

Installing Syspro Containers for Point of Sale

Syspro 8

Reference Guide

Published: October 2026



syspro

CONTENTS

Article: Container Installation and Configuration for Point of Sale

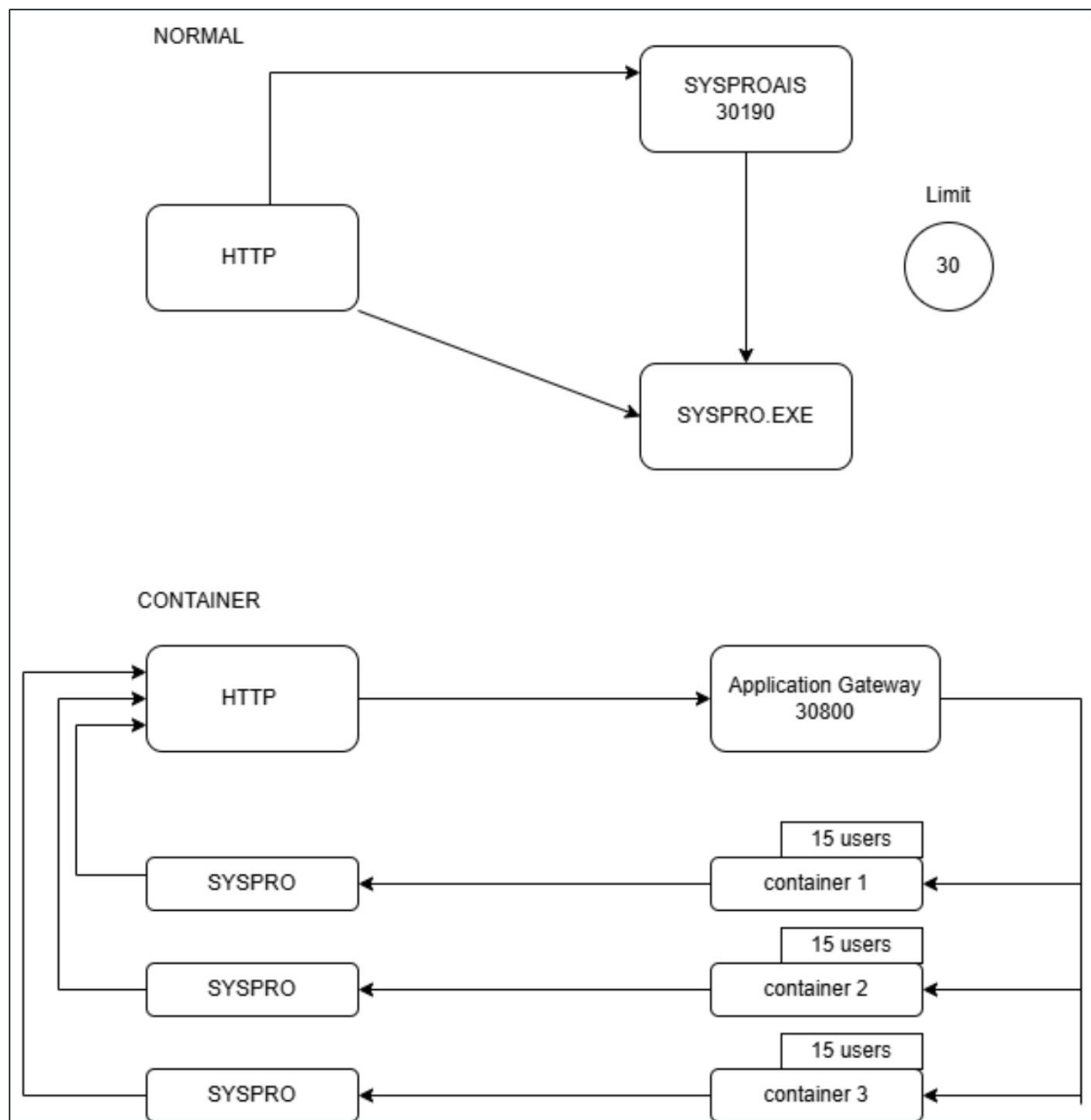
Installation Process Diagram.....	1
Enable containers in Server Manager	2
Docker Installation.....	5
Verification of Docker Installation	6
Syspro Avanti Initialization Service Installation.....	7
Container Installation and Configuration	8
Point of Sale Configuration files	17
Container Deployment.....	19
Troubleshooting.....	21

Container Installation and Configuration for Point of Sale

This document provides step by step information on installing and configuring containers for Point of Sale.

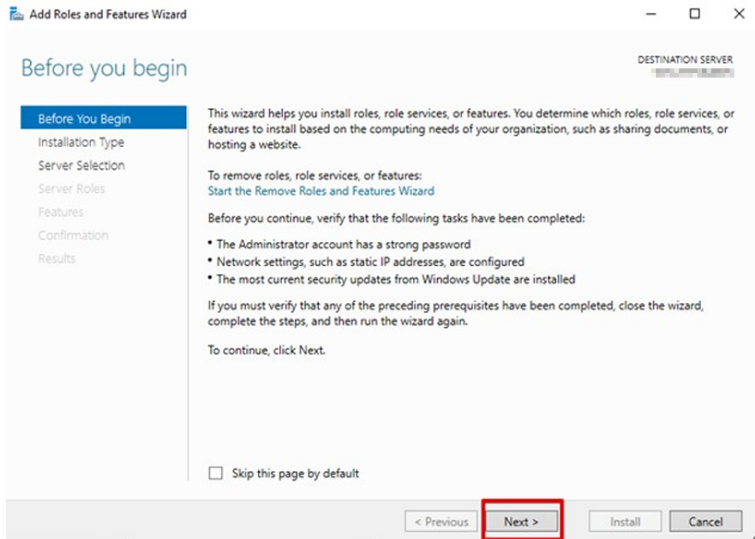
Installation Process Diagram

The following diagram depicts the installation process of Syspro containers.

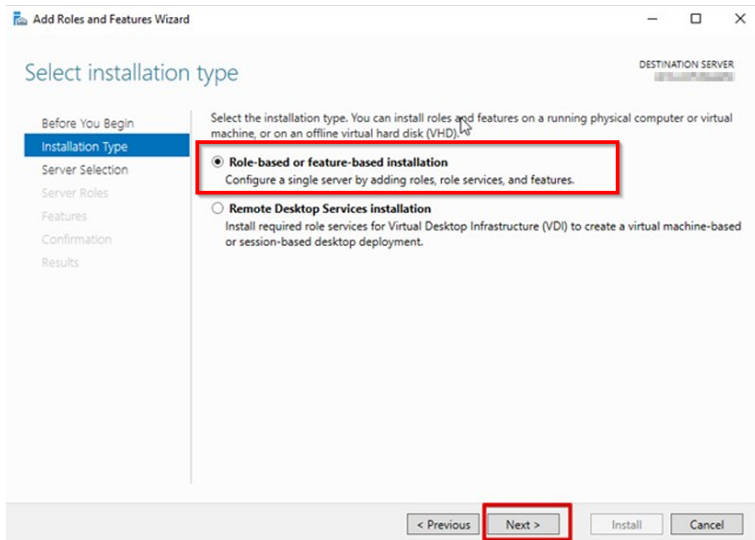


Enable containers in Server Manager

1. Open Server Manager.
2. Select Add Roles and Features option.
3. Verify prerequisites and click Next.

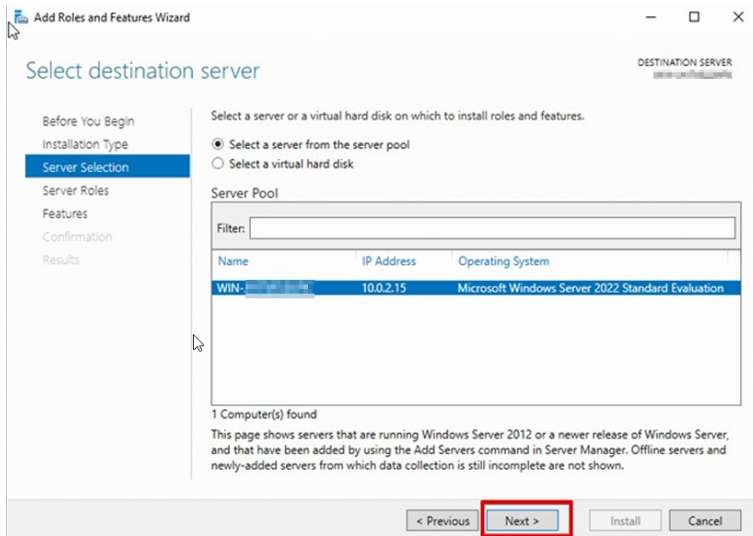


4. Select Role-based or Feature Based Installation Option.



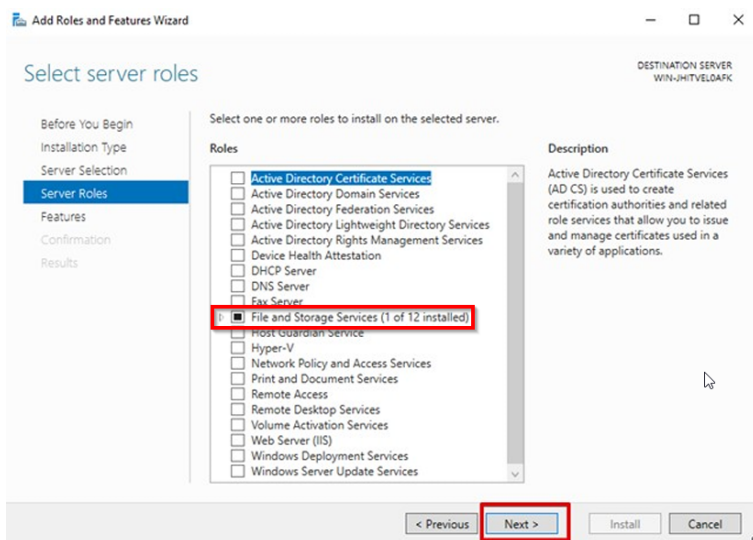
5. Select Server from the server pool option.

Select the appropriate server and click Next.



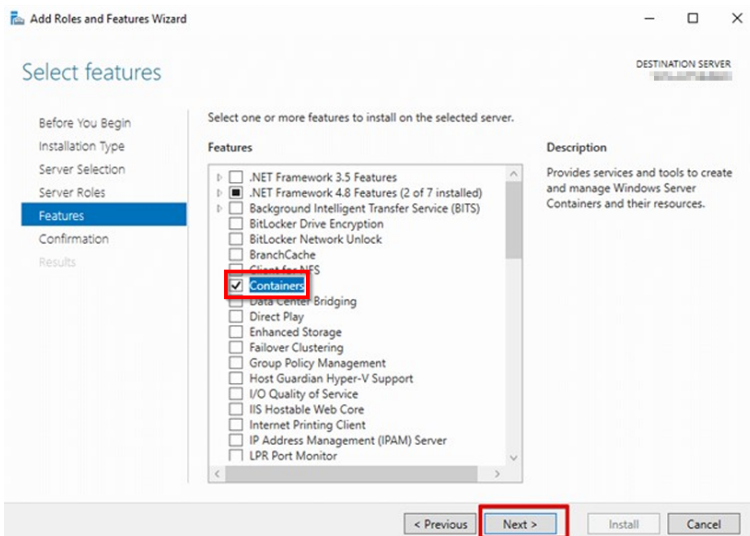
6. From Server Roles, ensure that the default is selected – File and Storage Services (1 of 12 installed).

Click on Next.

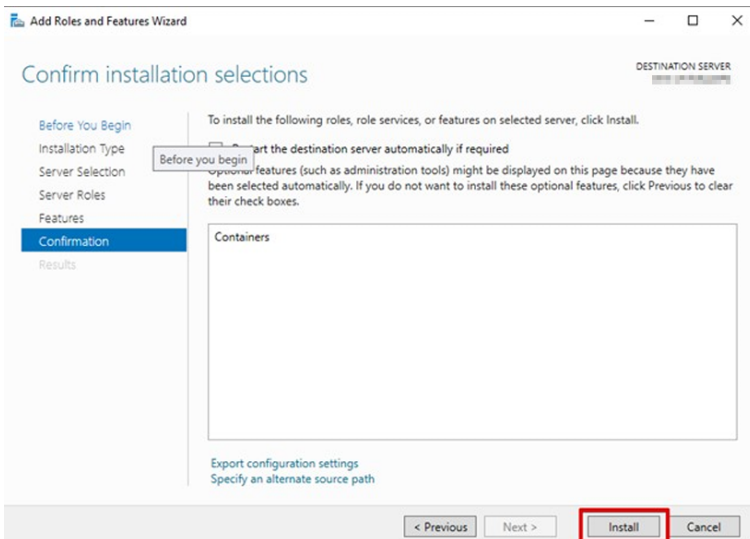


7. From Select Features, enable the Containers item feature.

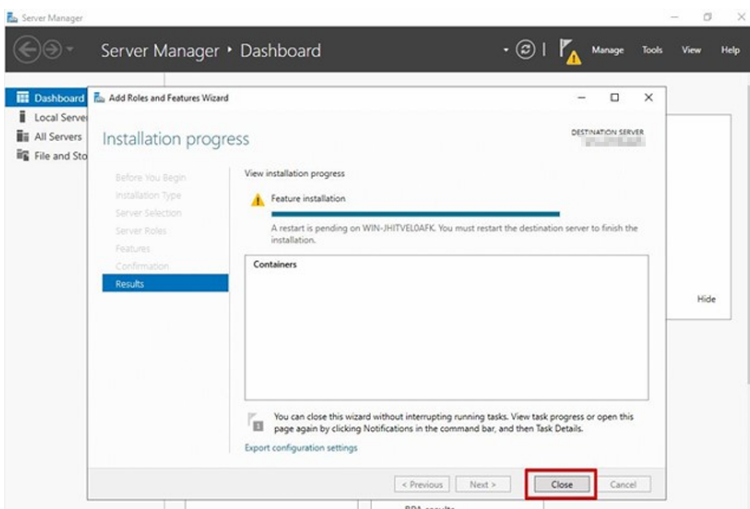
Click Next.



8. Select Install to proceed.



9. Once the installation is complete, close the wizard and restart the server.



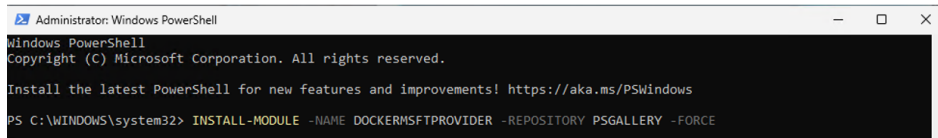
Docker Installation

1. Install the docker module provider.

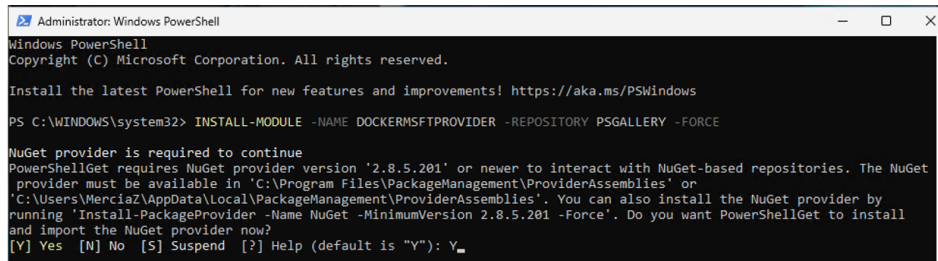
Run Windows Powershell as an Administrator.

Enter the following command:

```
INSTALL-MODULE -NAME DOCKERMSFTPROVIDER -REPOSITORY PSGALLERY -FORCE
```



Enter "Y" to install and import the NuGet provider.



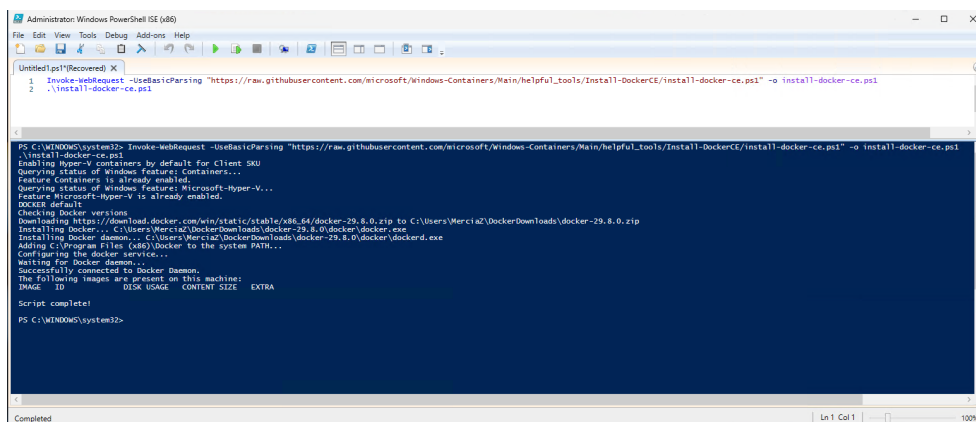
2. Install the latest docker application version.

Run Windows Powershell as an Administrator.

Enter the following command:

```
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
```

For additional information view [Prepare Windows operating system containers | Microsoft Learn](#).



During the installation you may be prompted to restart the pc / server / vm.

After the restart, the installation will continue.

Verification of Docker Installation

1. Confirm the Docker's installed version.

```
Administrator: Windows PowerShell (x86)
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\WINDOWS\system32> Docker --version
Docker version 29.8.0, build 88096ef
PS C:\WINDOWS\system32>
```

2. Confirm the Container's features are installed:

Get-WindowsOptionalFeature -Online -FeatureName *Container* (Server 2025)

Get-WindowsFeature -Name Containers (Server 2022)

```
Administrator: Windows PowerShell ISE (x86)
SYSAVRPOSON23

1 Get-WindowsOptionalFeature -Online -FeatureName "Container"

PS C:\WINDOWS\system32> Get-WindowsOptionalFeature -Online -FeatureName "Container"

FeatureName      : Containers
DisplayName       : Containers
Description       : Provides services and tools to create and manage Windows Server Containers and their resources.
RestartRequired  : Possible
State             : Enabled
CustomProperties  : ServerComponent\Description : Provides services and tools to create and manage Windows Server Containers and their resources.
                   ServerComponent\Id : 3028
                   ServerComponent\Type : Feature
                   ServerComponent\UniqueName : Containers
                   ServerComponent\Deployment\UpdateName : Containers
                   ServerComponent\VersionMajor : 10
                   ServerComponent\VersionMinor : 0

FeatureName      : Containers-HNS
DisplayName       :
Description       :
RestartRequired  : Possible
State             : Enabled
CustomProperties  : ServerComponent\Parent : Containers
                   ServerComponent\Type : Feature
                   ServerComponent\UniqueName : Containers-HNS
                   ServerComponent\Deployment\UpdateName : Containers-HNS
                   ServerComponent\VersionMajor : 10
                   ServerComponent\VersionMinor : 0

FeatureName      : Containers-SDN
DisplayName       :
Description       :
RestartRequired  : Possible
State             : Enabled
CustomProperties  : ServerComponent\Parent : Containers
                   ServerComponent\Type : Feature
                   ServerComponent\UniqueName : Containers-SDN
                   ServerComponent\Deployment\UpdateName : Containers-SDN
                   ServerComponent\VersionMajor : 10
                   ServerComponent\VersionMinor : 0
                   ServerComponent\MutualExclusion\MutualExclusionGroupName : NetworkVirtualization

PS C:\WINDOWS\system32>
```

3. Verify Docker service is running.

Get-Service Docker

```
Administrator: Windows PowerShell ISE (x86)
File Edit View Tools Debug Add-ons Help

Untitled1.ps1* X
1 Get-Service Docker

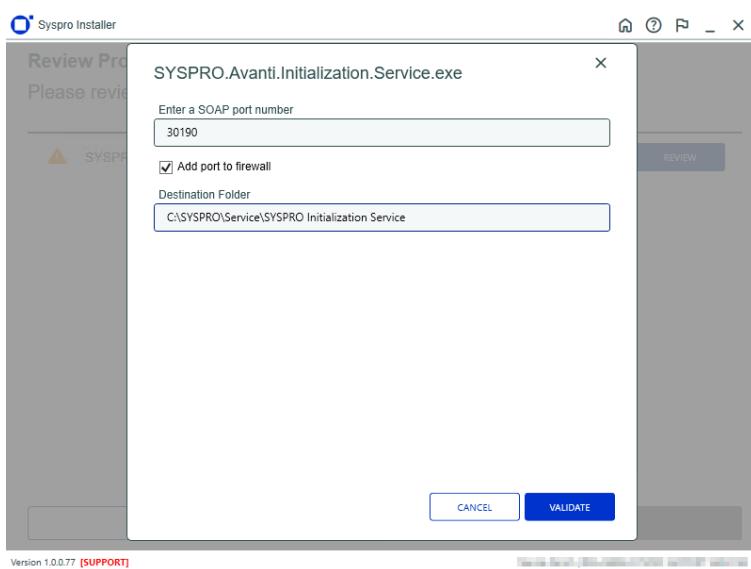
PS C:\WINDOWS\system32> Get-Service Docker

Status Name      DisplayName
-----
Running Docker    Docker Engine

PS C:\WINDOWS\system32>
```

Syspro Avanti Initialization Service Installation

1. If Syspro 8 Avanti Initialization Service has been installed, uninstall the Syspro 8 Avanti Initialization Service. By default the service was installed to a location not visible to the containers upon startup. Hence the requirement to uninstall and reinstall the service to a folder that is accessible by the containers.
2. Run the Syspro Installer Application.
3. The Syspro Avanti Initialization Service must be installed where the container can access it. When the container starts, it mounts C:\SYSPRO as a volume and can therefore create an instance of the initialization service.
 - a. Create a new folder in the Syspro installation folder and rename it to Service.
 - b. Install the Syspro 8 Avanti Initialization service under the main Syspro Installation, e.g. C:\SYSPRO\Service\SYSPRO Initialization Service.



4. Additional Installations (If not already installed).
 - a. Install the Syspro Application Gateway service (if not already installed).

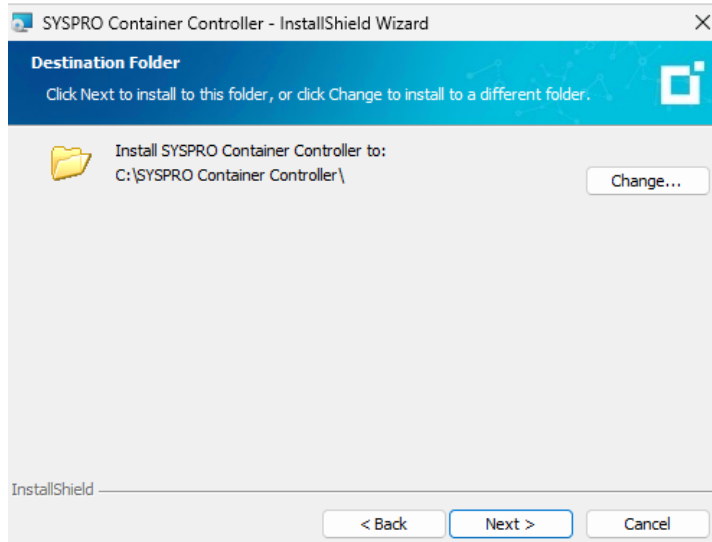


NOTE: Enable the “Use Application Gateway Service” option in Syspro’s Setup Options (Setup Options > System Setup > connectivity).

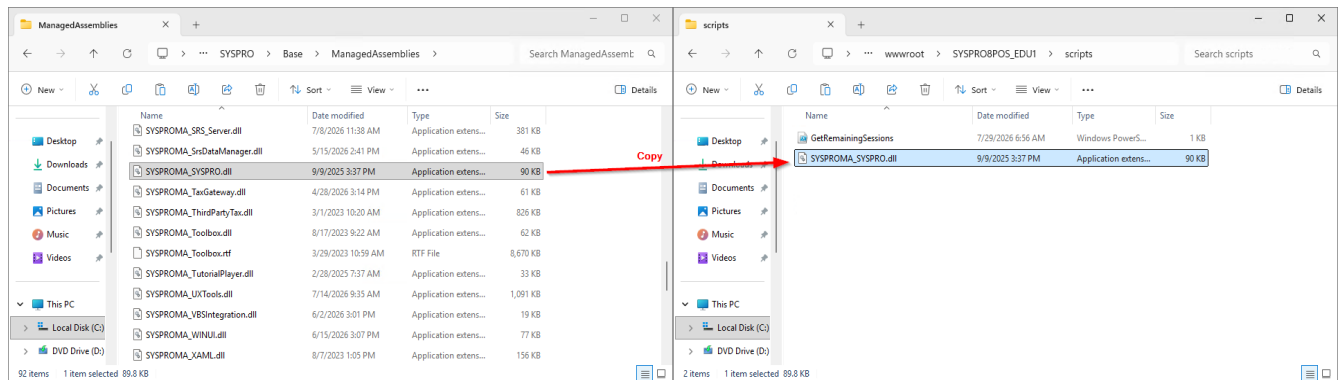
Container Installation and Configuration

1. Download the Syspro Container Controller from the following URL:
<https://syspro8install.azureedge.net/containerfiles/SYSPRO.Container.Controller.exe>

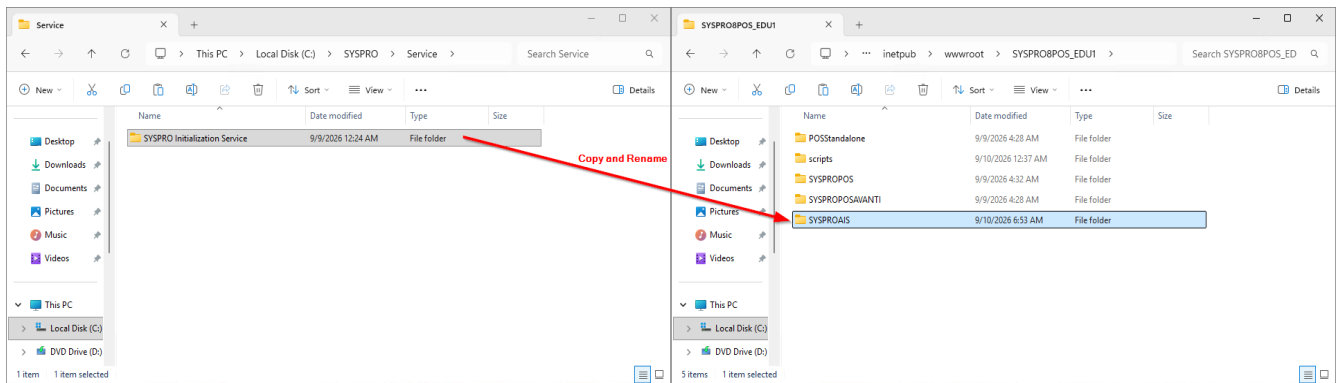
Install the Container Controller.



2. Once the Container Controller has been installed:
 - a. Copy the SYSPROMA_SYSPRO.dll file from the Base\Managed Assemblies folder in the Syspro installation folder to the scripts folder in the Point of Sale installation folder.



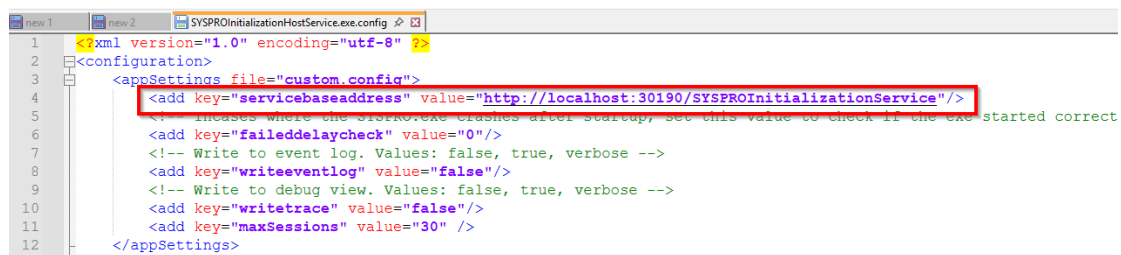
- b. Copy the SYSPRO Initialization Service Folder from the Service folder in the Syspro installation folder to the Point of Sale installation folder.



- c. Open the SysproInitial.exe.config file with a text editor.

Update the servicebaseaddress value to localhost.

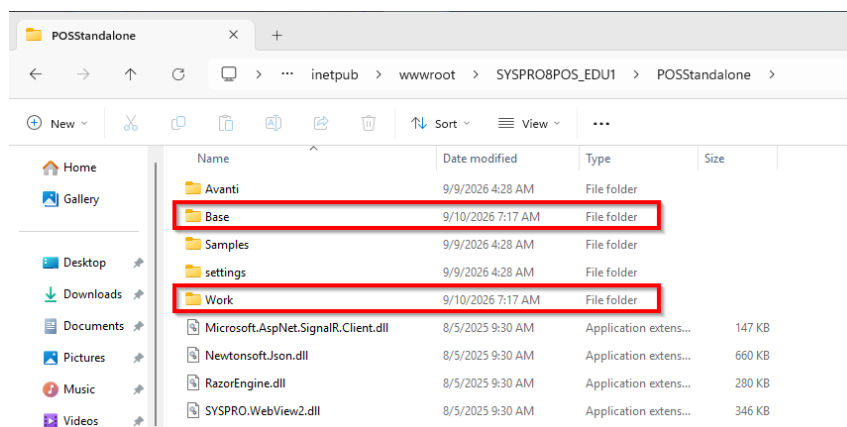
Save if changes were made.



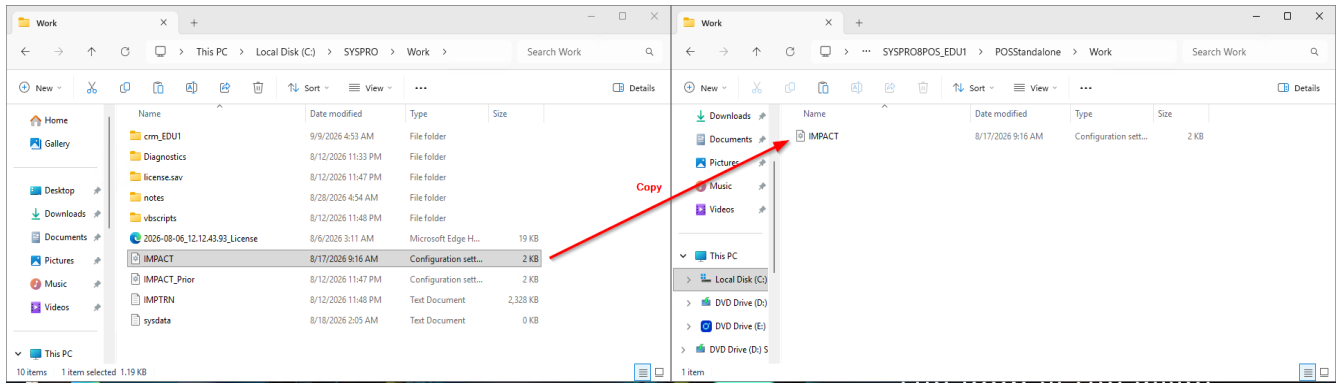
- d. Create 2 new folders in the Point of Sale Installation Folder > POSStandalone:

i. Base

ii. Work

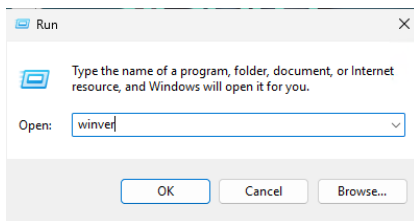


- e. Copy the IMPACT.ini configuration file from the SYSPRO\Work folder and paste it into the Work folder created in the Point of Sale Installation folder > POSStandalone > Work.



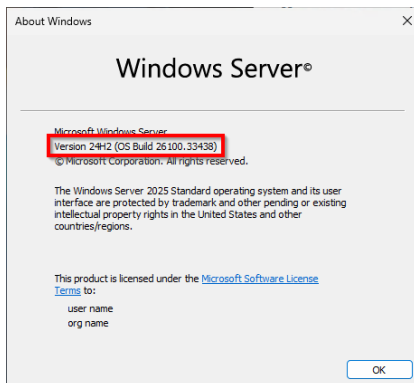
3. Confirm the Windows Operating System Version.

Press the Windows Key + R to launch the Run program.
Enter winver and click OK.



The Windows version and build will be displayed.

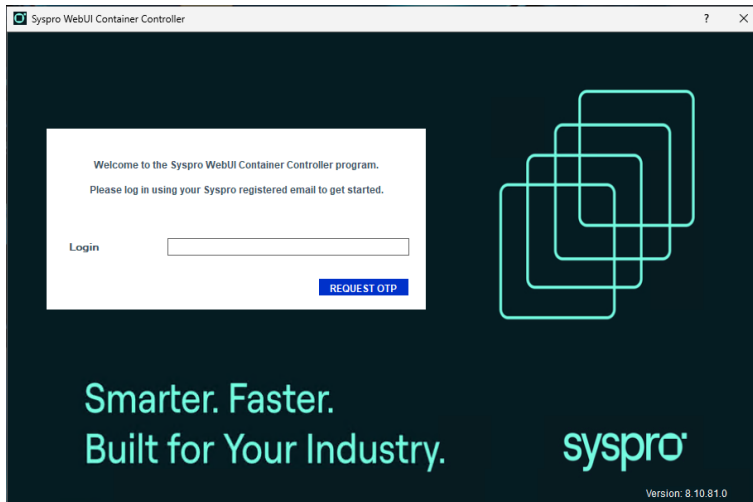
Take note of the Build version. The build version is used to select the correct Container image build.



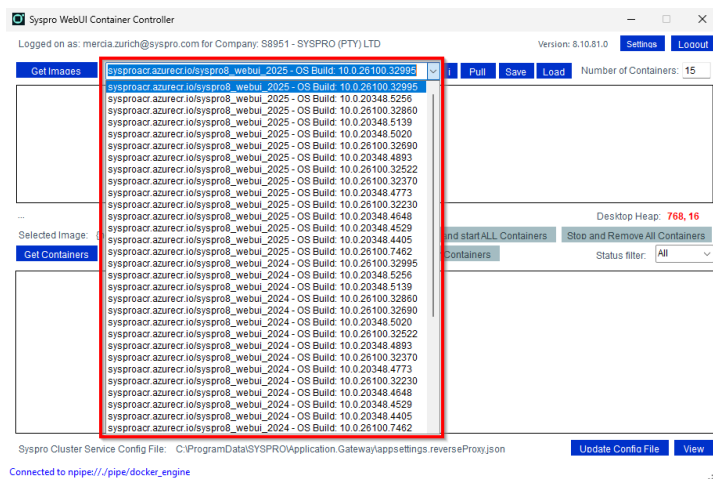
The Build includes the Operating System Version:
26100.XXXX represents Server 2025.

20348.XXXX represents Server 2022.

4. Launch the Syspro Web UI Container Controller Program and login with your Syspro Registered email address.



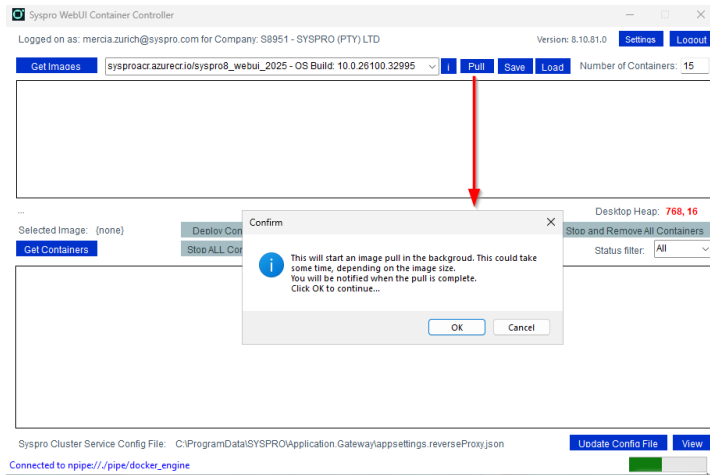
- Once the Syspro Web UI Container Controller launches select an image build from the dropdown list. Please ensure that the build noted in the image corresponds with the Windows build.



The Build includes the Operating System Version:
XX.X.26100.XXXX represents Server 2025.

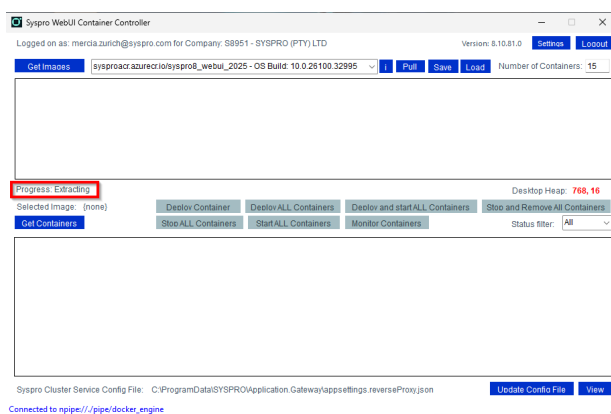
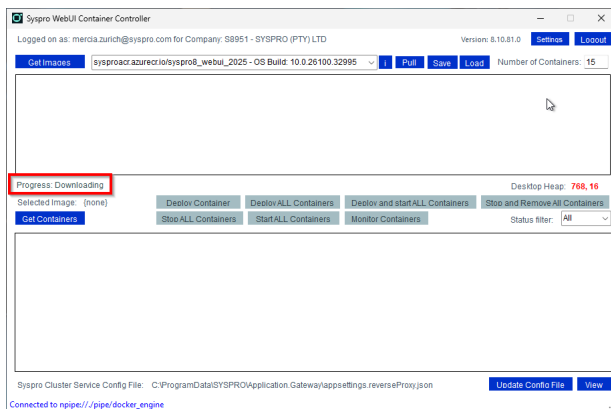
XX.X.20348.XXXX represents Server 2022.

- Click on Pull to start an image pull of the selected image.
Confirm the image pull by clicking OK.

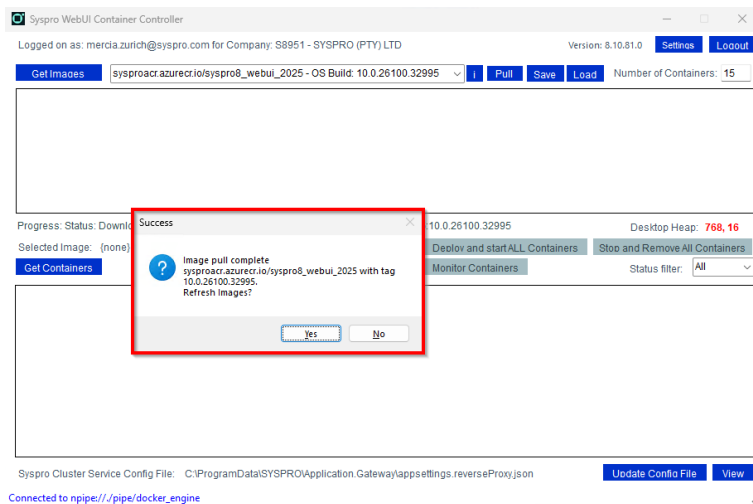


Please note that the image pull can take some time.

The progress will be indicated in the Controller.



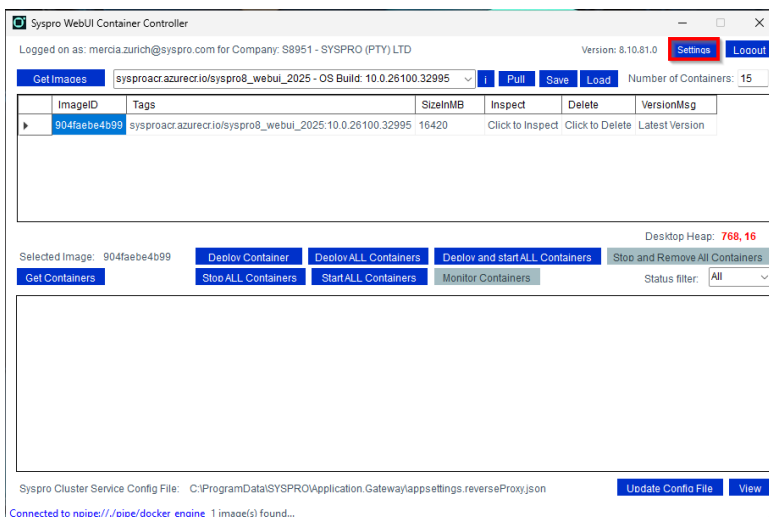
A notification will be displayed to advise that the image pull is complete.



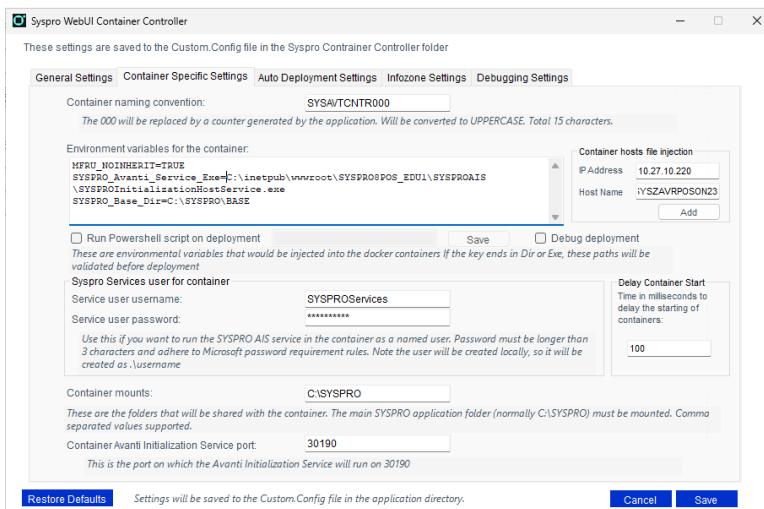
Click on Yes to proceed to refresh the images.

7. Container Settings configurations:

a. Click on Settings.



The settings page is displayed.

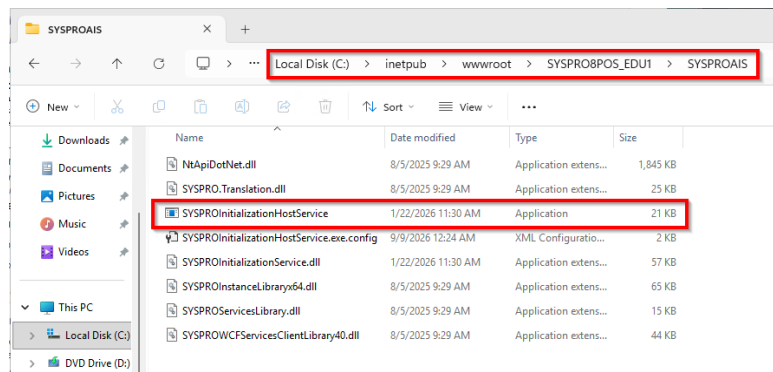


Container Requirements

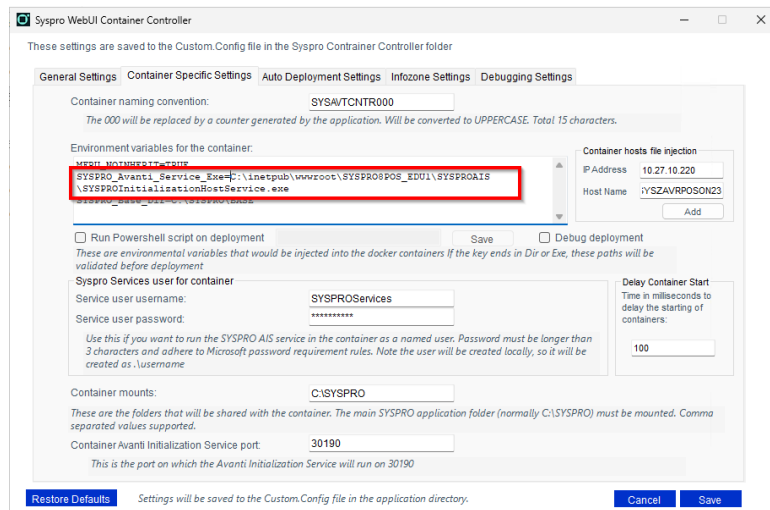
SYSPROServices account: Administrative with log on as service rights.
Create the account on the Application Server and the SQL Server.

Navigate to the Syspro Avanti Initialization Service folder in the Point of Sale Installation folder.

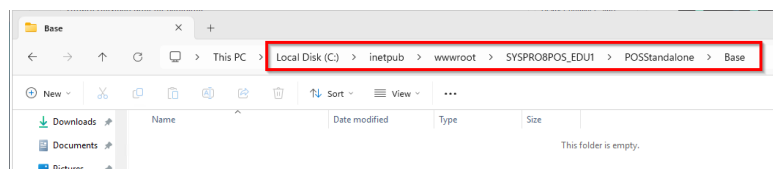
Copy the path of the SysproInitializationHostService.exe file in the folder.



Paste the path in the Environment Variables section for SYSPRO_Avanti_Service_Exe.



Copy the path of the Base folder in the Point of Sale Installation folder > POSStandalone.



Paste the path in the Environment Variables section for SYSPRO_Base_Dir.

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:

MSDU_MAINHERIT=TRUE
 SYSPRO_Avanti_Service_Exec=C:\inetpub\wwwroot\SYSPROSPoS_EDU1\SYSPROAIS
 SYSPROInitializationHostService.exe
 SYSPRO_Base_Dir=C:\inetpub\wwwroot\SYSPROSPoS_EDU1\FOSStandalone\Base
 syspro_host=10.27.10.220 SYSZAVRPOS0N23

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.

Add the IPv4 address and hostname to the Environment Variables section using the Container hosts file injection function.

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:

MSDU_MAINHERIT=TRUE
 SYSPRO_Avanti_Service_Exec=C:\inetpub\wwwroot\SYSPROSPoS_EDU1\SYSPROAIS
 SYSPROInitializationHostService.exe
 SYSPRO_Base_Dir=C:\inetpub\wwwroot\SYSPROSPoS_EDU1\FOSStandalone\Base
 syspro_host=10.27.10.220 SYSZAVRPOS0N23

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.

The Ipv4 address can be found running Command Prompt / Windows powershell and execute the ipconfig command:

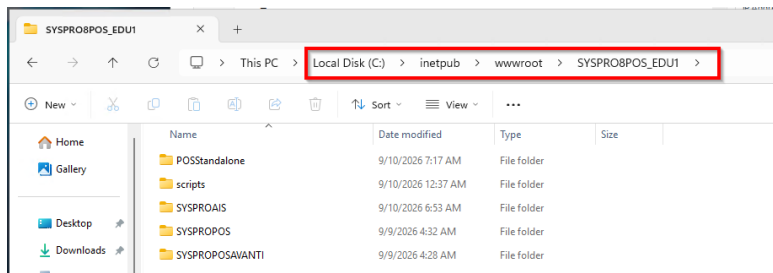
```
C:\>ipconfig

Windows IP Configuration

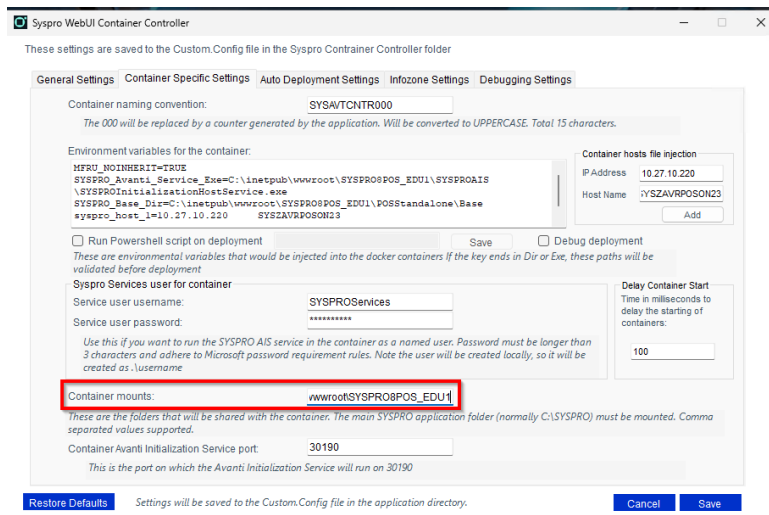
Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::...
    IPv4 Address. . . . . : 10.27.10.220
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 
```

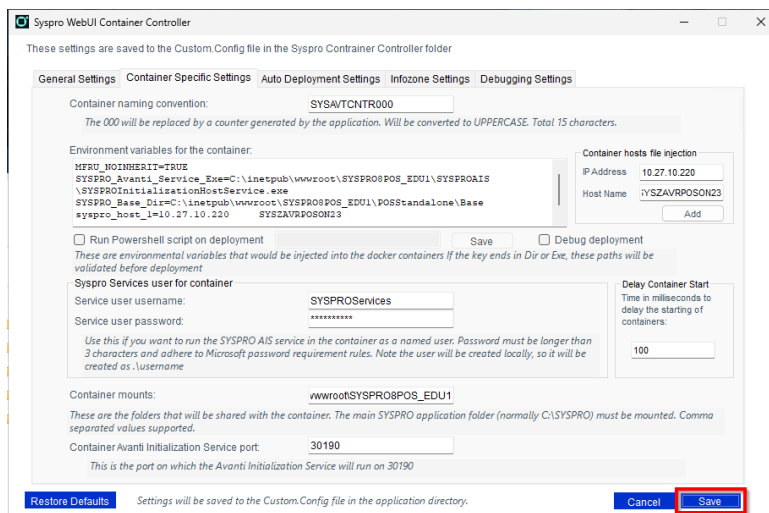
Copy the Syspro Point of Sale Installation location.



Paste the path into the Container mounts location:

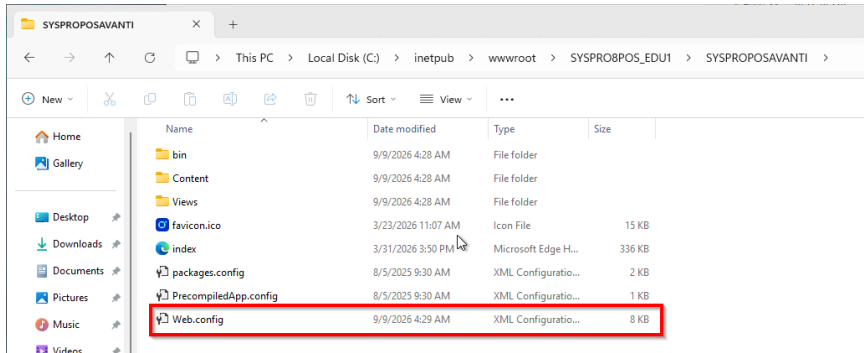


Save the settings.

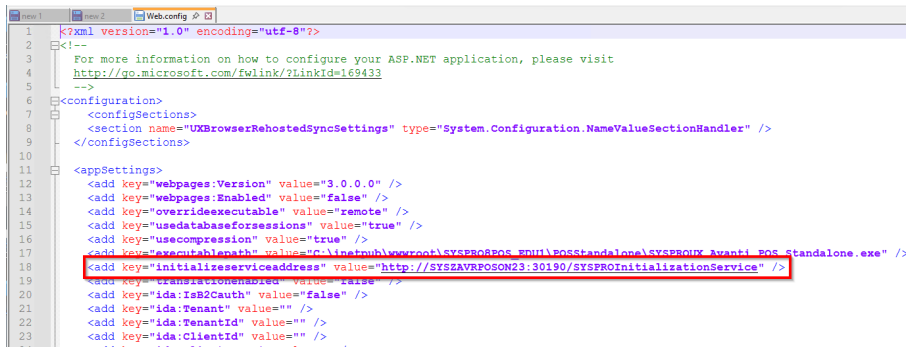


Point of Sale Configuration files

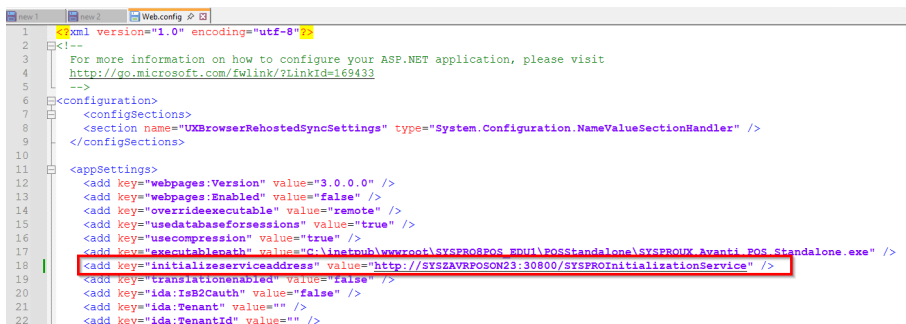
1. Navigate to the SYSPROPOS AVANTI folder in the Point of Sale Installation folder.
2. Locate the Web.config file.



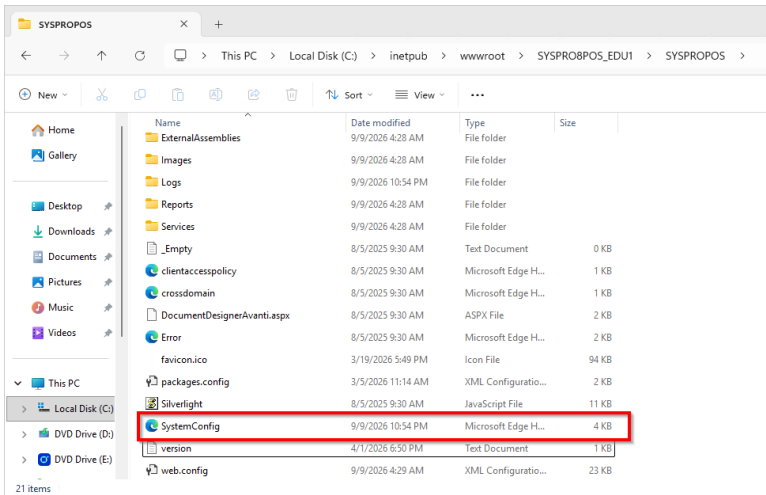
- a. Open the Web.config file with a text editor.



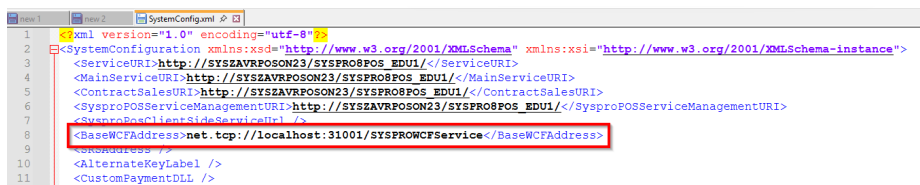
- b. Update the port for the initializeserviceaddress from 30190 to 30800.



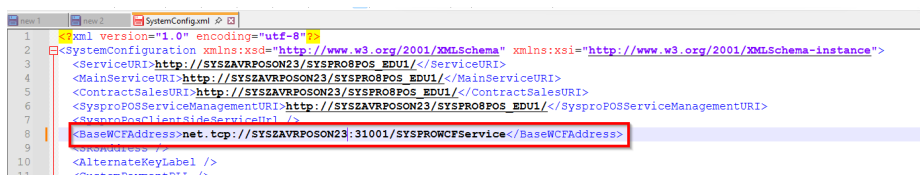
- c. Save the change.
3. Navigate to the SYSPROPOS folder in the Point of Sale Installation Folder.
 4. Locate the SystemConfig.xml file.



- a. Open the SystemConfig.xml file with a text editor.



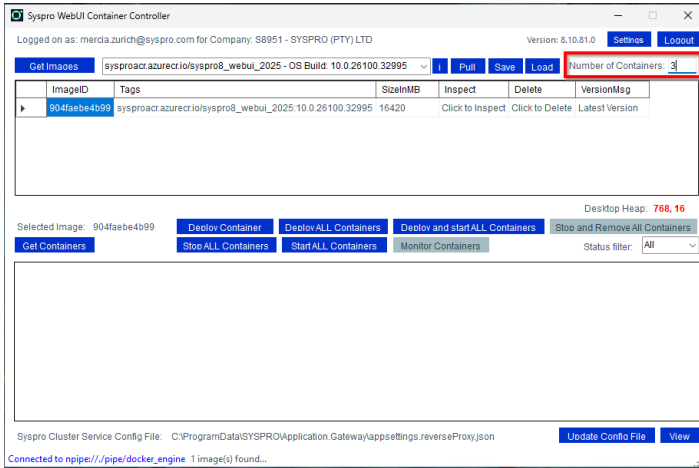
- b. Update the BaseWCFAddress from the default to the servername.



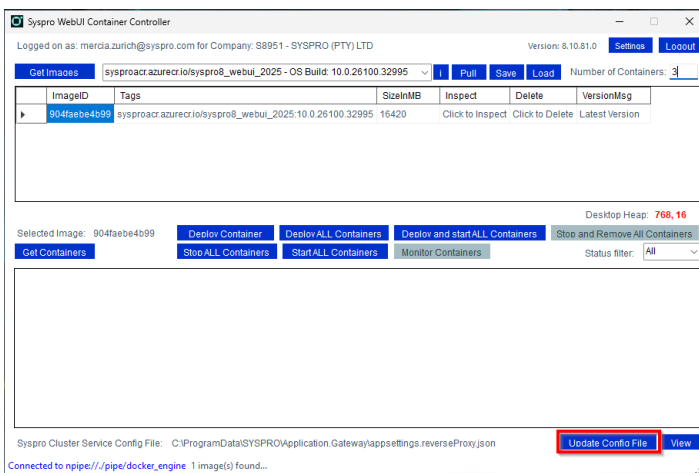
- c. Save the change.

Container Deployment

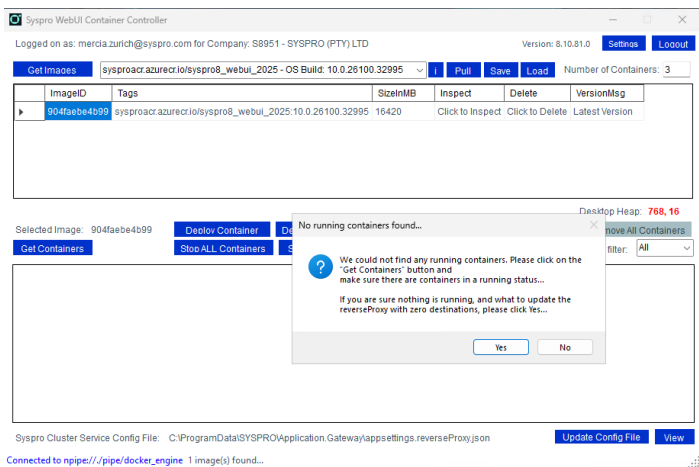
1. Set the required number of Containers to deploy.



2. Select to Update the Config File.

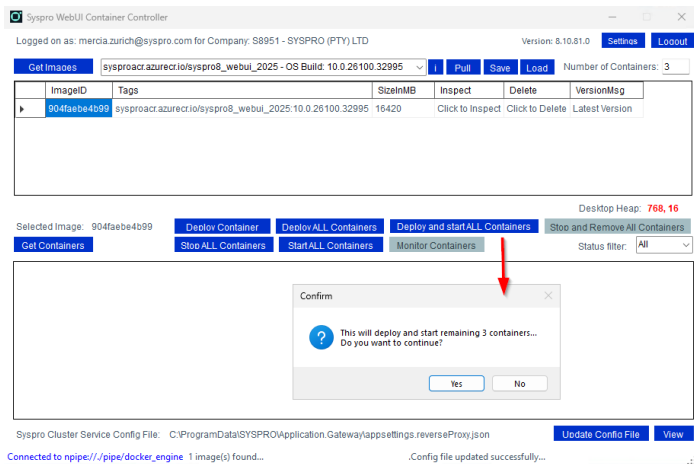


3. Select Yes to update the reverse proxy settings.

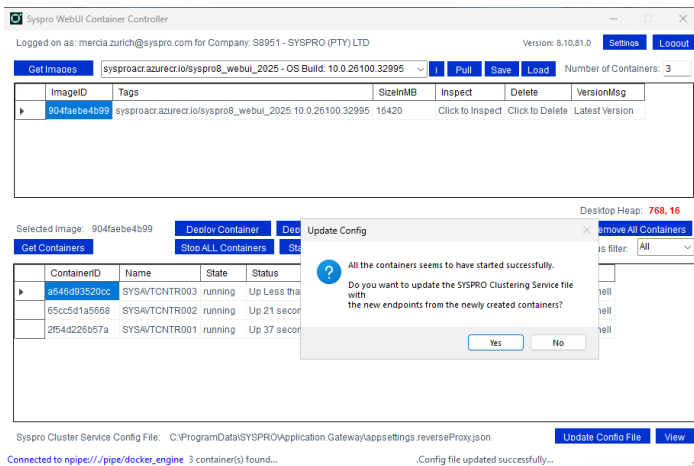


4. Select Deploy and start containers to deploy the required number of containers.

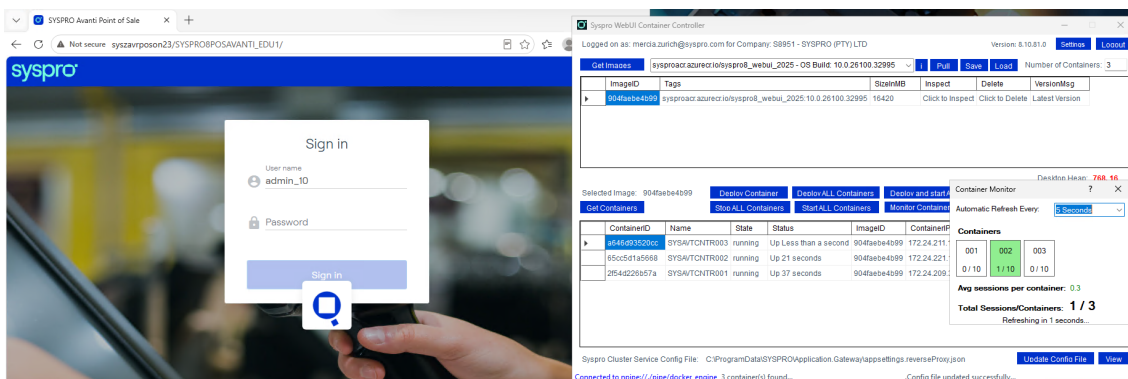
Click Yes to confirm.



5. Select Yes to update the Syspro Clustering Service file with the new endpoints.



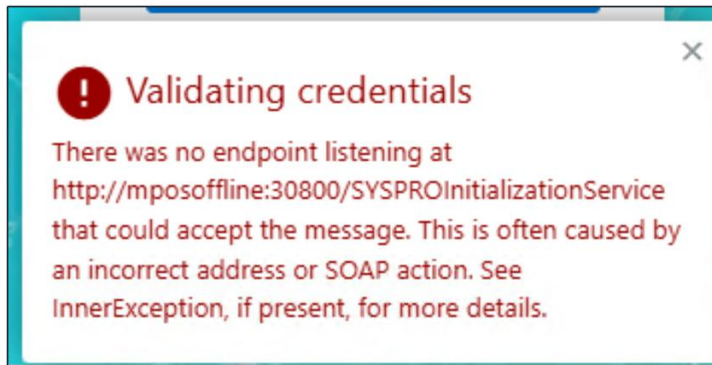
6. You can now log into Syspro Point of Sale. Use the Container monitor to view sessions per active container.



Troubleshooting

1. Validating Credentials: There was no endpoint listening at `http://{ServerName}:30800/SYSPROInitializationService` that could accept the message. This is often caused by an incorrect address or SOAP action. See `InnerException`, if present, for more details.

Error



Resolution:

Install the Application Gateway.

Update the reverse proxy file (`appsettings.reverseProxy.json`) in the Container Controller.

Launch the Monitor Containers function to view the count of users logging into Point of Sale.