/WQzEg9tVW7pdmBqPpe54bbFue9d0X/Vu=="
      },
      "ReverseProxy": {
        "Enabled": true,
        "Secret": "azXyV90112z1e4lyk5cm0DjBjeZ0VovNDEJ6P7/HUB0Vn9PTCZ/WQzEg9tVW7pdmBqPpe54bbFue9d0X/Vu=="
      }
    }
  }
}

```

- Select Deploy and Start All Containers.
- Confirm by clicking Yes when prompted to update the reverse proxy file.
- Get containers.
- Click on Monitor Containers to see the count of how many users access the container.

SYSPRO WebUI Container Controller

Logged on as: luyanda.kunene@syspro.com for Company: S8954 - SYSPRO CORPORATE SERVICES Version: 1.0.0.71 Settings Logout

Get Images sysproacr.azurecr.io/syspro8_webui_2025 - OS Build: 10.0.20348.3807 Pull Save Load Number of Containers: 15

ImageID	Tags	SizeInMB	Inspect	Delete	VersionMsg
3e18426ec777	sysproacr.azurecr.io/syspro8_webui_2025:10.0.20348.3807	12147	Click to Inspect	Click to Delete	Latest Version

Selected Image: 3e18426ec777 Deploy Container Deploy ALL Containers Deploy and start ALL Containers

Get Containers Stop ALL Containers Start ALL Containers Monitor Containers 1

ContainerID	Name	State	Status	ImageID	ContainerIP	Logs	Action
cf504629b80d	SYSAVTCNTR003	running	Up 6 hours	3e18426ec777	172.30.181.36	Get Logs	Stop
9dedd10b4d3a	SYSAVTCNTR002	running	Up 6 hours	3e18426ec777	172.30.186.51	Get Logs	Stop
7e87fbf218ea	SYSAVTCNTR001	running	Up 6 hours	3e18426ec777	172.30.187.81	Get Logs	Stop

Container Monitor ? X

Automatic Refresh Every: 10 Seconds

Containers 2

001	002	003
0 / 10	0 / 10	0 / 10

Avg sessions per container: 0.0

Total Sessions/Containers: 0 / 3

Refreshing in 3 seconds...

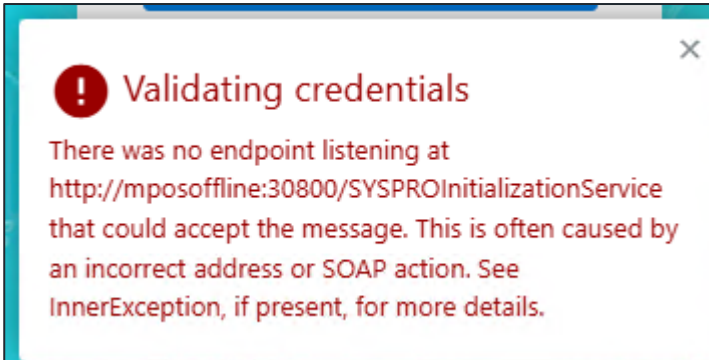
SYSPRO Cluster Service Config File C:\ProgramData\SYSPRO\Application.Gateway\appsettings.reverseProxy.json Update Config File View

Connected to npipe://./pipe/docker_engine 3 container(s) found...

- And Open POS > Login for the containers to start counting.

12. Troubleshooting

- If you encounter an error indicating that the Application Gateway is missing:



- Install the Application Gateway.
- Update the reverse proxy file (appsettings.reverseProxy.json).

Logged on as: luyanda.kunene@syspro.com for Company: S8954 - SYSPRO CORPORATE SERVICES Version: 1.0.0.72 [Settings](#) [Logout](#)

[Get Images](#) sysproacr.azurecr.io/syspro8_webui_2025 - OS Build: 10.0.20348.3807 [i](#) [Pull](#) [Save](#) [Load](#) Number of Containers: 3

ImageID	Tags	SizeInMB	Inspect	Delete	VersionMsg
3e18426ec777	sysproacr.azurecr.io/syspro8_webui_2025:10.0.20348.3807	12147	Click to Inspect	Click to Delete	Latest Version

Desktop Heap: 768, 16

Selected Image: 3e18426ec777 [Deploy Container](#) [Deploy ALL Containers](#) [Deploy and start ALL Containers](#) [Stop and Remove All Containers](#)

[Get Containers](#) [Stop ALL Containers](#) [Start ALL Containers](#) [Monitor Containers](#) Status filter: All

ContainerID	Name	State	Status	ImageID	ContainerIP	Action	Script
e15ed18ed175	SYSA/TCNTR004	created	Created	3e18426ec777		Start	
dce3b0903c7b	SYSA/TCNTR003	running	Up 4 days	3e18426ec777	172.28.128.7	Stop	Run PowerShell
a6a8dcf23c29	SYSA/TCNTR002	running	Up 4 days	3e18426ec777	172.28.129.184	Stop	Run PowerShell
8efedc008cc0	SYSA/TCNTR001	running	Up 4 days	3e18426ec777	172.28.137.113	Stop	Run PowerShell

SYSPRO Cluster Service Config File C:\ProgramData\SYSPRO\Application.Gateway\appsettings.reverseProxy.json [Update Config File](#) [View](#)

- Click on Monitor Containers to see the count of users accessing the container.
- Open PoS for the counting to start.



syspro.com

Copyright © SYSPRO 2025. All rights reserved.
All brand and product names are trademarks or registered trademarks of their respective holders.