



# Ostia Portus

## Server and Control Centre Installation

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This document applies to Ostia Portus 2012-12-17 15:47:31 (MET) and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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# Installation

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The Portus installation process uses the Eclipse based "Find and Install" dialog to download and deploy the required installation files. If you are new to Eclipse, see the Introduction to Eclipse section.

- [Latest Release Notes](#)
- [Installation Prerequisites](#)
- [Control Centre installation - all platforms](#)
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- [Server Installation Procedure - All other platforms](#)
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# 1 Installation Prerequisites

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## Overview

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The Portus software consists of two components:

- The Portus Server component runs locally to your "resource". In this instance a resource is defined as an Adabas, MySQL, PostgreSQL or SQL Server database. It can also be defined as a Natural program, an LE program, a shared library or a DLL.
- The Portus Control Centre component is a central GUI used to configure and monitor one or more Portus Servers. This component runs within the Eclipse IDE, and must be run on Linux or Windows.

## Portus Control Centre prerequisites

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- On Linux, the GTK2 Windowing system and its dependencies.
- A Java Runtime Environment (minimum: JRE 1.6)

## Portus Server Operating System Prerequisites

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Portus is currently supported on the following platforms:

- Windows 2003/2008 Server (standard edition and enterprise edition)
- Windows XP Professional
- Windows 2000 Professional, Server and Advanced Server
- Windows Vista
- Windows 7



**Important:** All Windows 64-bit platforms are supported by running the SOA Gateway in 32-bit compatibility mode.

- Linux x86 (32-bit)
- Linux x86 (64-bit)
- Linux s390x (64-bit)
- AIX 5.3 / 6.1 (64-bit)
- Solaris 9/10 SPARC (64-bit)
- HP-UX 11i v2 Itanium (64-bit)



- z/OS
- z/VSE

## **z/OS**

A userid and password that can be used on the z/OS system.

Appropriate RACF/ACF2/TOP-SECRET access to create datasets.

Portus installation requires that server files be sent to the z/OS host, therefore an accessible ftp server must be running on this host.

A free TCP/IP port that can be used (One per Portus)

The ability to add a started task or submit a long running job.

Adabas databases accessed via Portus *must* be UES-enabled.

The Adabas WAL813.L003 as well as WAL813.LOAD (or above) libraries *must* be in the STEPLIB chain, otherwise no access to Adabas will be possible from the Portus server.

Under certain circumstances, the Adabas link routines may not pick up the SVC and DBID values specified via DDCARD. In this case the SVC number and Database Id must be zapped into ADALNKR, as described in the Adabas installation documentation, and the modified ADALNKR made available in a STEPLIB library ahead of the one containing the original, unzapped version.

## **Windows**

Microsoft Visual C++ 2005 Libraries. The redistributable can be downloaded [here](#)

Microsoft Visual C++ 2008 Libraries. The redistributable can be downloaded [here](#)

It is strongly recommended that you restart Windows after this installing this redistributable.

## **Linux**

The Portus installation scripts require the bash shell.

The Portus installation requires that server files be sent to the target machine, therefore *an accessible ftp or SSH server must be running on the target machine.*

## Additional Software Prerequisites

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Portus requires the following software versions

- Minimum Adabas v5 on OpenSystems platforms (Windows / Linux / Unix); Adabas 6.1.3 + Adabas Client (ACL) 6.2.1.8 required for LOBs (large objects) access
- Any supported UES-enabled Adabas version on the mainframe (v7.4 and higher); Adabas 8.1 or higher required for LOB access
- iTrac ADAOS-3371 must be applied
- To use any relational database driver (MySQL/Oracle/Postgres/etc) ODBC must be installed, and the appropriate driver interface for your database (e.g. MyODBC/Oracle ODBC/psqlodbc/etc) must also be installed.

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## Prerequisites

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Java is required to run the **Eclipse SDK**

If you already have *Java Runtime Environment (JRE, v1.6 or higher)* installed, you may skip this step.

To find out what level of java you have installed, run the command `java -version` from either a shell ( Unix/Linux) or command box (Windows) depending on your system.

If Java is not installed already in your environment, follow these steps

- Install the latest version from [here](#).
- The minimum version, JRE 1.6 is available [here](#)
- Find the "Java Runtime Environment (JRE)" and download it.
- Accept the license agreement, and choose the correct package for your platform.
- Start the Java installer (for example double-click) and follow the instructions.

The Java download site provides detailed install instructions.

- Once the installer has finished, Java is installed in your environment.

## Download and install Eclipse

---

The Eclipse OpenSource framework forms the base for the Portus administration and monitoring tool, the 'Control Centre'.

Eclipse 3.6 (or higher) is required to run the Portus Control Centre. If you have a valid copy of Eclipse installed already, you may skip this step.

Steps required to install the Eclipse framework:

1. Download *Eclipse version 3.6* for your environment :

for [Windows x86](#)

for [Windows x86-64](#)

for [Linux x86 GTK2](#)

for [Linux x86-64 GTK2](#)

2. Unzip the downloaded packages, this will create a directory structure under a top-level directory named 'eclipse', at the selected file system location. for example C:\eclipse on Windows when unzipping into C:\, or /user/eclipse on Unix/Linux if the selected location was /user

3. Start Eclipse - 'eclipse.exe' on Windows, './eclipse' on Unix/Linux, from the top-level eclipse directory.

If you are new to Eclipse, please take the 'Getting started with Eclipse' tour before continuing.

## Install the Portus Control Centre from an Update Site

---

- Start the Update Manager, which can be found on the Eclipse main menu under **Help -> Install new software**.



**Note:** As the Eclipse Update Manager may need to get to an external site, you may have to specify a HTTP proxy in order to access it from an intranet. Instructions on how to set the HTTP proxy can be found in the Troubleshooting section.

- In the **Work with** text box, enter the URL

*<http://cloud.ostiasolutions.com/Portus/panamaUpdateSite>*

- The Update Manager will now contact the update site and display the list of available downloads.
- An empty box next to the features name indicates that the feature is not selected
- Choose a feature by clicking the checkbox beside it. A tick appears in the box beside the features
- You should *always* select the 'Portus Control Centre' category
- You should also select the install kit(s) which correspond to the system that will run the Portus Server
- In some cases, you may also drill down by expanding the feature menu.
- Once finished, click **Next** and the required features will be downloaded.
- Depending on the amount of features selected, and the speed of your connection, this may take some time.
- Once the download has finished, you will be presented with the Legal Notices dialog. Read and Accept the license agreement before continuing.

Check **I accept the terms in the license agreement** and click **Next**

- Review the features to be installed, and click **Finish**
- The selected features will now be installed.
- If the features have not been signed, you will be asked if you wish to continue with the installation.

If the features have been signed, you will be asked if you want to install a digitally signed feature.

Either way, click **OK**

- Restart Eclipse when prompted.

## Next Steps

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Now the Portus Control Centre has been installed. Proceed to the relevant server installation section choosing a link below.

[Server Installation Procedure - Windows](#)

[Server Installation Procedure - z/OS](#)

[Server Installation Procedure - All other platforms](#)

# 3 Control Centre and server package update installation

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**Important:** The information here is for minor updates, e.g. hotfixes, patches, etc. For all major updates (e.g. new software release), Portus should be installed anew, and existing services should be copied using the Control Centre. See here for more details.

The following will guide you through the process of updating your existing Portus Control Centre and Server.

The Portus updates are provided via an Eclipse wizard. When you update your Control Centre (the "Base" feature), the updates are applied after the Find and Install process has finished, and the Eclipse IDE restarts.

Your Portus server will not be updated until you re-deploy the server.

## Using the Eclipse Wizard to find and install updates

---

It is assumed that the Portus Control Centre has already been installed, as detailed in the respective section of this installation guide.

This section describes how to update the Control Centre and also the server installation kit(s) to a level higher than the one currently installed

Eclipse checks a list of available software sites for updates. These sites can be configured by selecting Window -> Preferences -> Install Update -> Available Software Sites.

The Portus entry in this list needs to be checked for updates to function correctly.

Ask Eclipse to check for updates by selecting Help -> Check for Updates. All currently installed features will be checked.

If you wish to install additional server kits for deployment, use Help -> Install New Software.

If newer versions are found, they will be downloaded and you will be asked to restart eclipse.

## Update Server - Windows

---

If you followed the steps above, you now have successfully updated your Control Centre, and have downloaded the updated server installation files.



**Important:** The Portus Server has not been changed at this stage. You need to re-deploy to update the server.



You must uninstall your existing Portus Server before continuing. The uninstall process will not uninstall your existing dataviews and schemas. You may want to make a backup of your existing configuration, and restore it once the new installation is complete.

- Make a backup of %ALLUSERSPROFILE%\Portus 4.2.1\configuration\sampleConfig-win.xml, %ALLUSERSPROFILE%\Portus 4.2.1\configuration\RisarisLicense.xml and C:\Program Files (x86)\Ostia\Portus 4.2.1\Apache22\conf\httpd.conf

Follow the instructions here to uninstall Portus

Now restart the Portus deployment wizard, and follow the normal server installation process. See here for more details


Restore your configuration by putting back the previously saved sampleConfig-win.xml and httpd.conf

Stop and start Portus, and this completes the update.

## Update Server - non-Windows Platforms

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If you followed the steps above, you now have successfully updated your Control Centre, and have downloaded the updated server installation files.


 **Important:** The Portus Server has not been changed at this stage. You need to re-deploy to update the server.

### z/OS Update

You can run a new Portus server side-by-side with the existing server, so long as the datasets names and the port that the server listens on are different.

Alternatively, you can re-deploy a new server, and simply use the new LOAD library in the STEPLIB of your existing installation.

Follow the instructions here to deploy the updated server.

 **Important:** Ensure you choose new dataset names.

Follow the instructions here to copy web services between servers.

### \*nix Platforms

You can run a new Portus server side-by-side with the existing server, so long as the installation location and server port are different.

Alternatively, you can transfer the updated installation files, and provide the *-update* option when starting the *installServer.sh* script.

Follow the instructions here.



**Important:** If you want to create a new installation, ensure you choose a new installation directory, and a server port different from the existing.

Follow the instructions here to copy web services between servers.

If you have updated an existing installation, then the update is now complete.

# 4 Installation Procedure

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The following will guide you through the process of installing and starting the Portus server.

## Using the Deployment Wizard for Linux/Unix type systems

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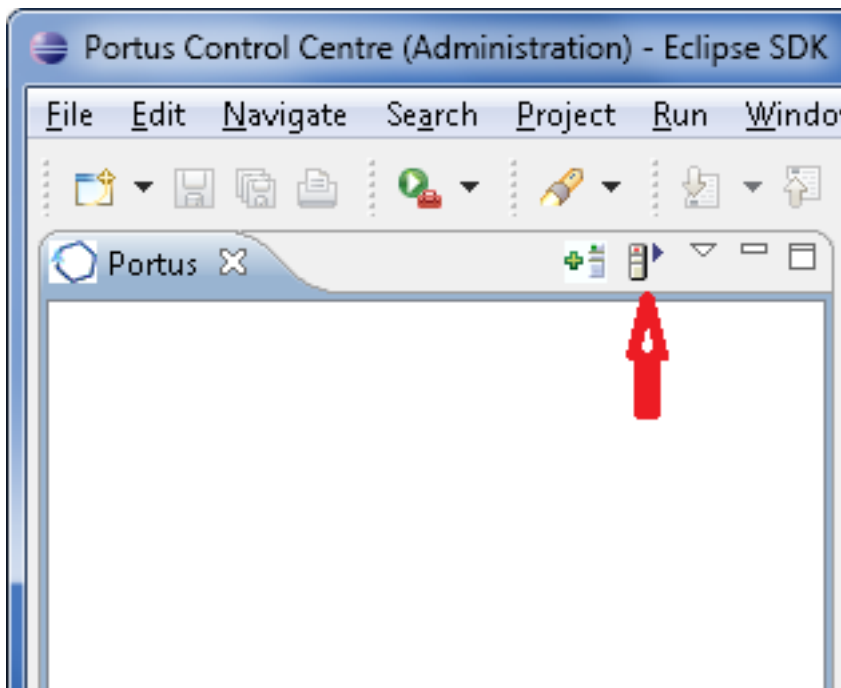
The next step then is to install and start the Portus server. To do this, you may have to deploy files to a remote machine. For example, you want to run your Portus Control Centre on Windows, but your Portus server on Linux. You can use the deployment wizard to send the deploy the required files to Linux and start your server.

- If this is the first time you've started the Control Centre, the Portus Perspective will be activated automatically.

If, for some reason, the Portus Control Centre perspective has not started, click **Window -> Open Perspective -> Other** and choose **Portus Control Center (Admin)** from the list. Click **OK**

You will be asked to specify a project name or accept the default. Usually you will now simply click the 'Continue' button, which will then start the 'Deployment Wizard' to guide you through the process of defining your server within the Portus Control Center and transfer (FTP) the installation files to the Portus Server target machine.


- If you, for whatever reason, opt to NOT run the Deployment Wizard at that time, you can start the wizard anytime later on by clicking the Deployment action button in the title bar of the 'Portus Servers' view



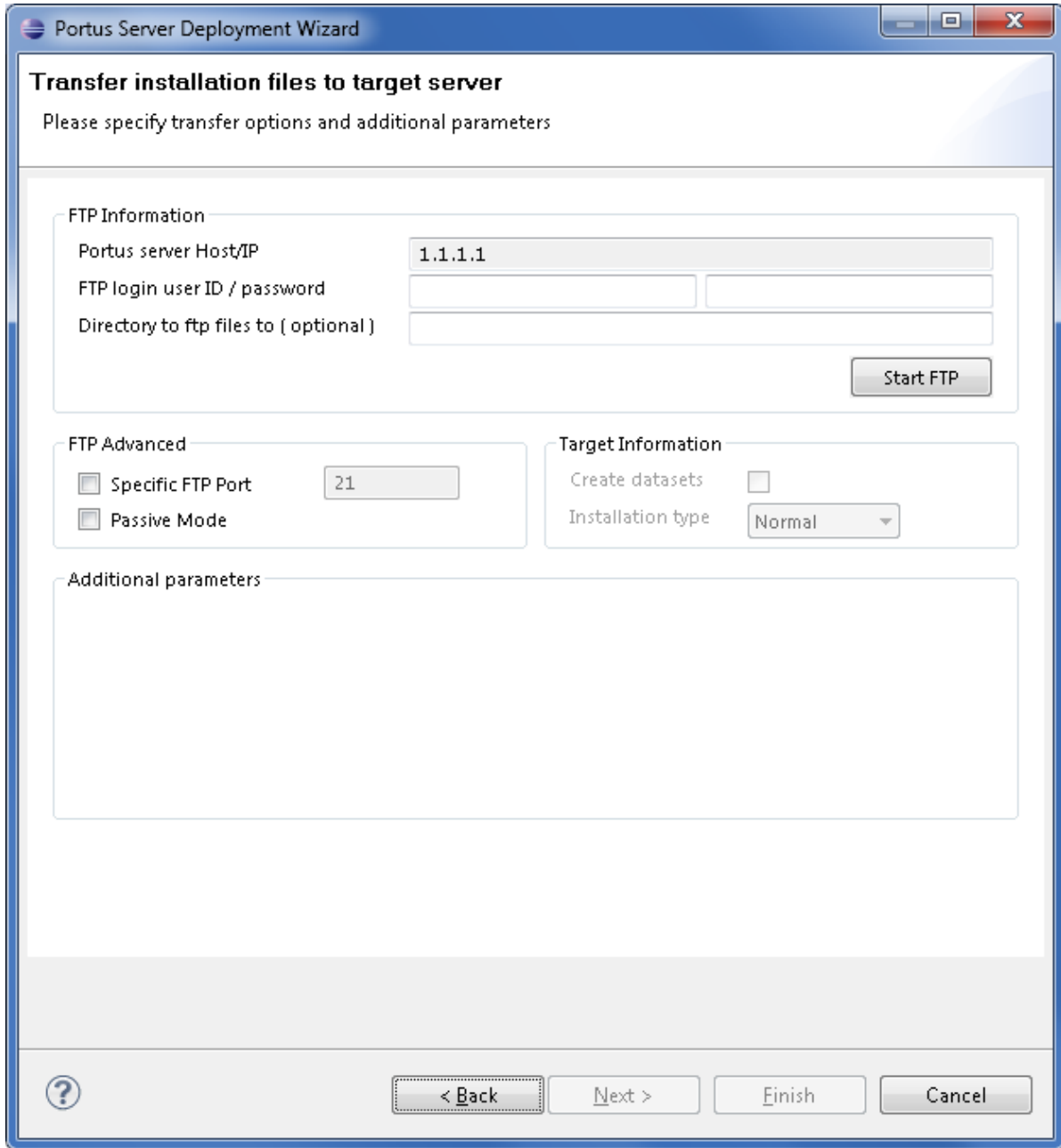
- The Deployment Wizard will now start

- From the drop-down menu, choose the installation files you want to deploy. These files were downloaded as part of the Find and Install step above.
- Select your Portus license file.
- Click **Next**
- The following screen allows you to either select an existing Portus server to deploy to (a list of servers known within your Control Centre environment is presented), or to define a new Portus server to the Control Centre. This server definition will be used for both the deployment process as well for (remote) server administration later on.
- To define a new server:
  1. Enter a 'friendly name'. This name will be used to refer to a Portus Server without needing to enter the hostname (or IP) later on.
  2. Enter the hostname or IP of the machine on which the Portus server will run. This host/IP will be used to send the install files ( via FTP ) and will become the host/IP that you use when issuing requests to Portus.
  3. Enter the port which you would like Portus to listen for connections on.


A new Apache web server will be installed, you must ensure that the port chosen here is available for use on the server machine.

The port entered here will ultimately be the port that Portus uses to service requests.
  4.  **Important:** Once you have filled in all of the above, click '**Add Server**'
  5. The server will now be added to your Portus Control Centre 'Servers View' for later use.
- Alternatively, if an already defined server is to be used (i.e. installation files deployed to it), check 'Deploy to existing Portus Server' and select a server from the list in the 'Existing Server Information' section.
- Select the transport mechanism, one of
  - FTP: only transfer, actual installation has to be carried out by logging on to the target system and starting the installation script manually
  - SSH: this method optionally allows for automatic ("silent") installation, no separate login to the remote system required. After the files have been transferred the install script will be executed by the deployment wizard, the Portus server (optionally) be started.
- Click **Next**
- The next screen is used to deploy the installation files to the target machine, i.e. the machine is where the Portus server will run. Which of the following paths will be taken depends on the choice made regarding the transport mechanism above.

*FTP:*

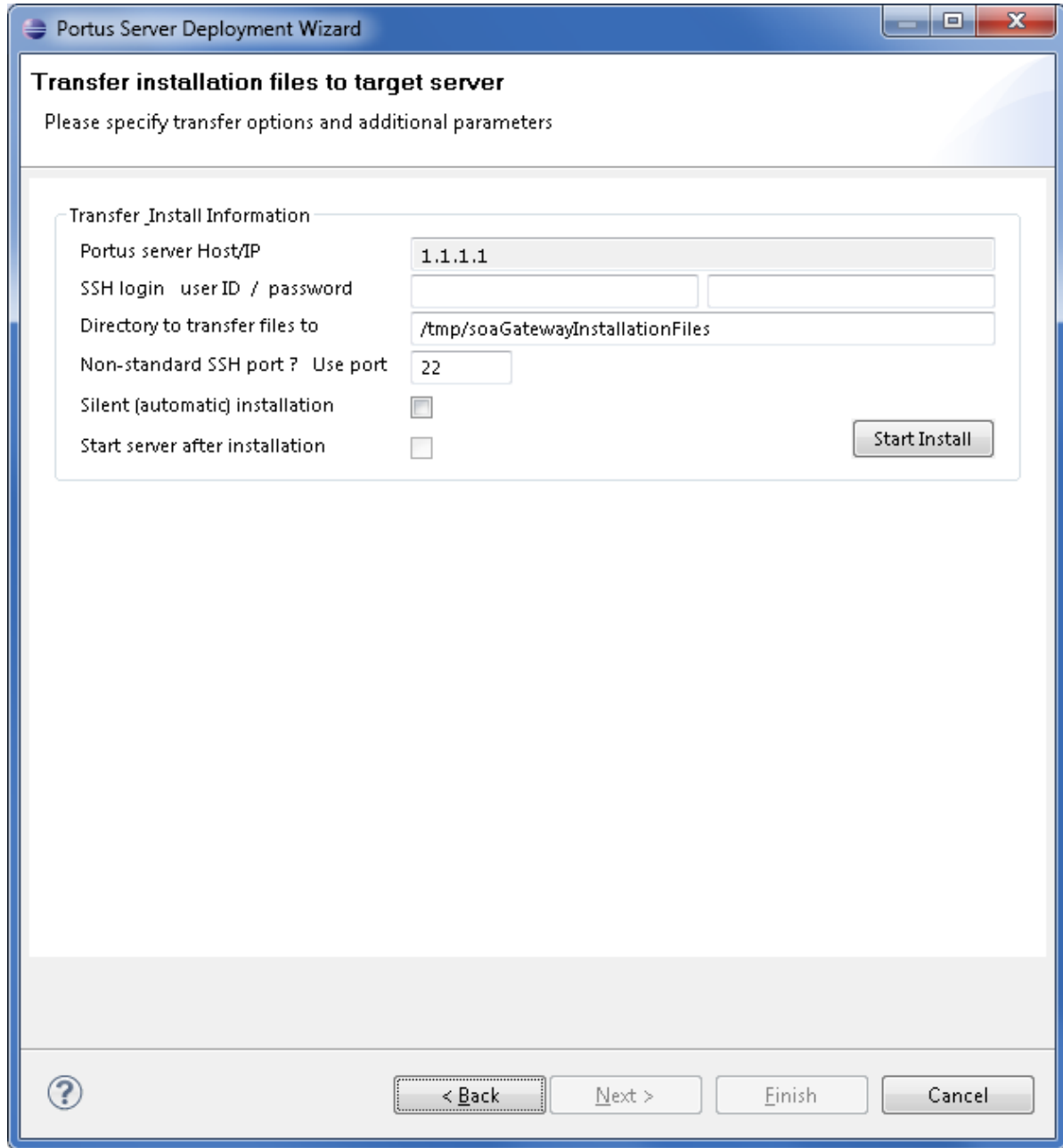


- The Host / IP will have already been filled by what has been specified on the previous page.
- Enter the username which is used to login (via FTP) to the server machine (if required)
- Enter the password (if required)
- Enter a directory to send the installation files to. This directory may be relative to the login directory, or can be a fully qualified path name. The directory will be created if it does not exist.
- If your FTP server requires a port other than 21, you can specify that by selecting **Specific FTP Port** and entering the FTP port number.



- If your FTP server requires passive mode transfers, you can enable this by selecting the **Passive Mode** checkbox
-  **Important:** Click the **Start FTP** button to begin the FTP.
  
- The *Additional parameters* group will allow you to enter (if required) additional information required for the operation of the driver(s) to be installed. Parameters related to all *licensed* drivers are queried here, you may omit those for all drivers you do not intend to use.
- Once the FTP has completed, you need to logon to the target machine, and run the server-specific installation steps.
  - **Server installation steps**

*SSH:*

- To just transfer the install files and not have the Deployment Wizard run the installation remotely, fill in your login credentials, specify a directory to transfer the files to and click **Start Install**.



Once you have started the transfer you will be prompted for your confirmation that it is really the host you want to send the files to.

- If you want the Deployment Wizard to also schedule the actual installation remotely, check the "**Silent (automatic) installation**" option, set the various directories, then click **Start Install**.
-  **Important:** If you do not want to do the installation silently, follow the instructions [here](#)
-  **Important:** If you are updating an existing installation, the "**Silent (automatic) installation**" should not be checked.



The screenshot shows a window titled "Portus Server Deployment Wizard" with the following content:

**Transfer installation files to target server**  
Please specify transfer options and additional parameters

**Transfer\_Install Information**

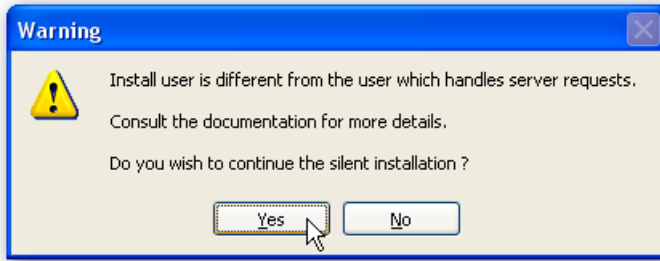
Portus server Host/IP	1.1.1.1
SSH login user ID / password	<input type="text"/>
Directory to transfer files to	/tmp/soaGatewayInstallationFiles
Non-standard SSH port? Use port	22
Silent (automatic) installation	<input checked="" type="checkbox"/>
Start server after installation	<input checked="" type="checkbox"/>

**Silent install parameters**

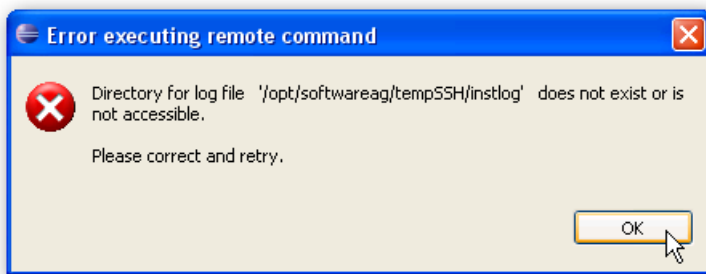
Server install directory	/usr/local/soaGateway
Server install log file	/tmp/soaGatewayInstallationFiles/instlog
User to handle server requests	sag
sagenv file	/opt/softwareag/sagenv.new

Buttons: Start Install, < Back, Next >, Finish, Cancel

When different User IDs are specified for the "login" and "handle server requests", the following will prompt you for confirmation, please check if the authorization level for the user running the Portus server is sufficient to access and execute files created by the "login user".



If the directory specified to contain the install log file does not exist you will be asked to create it before the installation can continue.



All other files will be created by the installation scripts.

The overall transfer status will be shown directly within the Deployment Wizard window, for larger files an external window will pop up to indicate the progress.



- **Note:** To enable "passwordless logins" execute the following steps:

1. Run the command : `ssh-keygen -t dsa`

e.g.

```
Generating
public/private dsa key pair. Enter file in which to save the key
(/home/myUser/.ssh/id_dsa): Enter passphrase (empty for no passphrase): Enter
same passphrase again: Your identification has been saved in
/home/myUser/.ssh/id_dsa. Your public key has been saved in
```

```
/home/myUser/.ssh/id_dsa.pub. The key fingerprint is:
7d:a9:f9:44:31:c3:d8:6c:d8:c1:d0:5f:39:f8:75:79 myUser@192.168.135.51
```

## 2. Copy your public key to the remote server

e.g.

```
>> scp .ssh/id_dsa.pub
myUser@192.168.135.99:~$ ssh myUser@192.168.135.99: Password: id_dsa.pub 100% 600 0.6KB/s
00:00
```

## 3. Login to the remote server and add your public key to the authorized keys.

e.g.

```
myUser@192.168.135.51:~$ ssh -l myUser
192.168.135.99 Password: Last login: Tue Sep 29 17:02:47 2009 from
v-br.vpn.risaris >> cd .ssh/ >> cat id_dsa.pub >>
authorized_keys2
```

- You should now be able to login to the remote server without a password.

In the case of problems, SSH information will appear in `/var/log/messages` or `/var/log/lastlog`

- Now that the server has been installed, you can query the server status from the Deployment Wizard.

You can choose to view this status information in the Deployment Wizard, in a browser, or both.

- Click the **Display Server Status** or the **Display Status in Browser Window** buttons to return the status of the server.
- You should now click **Configure Driver(s)** to create Portus drivers that are enabled in your license. If you choose to not add drivers now, they can also be created at a later stage, more information about defining drivers can be found in the Servers View section of this documentation.

The "Driver Wizard" will present a list of licensed drivers, and come up with all drivers selected and ready to be defined. You may now just click the **Configure** button to define all of them, or deselect those you do not need or want to set up at that stage.

Click "Configure".

In case the driver does not require any additional parameters to be set, it will be defined now, otherwise the Driver Definition Dialog will ask for the additional parameter(s) to be set. e.g. for an Adabas driver set the "ListMaxRecords" parameter. Click the **Save** button.

- When **Show (post-setup) Driver Information** is selected, and information is available for the driver(s) just installed, it will be displayed (cumulatively) after the driver(s) have been configured
- Click **Done** to close the Deployment Wizard

- Configure Portus using the *Portus (Eclipse) Control Centre*

## Server Installation

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This section outlines machine specific installation steps.

### Host-type: Linux / \*ix type

1. On the target machine, in the installation directory, execute the script `./installServer.sh`.



**Important:** It is recommended that this script runs using the **root** user.



**Important:** If you wish to update an existing installation, run this script with the `-update` option.

2. The script will check if the prerequisites are met.
3. Enter the full path of the Portus installation. Example: `/usr/local/soaGateway`
4. If required, specify the Software AG `sagenv` file that is to be used (an absolute path must be used). Example: `/opt/softwareag/sagenv.new`



**Note:** If you do not have a `sagenv` file available, enter skip.

5. The next prompt asks what user Portus should be started as. If you included a valid SAGENV file in the previous step, you should choose the user who runs Software AG products, normally the "sag" user. Otherwise, if you started the script as root, lesser privileged user will be chosen, normally `www` or `nobody`. If you did not start the script as root, the current user will be chosen.
6. The script now has all the information to commence the installation. Follow the on-screen instructions to start Apache.

# 5 Installation verification

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## Portus Server installation verification

To test if the Portus Server has come up correctly, you may issue, from a browser, the request

```
http://<server>:<port>/SoaGatewayStatus
```

Or, on Windows, you can select **Start -> All Programs -> Portus v4.1.1 -> Portus Status**

The Server should report its status. If it does not, see the *Troubleshooting* section.

After you have defined an accessible Resource, for example by pointing the installation supplied "Employees" Resource to an actual Database id / File number of an Adabas "Employees" demo file, issue the following request:

```
http://<server>:<port>/adabas_Employees?LIST&name=MEYER
```

which will, if set up correctly, display a list of employees with last name "MEYER" like this:

```
<?xml version="1.0" encoding="UTF-8"
standalone="no" ?> <adabasEmployees> <adabasEmployee>
<personnel_id>11600322</personnel_id>
<first_name>MARIANNE</first_name>
<middle_name>AGNES</middle_name> <name>MEYER</name>
<mar_stat>M</mar_stat>
<sex>F</sex><city>BREMEN</city>
<zip>2800</zip><country>D</country>
<area_code>0421</area_code> <phone>290755</phone>
<dept>SALE46</dept> <job_title>KASSIERERIN</job_title>
<leave_due>31</leave_due> <leave_taken>01</leave_taken>
</adabasEmployee> <adabasEmployee>
<personnel_id>20009200</personnel_id>
<first_name>LESLIE</first_name>
<middle_name>HENRY</middle_name> <name>MEYER</name>
<mar_stat>M</mar_stat> <sex>M</sex>
<city>SEATTLE</city> <zip>98105</zip>
<country>USA</country> <area_code>206</area_code>
<phone>147-4864</phone> <dept>MGMT30</dept>
<job_title>MANAGER</job_title>
<leave_due>12</leave_due> <leave_taken>08</leave_taken>
</adabasEmployee> <adabasEmployee>
<personnel_id>20023800</personnel_id>
<first_name>ARTHUR</first_name>
<middle_name>JOHN</middle_name> <name>MEYER</name>
<mar_stat>M</mar_stat> <sex>M</sex>
<city>STILLWATER</city> <zip>74074</zip>
<country>USA</country> <area_code>405</area_code>
<phone>724-8063</phone> <dept>MGMT30</dept>
<job_title>MANAGER</job_title>
```

```
<leave_due>38</leave_due> <leave_taken>05</leave_taken>
</adabasEmployee> <adabasEmployee>
<personnel_id>20027900</personnel_id>
<first_name>DANIEL</first_name>
<middle_name></middle_name> <name>MEYER</name>
<mar_stat>D</mar_stat> <sex>M</sex>
<city>DENVER</city> <zip>80210</zip>
<country>USA</country> <area_code>303</area_code>
<phone>242-1213</phone> <dept>TECH05</dept>
<job_title>MANAGER</job_title>
<leave_due>19</leave_due> <leave_taken>06</leave_taken>
</adabasEmployee> </adabasEmployees>
```





# 6 Server and Control Center on Windows

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## Introduction

---

This section outlines how to install the Portus Server on Windows

See here for installation troubleshooting hints.

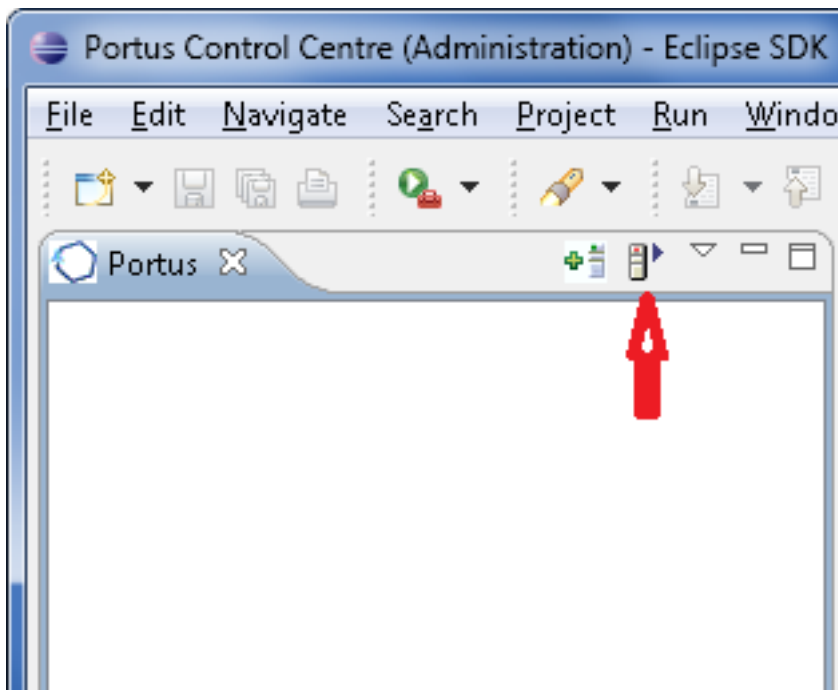
**⚠ Important:** If the version you are installing is not Portus v2.4.2, then your installation may display a different version number from the screenshots below. There is no functional installation difference between versions, so this can be safely ignored.

## Installation using the Deployment Wizard

---


On Windows, the Portus install is done via the Deployment Wizard. This is a wizard which runs within Eclipse, and guides you through the steps required to install and configure your Portus server.

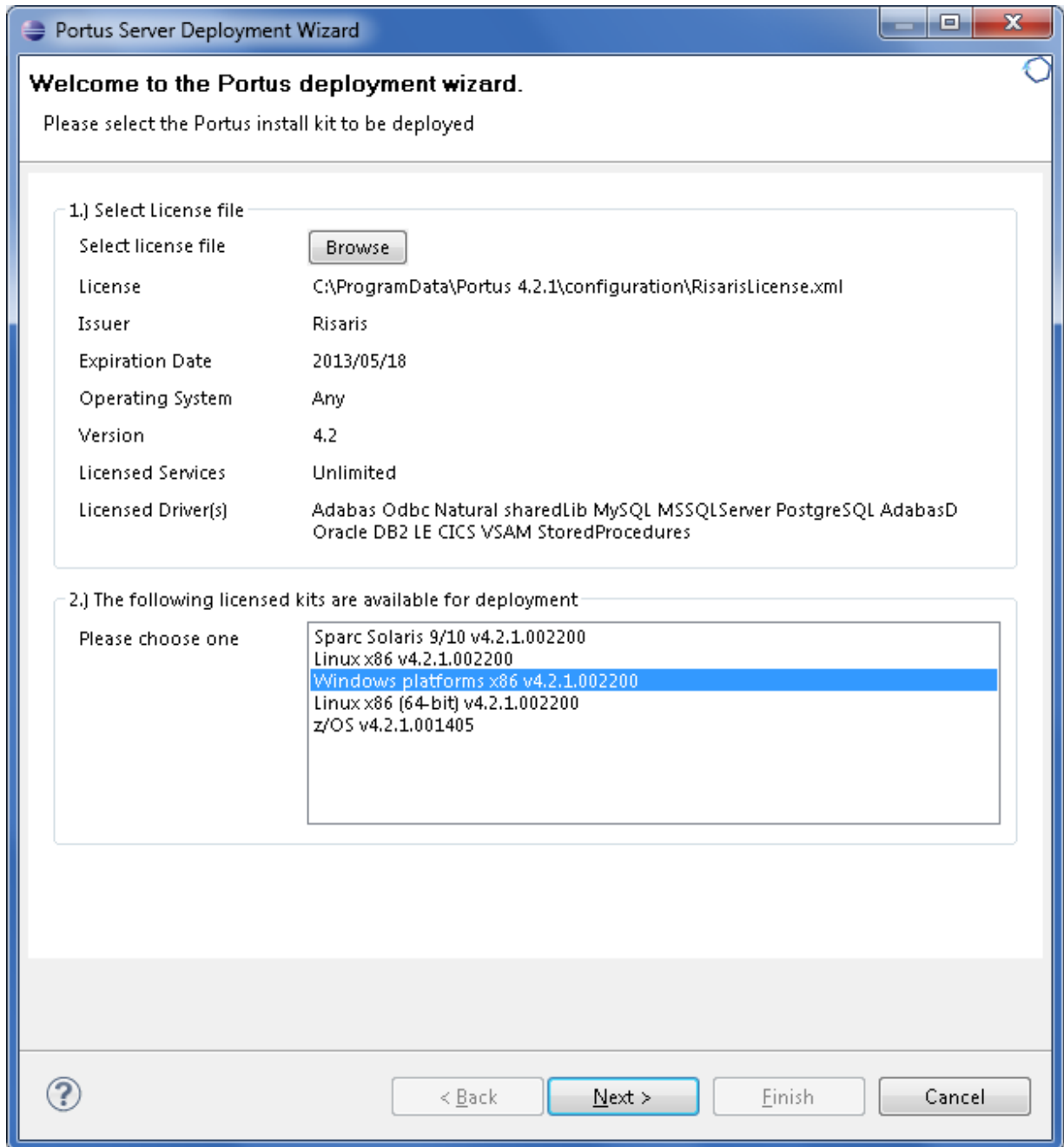
- A dialog will be presented the first time the Portus Control Center is started after its installation. Specify a project name and click **Continue**
- To start the deployment wizard at any time, click the following button



The Deployment Wizard will appear

- Click "**Browse**" to select your license, choose your (Windows) installation kit from the list of available and licensed kits.

 **Important:** This license should reside on a local HDD (Hard Disk Drive), and *not* on a network drive or SSD (Solid State Drive).



Click **Next**

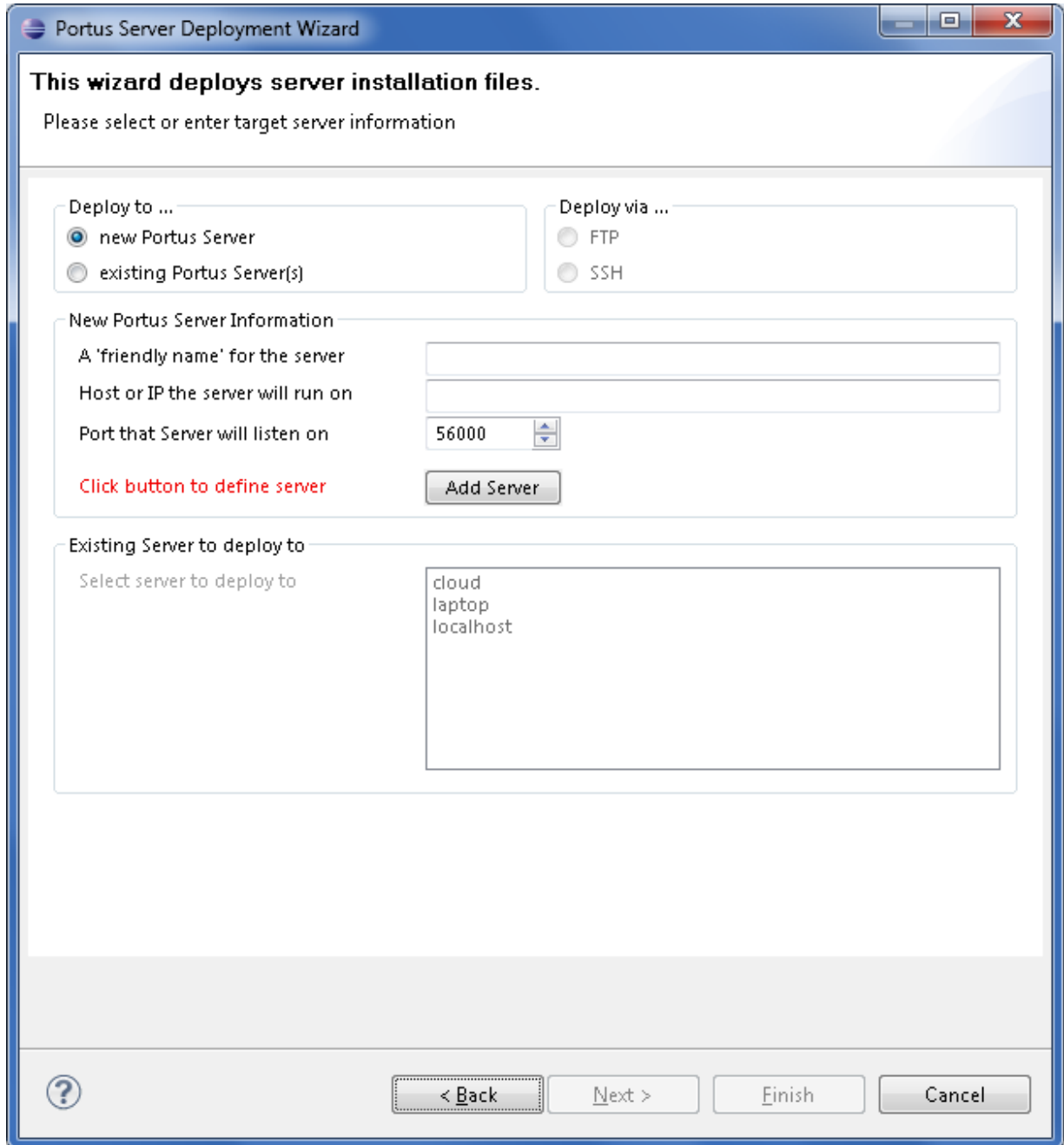
- The following screen allows you to either select an existing Portus server to deploy to, or to define a new Portus server to the Control Center. This server definition will be used for server administration later on.

For Windows, you should

1. Enter a 'friendly name'. This name will be used to refer to a Portus Server without needing to enter the hostname (or IP) later on.
2. Enter the hostname or IP of the machine on which the Portus server will run. This host/IP will be the machine you are currently working on. In many cases, entering **localhost** will suffice.
3. Enter the port which you would like Portus to listen for requests on. A new Apache web server will be installed, you must ensure that the port chosen here is available for use and not blocked by a firewall. The port entered here will ultimately be the port that Portus uses to service requests.



**Important:** Once you have filled in all of the above, click 'Add Server'

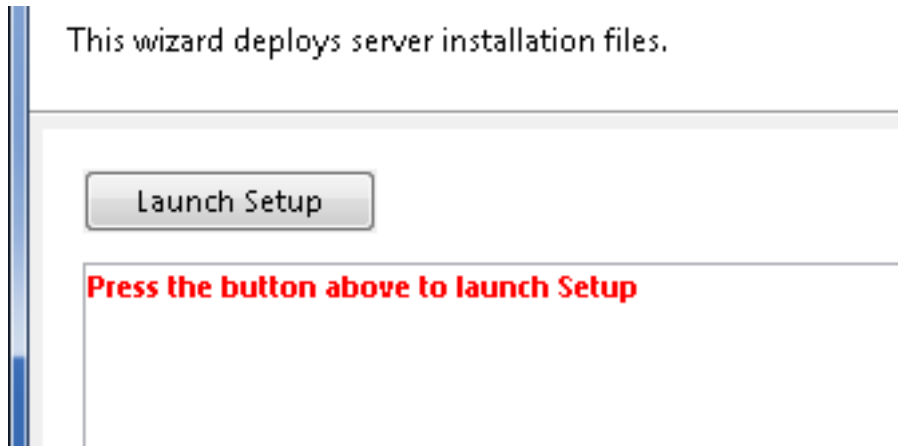


The server will now be added to your Portus Control Center 'Servers View' for later use.

Click **Next**

- Now the Deployment Wizard must launch the Windows installer program.

Press the **Launch Setup** button



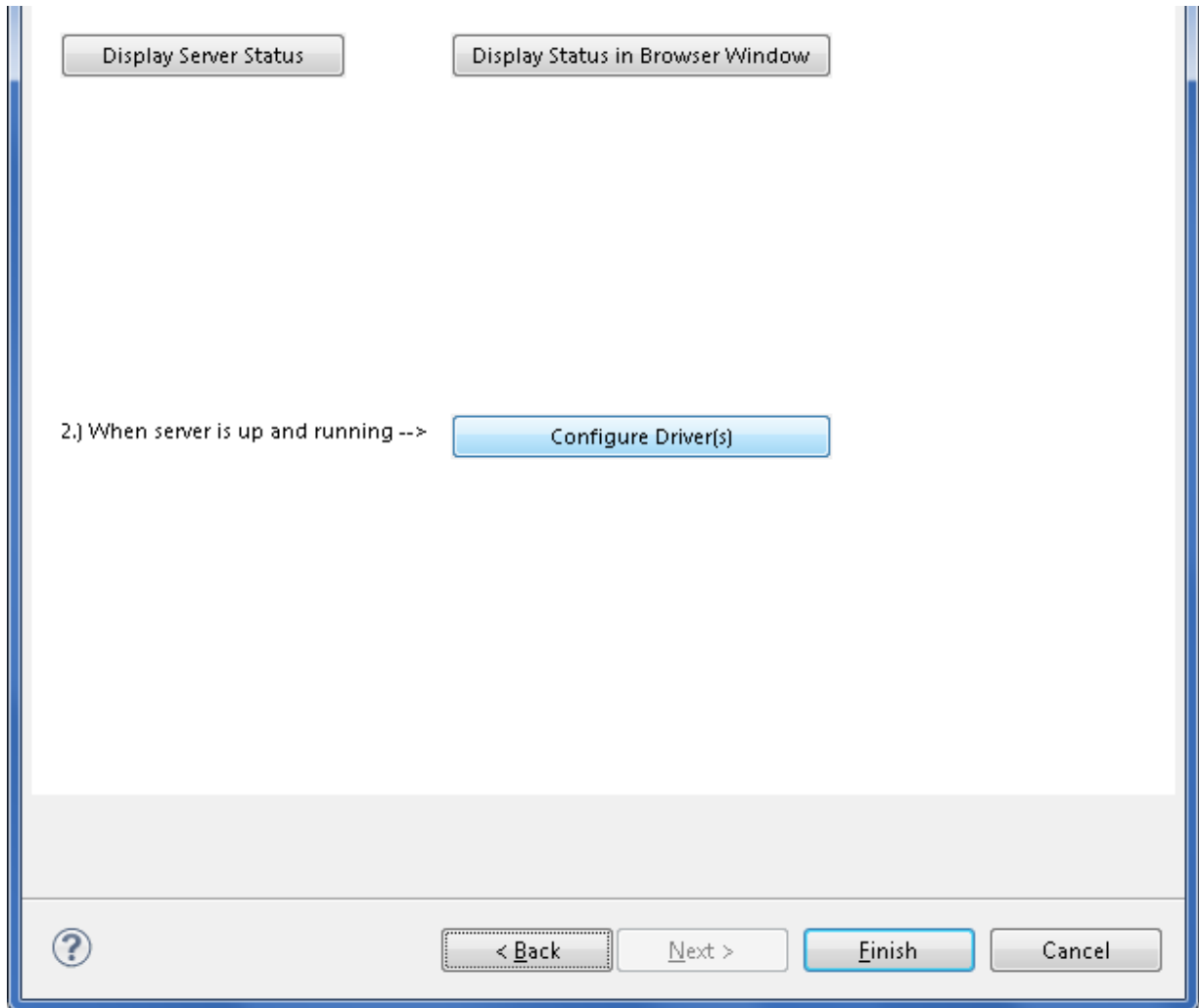
- The deployment wizard now starts an MSI installer to install the Portus Server component on the system.

When the first page appears, click **Next**

- If you require Portus to be installed in a non-default directory, click **Browse** and select your directory. Otherwise click **Next**
- Click **Install** to continue
- Please wait while Portus is installed
- When the installation is complete, click **Finish**
- Return to the Deployment Wizard, the message log will indicate either success or failure of the setup process.

Click **Next**

- The next screen is used to verify that your Portus is up and running, and then to configure it based on your license.
  1. **Display Server Status:** This displays this a short summary of the server status in the deployment wizard
  2. **Display Status in Browser Window:** This displays more information about the servers status in a browser.
  3. **Configure Driver(s):** Allows you to automatically create drivers based on your license.



- You should now click **Configure Driver(s)** to create Portus drivers that are enabled in your license. If you choose to not add drivers now, they can also be created at a later stage, more information about defining drivers can be found in the Servers View section of this documentation.

The "Driver Wizard" will present a list of licensed drivers, and come up with all drivers selected and ready to be defined. You may now just click the **Configure** button to define all of them, or deselect those you do not need or want to set up at that stage.

Click "Configure".

In case the driver does not require any additional parameters to be set, it will be defined now, otherwise the Driver Definition Dialog will ask for the additional parameter(s) to be set e.g. set the "ListMaxRecords" parameter to a value of "0" (zero) for an Adabas Driver. Click the **Save** button.

The Driver Wizard Dialog indicates the success of the operation

- When **Show (post-setup) Driver Information** is selected, and information is available for the driver(s) just installed, it will be displayed (cumulatively) after the driver(s) have been configured
- Click **Done** to close the Deployment Wizard

## Post installation steps

---

Now Portus is installed - what's next?

- New to Eclipse ? Take an Eclipse getting started tour.
- Configure Portus using the *Portus Control Center*
- Proceed directly to define Web Services using Portus.



# 7 z/OS Installation Procedure

---

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▪ Server Installation .....	40

The following will guide you through the process of installing and starting the Portus server.

## Using the Deployment Wizard to install on a z/OS host

---



**Important:** If the version you are installing is not Portus v2.4.2, then your installation may display a different version number from the screenshots below. There is no functional installation difference between versions, so this can be safely ignored.

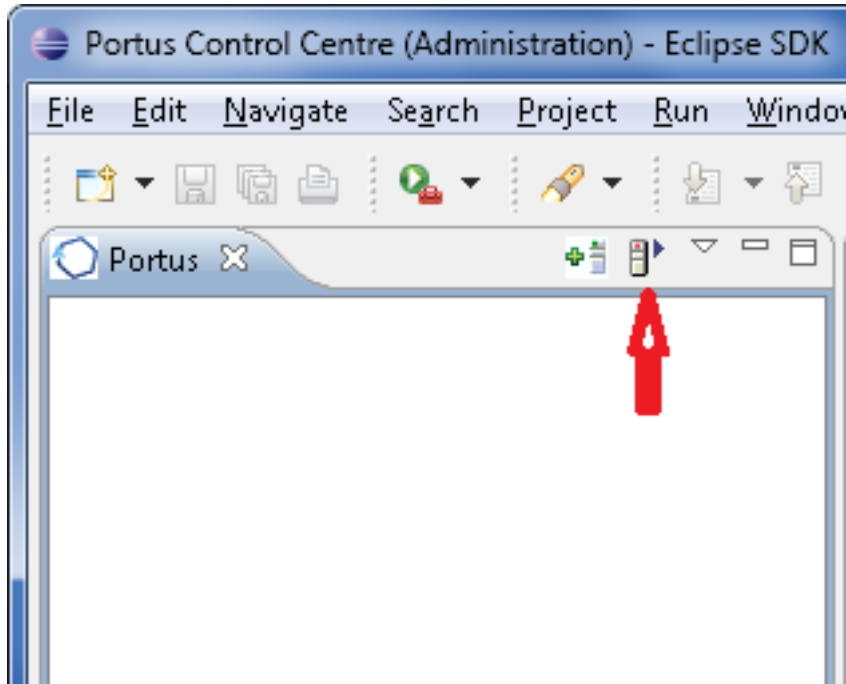
The next step then is to install and start the Portus server. To do this, you may have to deploy files to a remote machine. For example, you want to run your Portus Control Centre on Windows, but your Portus server on z/OS. You can use the deployment wizard to deploy the required files to z/OS and start your server.

- If this is the first time you've started the Control Centre, the Portus Perspective will be activated automatically.

If, for some reason, the Portus Control Centre perspective has not started, click **Window -> Open Perspective -> Other** and choose **Portus Control Center (Admin)** from the list. Click **OK**

You will be asked to specify a project name or accept the default. Usually you will now simply click the 'Continue' button, which will then start the 'Deployment Wizard' to guide you through the process of defining your server within the Portus Control Center and transfer (FTP) the installation files to the Portus Server target machine.


- If you, for whatever reason, opt to NOT run the Deployment Wizard at that time, you can start the wizard anytime later on by clicking the Deployment action button in the title bar of the 'Portus' or 'Portus (legacy) Servers' view



- The Deployment Wizard will now start
- Select your Portus license file.
- From the list of licensed kits, select the z/OS kit.
- Click **Next**
- The following screen allows you to either select an existing Portus server to deploy to, or to define a new Portus server to the Control Centre. This server definition will be used for both the deployment process as well for (remote) server administration later on.
- To define a new server:
  1. Enter a 'friendly name'. This name will be used to refer to a Portus Server without needing to enter the hostname (or IP) later on.
  2. Enter the hostname or IP of the machine on which the Portus server will run. This host/IP will be used to send the install files ( via FTP ) and will become the host/IP that you use when issuing requests to Portus.
  3. Enter the port which you would like Portus to listen for connections on.

A new Apache web server will be installed, you must ensure that the port chosen here is available for use on the server machine.

The port entered here will ultimately be the port that Portus uses to service requests.

4.  **Important:** Once you have filled in all of the above, click '**Add Server**'
5. The server will now be added to your Portus Control Centre 'Servers View' for later use.

- Alternatively, if an already defined server is to be used (i.e. installation files deployed to it), check 'Deploy to existing Portus Server' and select a server from the list in the 'Existing Server Information' section.
- Click **Next**
- The next screen is used to deploy the installation files to the target machine, i.e. the machine is where the Portus server will run.

**Transfer installation files to target server**  
Please specify transfer options and additional parameters

**FTP Information**

SOA Gateway server Host/IP: ibm2  
FTP login user ID / password:    
High-level qualifier (DSN):

Start FTP

**FTP Advanced**

Specific FTP Port: 21  
 Passive Mode


**Target Information**

Create datasets:   
Installation type: Normal

**Additional parameters**

Job class: A  
Message class: X  
System ID: ibm2  
Adabas Load Library (DSN):   
DLL Load Library (DSN):   
Natural Load Library (DSN):


< Back   Next >   Finish   Cancel

- The hostname / IP will have already been filled by what has been specified on the previous page.
- Enter the username which is used to login (via FTP) to the server machine (if required)
- Enter the password (if required)
- Enter a high-level qualifier to send the installation files to.
-  **Important:**

- Check the **Create datasets** box (in the target information group) if you want the wizard to create the necessary datasets (recommended). Otherwise, these must be already allocated. For more information, see [here](#)
- Installation type. In most cases, this should be left as **Normal** . If the datasets that are being sent are patch datasets, you should select **Patch** from the drop-down menu.
- The *Additional parameters* group will allow you to enter the DSN(s) required for the operation of the driver(s) to be installed. Parameters related to all *licensed* drivers are queried here, you may omit those for all drivers you do not intend to use.



**Note:** Click the Help button(s) next to the DSN name input fields to view information about each datasets purpose.

- If your FTP server requires a port other than 21, you can specify that by selecting **Specific FTP Port** and entering the FTP port number.
- If your FTP server requires passive mode transfers, you can enable this by selecting the **Passive Mode** checkbox
-  **Important:** Click the **Start FTP** button to begin the FTP.

- Once the FTP has completed, you need to logon to the target machine, and run the server-specific installation steps.

- [z/OS Installation Steps](#)

- Now that the server has been installed, you can query the server status from the deployment wizard.

You can choose to view this status information in the Deployment Wizard, in a browser, or both.

- Click the **Display Server Status** or the **Display Status in Browser Window** buttons to return the status of the server.
- You should now click **Configure Driver(s)** to create Portus drivers that are enabled in your license. If you choose to not add drivers now, they can also be created at a later stage, more information about defining drivers can be found in the Servers View section of this documentation.

The "Driver Wizard" will present a list of licensed drivers, and come up with all drivers selected and ready to be defined. You may now just click the **Configure** button to define all of them, or deselect those you do not need or want to set up at that stage.

Click "Configure".

In case the driver does not require any additional parameters to be set, it will be defined now, otherwise the Driver Definition Dialog will ask for the additional parameter(s) to be set. e.g. we set the "ListMaxRecords" parameter to a value of "0" (zero) for an Adabas driver. Click the **Save** button.

- When **Show (post-setup) Driver Information** is selected, and information is available for the driver(s) just installed, it will be displayed (cumulatively) after the driver(s) have been configured
- Click **Done** to close the Deployment Wizard
- Configure Portus using the *Portus (Eclipse) Control Centre*

## Server Installation

This section outlines machine specific installation steps.

### Host-type: z/OS

#### Dataset Create



**Important:** This step can be ignored if you chose the **Create Datasets** in the Deployment Wizard. If so, continue to [here](#)

The Portus Installation on z/OS uses 4 datasets, which must be created in advance. The datasets can be any name you wish, so long as they each use the same high-level qualifier. This allows the user to specify one dataset name prefix in the Java wizard, and the installation is based upon this qualifier.

The 4 datasets to create are RECV, JCL, CONF, and ZIP.

For example, if the high-level qualifier is USER.INST001, then the following would be the datasets that need to be created.

- *USER.INST001.RECV*
- *USER.INST001.JCL*
- *USER.INST001.CONF*
- *USER.INST001.ZIP*

The dataset attributes needed are as follows:

Name	Type	RECFM	LRECL	BLKSIZE	SIZE
RECV	Sequential	FB	80	3120	see below
JCL	PDS	FB	80	3120	
CONF	PDS	VB	508	512	
ZIP	Sequential	VB	16380	16384	see below

These local files will be located in the directory where the wizard was started.

XMIT File: AdabasSOAGateway/zOS/ASG.XMIT

ZIP File: AdabasSOAGateway/zOS/asg.zip

The size attribute for the RECV and ZIP datasets to be created on the zOS should be calculated as follows:

RECV File: Divide the size of ASG.XMIT in bytes by 3120. Round the resultant size upwards to the nearest integer to obtain the file size in blocks. We recommend a size of 9700 blocks.

ZIP File: Divide the size of asg.zip in bytes by 16380. Round the resultant size upwards to the nearest integer to obtain the file size in blocks. We recommend a size of 700 blocks.

- Enter the hostname or IP address of the z/OS system.
- Select z/OS as the "Host type"
- Enter the user ID
- Enter the password
- Enter the high-level qualifier used to create the datasets created earlier in the process.
- If you wish to use a non-standard FTP port, click the "Specific FTP Port" checkbox and enter the port to be used.

RECV		Sequential file containing the Portus load modules. This will be TSO RECEIVED as part of the installation process.
JCL	SOAGINS1	A job to perform a TSO receive.
	SOAGINS2	A job which deletes, creates, initializes, and unzips the Portus file system into the file system available to Apache in this environment. The DEL step of this job will finish with CC=8 if the PFS dataset does not exist. Likewise, if the PFS dataset does exist, it will be deleted by this job.
	SOAGINS3	A job which copies a Apache's configuration file from a PDS member to the Portus Environment.
	SOAGINS4	A job which copies the license file the Portus Environment.
	SOAGINS5	A job which copies an Apache's SSLCONF configuration file from a PDS member to the Portus Environment.
	SOAGINS6	A job which copies SSL Certificate and SSL Key files from the CONF PDS to the Portus Environment.
	SOAGCOPY	A job which copies a file out of the Portus Environment to a dataset on zOS. Use only at the request of Tech Support
	SOAGPROC	PROC to be used for running all other jobs.
	SOAGSTRT	Job which starts the Portus Server.
	PFSPROC	PROC to be used for various utilities.
	CPLOGS	A job which copies Apache's error_log to an OUTPUT DDCARD if a failure occurs during Portus initialization. Once the Portus server is initialized, this log will be written to the JES Spool.

	PFSL5	A job which lists the contents of the Portus file system.
	CLIINI	A DB2 CLI Initialization File. If using DB2 Driver this will need to be modified to reflect the Sub-System ID and location name. Your DBA can provide this information.
CONF	CONFIG	File used by Portus to declare environment variables
	HTCONF	A copy of the Portus's Apache configuration file. This can be edited and copied into the Portus file system using SOAGINS3.
	GROUP	Run-time configuration file
	HOSTS	Run-time configuration file
	PASSWD	Run-time configuration file
	DXRTRACE	Run-time parameters for debugging. Only to be used at the direction of support
	DDCARD	Adabas Run parameters
	SYSPARM	Run-time parameters.
	ASGLIC	License File.
ZIP		A Sequential zip-file containing the Portus file system.

If you do not wish to install the Portus (Eclipse) Control Centre, proceed to z/OS Server Setup

You can either, logon to the z/OS host and setup the Portus Server, or install the client pieces now (if selected) and run the server setup at a later time.

### Submitting JCL and Starting Server

Review and modify the following jobs prior to submitting them to reflect your installation standards and the names of the datasets created during your installation.

1. Review and submit SOAGINS1 to TSO RECEIVE the Portus load library.
2. Review and submit SOAGINS2 to create, init, and populate the Portus file system.
3. Review and submit SOAGINS3 to copy the Apache configuration file into the Portus filesystem.
4. Review and submit SOAGINS4 to copy the Portus license into the Portus filesystem.
5. If using the Adabas Driver review the DDCARD member and specify the correct Adabas SVC number. Under certain circumstances, the Adabas link routines may not pick up the SVC and DBID values specified via DDCARD. In this case the SVC number and Database Id must be zapped into ADALNKR, as described in the Adabas installation documentation, and the modified ADALNKR made available in a STEPLIB library ahead of the one containing the original, unzapped version.
6. If using the DB2/ODBC Driver review the CLIINI member and specify the correct MVSDE-FAULTSSID and Location name.

Refer to you DBA for this information.

7. Submit SOAGSTRT to bring up the Portus (Apache) server. The server is ready to be used when you see the "XMiddle ... is ready for requests" message in the XMIDCARD DD.





**Important:** Restarting and stopping Portus: Due to the nature of the z/OS Apache configuration it is not possible to restart the server with a single command. The server must be stopped with "/p jobName" and started by submitting SOAGSTRT again. In this scenario, Apache may issue a warning about the httpd.pid being overwritten. This warning can safely be ignored.

8. If the Portus Server is to be run as a started task (STC), copy SOAGSTRT to a procedure library.

### Starting Server with HTTPS

To enable HTTPS connections, a sample SSL certificate and SSL sample key have been provided. These are for development only, and should not be used in a production environment.

1. If you wish the server to listen on a non-default HTTPS port, review ...CONF(SSLCONF) and change all instances of 443 to the port you wish to listen for HTTPS connections.
2. Edit the ...CONF(HTCONF) member and uncomment the **Include conf/extra/httpd-ssl.conf** directive
3. Ensure the server has been stopped
4. Review and submit SOAGINS5 to copy SSLCONF into the Portus file system.
5. Review and submit SOAGINS3 to copy HTCONF into the Portus file system.
6. Edit SOAGPROC and change the server parameters to -X -DSSL

E.g. **EXEC PGM=HTTPD,PARM='-X -DSSL',REGION=0M**

7. Submit SOAGSTRT to bring up the Portus (Apache) server. The server is ready to be used when you see the "XMiddle ... is ready for requests" message in the XMIDCARD DD.

HTTPS access can be tested by checking (change host and the HTTPS port to suit your system)

**https://myServer:8443/SoaGatewayStatus**

For more information on configuring Apache for HTTPS see [here](#)



# 8 z/VSE Environments

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- Using the Deployment Wizard to install on a z/VSE host ..... 46
- Operating the Portus server ..... 49

This section provides information about installing and running the Portus in the VSE operating system environment. It covers the following topics:

## Using the Deployment Wizard to install on a z/VSE host

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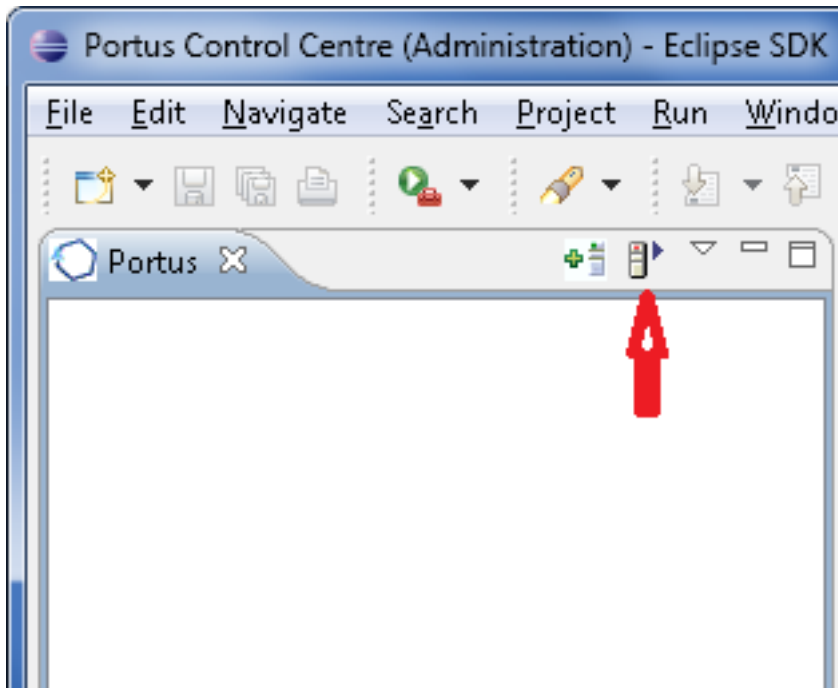
The next step then is to install and start the Portus server. To do this, you may have to deploy files to a remote machine. For example, you want to run your Portus Control Center on Windows, but your Portus server on z/VSE. You can use the deployment wizard to deploy the required files to z/VSE and start your server.

- If this is the first time you've started the Control Centre, the Portus Perspective will be activated automatically.

If, for some reason, the Portus Control Centre perspective has not started, click **Window -> Open Perspective -> Other** and choose **Portus Control Center (Admin)** from the list. Click **OK**


You will be asked to specify a project name or accept the default. Usually you will now simply click the 'Continue' button, which will then start the 'Deployment Wizard' to guide you through the process of defining your server within the Portus Control Center and transfer (FTP) the installation files to the Portus Server target machine.

- If you, for whatever reason, opt to NOT run the Deployment Wizard at that time, you can start the wizard anytime later on by clicking the Deployment action button in the title bar of the 'Portus Servers' view




- The Deployment Wizard will now start
- Select your Portus license file.
- From the list of licensed kits, choose the z/VSE kit.
- Click **Next**
- The following screen allows you to either select an existing Portus server to deploy to, or to define a new Portus server to the Control Center. This server definition will be used for both the deployment process as well for (remote) server administration later on.
- To define a new server:
  1. Enter a 'friendly name'. This name will be used to refer to a Portus Server without needing to enter the hostname (or IP) later on.
  2. Enter the hostname or IP of the machine on which the Portus server will run. This host/IP will be used to send the install files ( via FTP ) and will become the host/IP that you use when issuing requests to Portus.
  3. Enter the port which you would like Portus to listen for connections on.

A new Apache web server will be installed, you must ensure that the port chosen here is available for use on the server machine.

The port entered here will ultimately be the port that Portus uses to service requests.
  4.  **Important:** Once you have filled in all of the above, click '**Add Server**'
  5. The server will now be added to your Portus Control Centre 'Servers View' for later use.
- Alternatively, if an already defined server is to be used (i.e. installation files deployed to it), check 'Deploy to existing Portus Server' and select a server from the list in the 'Existing Server Information' section.
- Click **Next**
- The next screen allows you to extract the z/VSE specific files to your local environment.



- Click the "Extract Files" button and extract the z/VSE files to your local system.
- Using FTP, send your Portus license file into the `SAGLIB.ASGvvv` library. This file should be named `ASG41.LIC`


 **Important:** This file must be not be translated during the transfer, therefore ensure it is transferred in binary.

 **Important:** In case you did not restore the Portus sublibraries into a library named `SAGLIB`, modify member `CPLIC.P` and update accordingly

Review `SOAGINS3` and adjust the library/volume/extent settings. Submit this job to copy your license file to the Portus filesystem.

- If you wish to change the port that Portus will listen on (default: 56000) transfer the `HTTPD.CONF` file from z/VSE to your PC and edit it there. The directive to change is `Listen`.

 **Important:** This file must be not be translated by the FTP, therefore ensure it is transferred in binary.

 **Important:** In case you did not restore the Portus sublibraries into a library named `SAGLIB`, modify member `CPHTTPD.P` and update accordingly

Review `SOAGINS4` and adjust the library/volume/extent settings. Submit this job to copy the `HTTPD.CONF` file to the Portus filesystem.

- In case you did not restore the Portus sublibraries into a library named *SAGLIB*, modify member *CONFIG.P* to point the *SAG\_RTS\_ETC=FILE:* setting from *///SAGLIB/ASG41114/to*  
*///<yourlib>/ASG41114/*

- Review *SOAGSTRT* and adjust the library/volume/extent settings.

Ensure that an Adabas (or WAL (Adabas Limited)) v8 library is included in the *LIBDEF*, it is essential for the operation of the Portus server that the level of Adabas is 8.1.3.02 or above .

If you plan to use the CICS Driver, ensure that Portus runs in OS390 emulation mode. Add the "OS390" to the JCL, e.g.

```
// EXEC HTTPD,SIZE=AUTO,PARM=' -DONE_PROCESS ',OS390
```

Submit *SOAGSTRT.JCL* to start your Portus server.

- In the Portus Server Deployment Wizard dialog click the **Display Server Status** or the **Display Status in Browser Window** buttons to return the status of the server.
- Click **Finish** to close the Deployment Wizard
- Configure Portus using the *Portus (Eclipse) Control Center*

## Operating the Portus server

- [Sizing the partition for the Portus server](#)
- [Using a disk file for the ADARUN parameters](#)

### Sizing the partition for the Portus server

The Portus server, started with the parameters as delivered, will require a partition with ca. 500 KB 24-bit and 36 MB 31-bit storage, plus ca. 20 KB SVA-24 and 160 KB SVA-31 storage.

To find out how much free SVA space is available on the system issue the AR command *GETVIS SVA*.

The output will look like this:

```
AR 0015 GETVIS USAGE   SVA-24   SVA-ANY           SVA-24   SVA-ANY
AR 0015  AREA SIZE:    1,872K   14,728K
AR 0015  USED AREA:    1,312K   6,788K MAX. EVER USED:    1,320K   6,800K
AR 0015  FREE AREA:      560K   7,940K LARGEST FREE:      560K   7,380K
AR 0015 1140I  READY
```

To get more information about SVA allocation and usage run the *LIBR* utility function *LISTDIR SDL*.

The output will look like this:

```

STATUS DISPLAY          SDL  AND  SVA                                DATE: 2009-07-12
                                                                TIME: 22:25
-----
SDL      TOTAL ENTRIES :    908  (100%)
        USED  ENTRIES :    514  ( 57%)
        FREE  ENTRIES :    394  ( 43%)

SVA(24) TOTAL SPACE   :   2188K (100%)
        USED  SPACE   :   1558K ( 71%)
        - PFIXED AREA:    165K (  8%)  START AT: 002C7928
        FREE  SPACE   :    630K ( 29%)

SVA(31) TOTAL SPACE   :   7620K (100%)
        USED  SPACE   :   6685K ( 88%)
        - PFIXED AREA:    680K (  9%)  START AT: 051C6F00
        FREE  SPACE   :    935K ( 12%)
-----
DIRECTORY DISPLAY     SDL SORTED BY PHASE NAME                    DATE: 2009-07-12
                                                                TIME: 22:25
-----
 M E M B E R      ORIGIN SVA/MOVE  LOADED  PHASE  ADDRESS  ENTRY POINT
NAME             TYPE   SYSLIB   MODE   INTO SVA  SIZE    IN SVA   IN SVA
-----
$$BACLOS PHASE    YES     MOVE    31     554   04BE6C48 04BE6C48
$$BATTNA PHASE    YES     MOVE    31    2216  04BE6E78 04BE6E78
$$BATTNK PHASE    YES     MOVE    31    1104  04BE7720 04BE7720
$$BATTNR PHASE    YES     MOVE    31     389   04BE7B70 04BE7B70
$$BCASI3 PHASE    NO      MOVE    31     838   04BEF880 04BEF880
$$BCLOSE PHASE    YES     MOVE    31    1192  04BE7CF8 04BE7CF8
$$BCLOS2 PHASE    YES     MOVE    31     624   04BE81A0 04BE81A0
$$BCLOS5 PHASE    YES     MOVE    31    1032  04BE8410 04BE8410
$$BCLRPS PHASE    YES     MOVE    31     712   04BE8818 04BE8818
$$BCVSAM PHASE    YES     MOVE    31     768   04BE8AE0 04BE8AE0
$$BCVS02 PHASE    YES     MOVE    31     326   04BE8DE0 04BE8DE0
$$BDYD$$ PHASE    NO      MOVE    31     104   04BEFBC8 04BEFBC8
...
...

```

**Using a disk file for the ADARUN parameters**

The Portus start job, SOAGSTRT.JCL, as distributed uses inline ADARUN parameters.

It may prove advantageous to put these parameters on a disk file instead, the following is sample JCL to do this:



```
* $$ JOB JNM=DITTOCS,CLASS=0,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB DITTOCS    CARD TO SEQUENTIAL DISK FILE
// UPSI 1
// DLBL CARD,'SOAGATE.ADARUN.PARAMETERS',0,SD
// EXTENT SYS010,vvvvvv,1,0,ssss,1
// ASSGN SYS010,DISK,VOL=vvvvvv,SHR
// EXEC DITTO
$$DITTO CS FILEOUT=CARD,RECFMOUT=F,BLKSIZE=80
ADARUN PROGRAM=RENTUSER
ADARUN SVC=<your_ADABAS_SVC_number>
ADARUN DATABASE=<your_ADABAS_dbid>
/*
/&
* $$ EOJ
```

After having created the disk file replace the inline ADARUN parameters in SOAGSTRT.JCL with the appropriate sequence of DLBL CARD, EXTENT and ASSGN statements.



# 9 Uninstallation Guide

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## Uninstall Portus Server - Linux, z/Linux, AIX and Solaris

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1. Ensure the Portus server is not running.

Change to the `<SERVER_install_dir>/apache2/bin` directory, replacing `<SERVER_install_dir>` with the location where you installed the Portus server.

Run the command `./apachectl stop`

2. The `<SERVER_install_dir>` can now be removed. Use the command `rm -rf <SERVER_install_dir>`.



**Important:** Once you run this `rm` command, all files and directories in `<SERVER_install_dir>` will be permanently deleted.

3. This completes the uninstall process.

Example:

```
# cd /usr/local/server/apache2/bin
# ./apachectl stop
# cd /usr/local
# rm -rf server
#
```

## Uninstall Portus Server - Windows

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1. Start the Windows Control Center by clicking **Start -> Control Panel**
2. Select the **Add or Remove Programs** or **Programs and Features** (depending on your version of Windows)
3. Select **Portus 4.2.1** and click **Change/Remove**
4. Select **Remove** radio button and click **Next**
5. Click **OK** to uninstall Portus

# 10 Copying or upgrading server configurations

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After having created a new environment, you may want or need to copy the existing service definitions to your new server.

This is possible with either

- Drag-and-Drop
- The Copy Wizard



**Note:** When copying between Portus servers at the different software levels, the copy operation will compensate for differences in the structure of the server configuration etc., should this not be fully possible for some reason, error messages will indicate the reason(s).

The following scenarios are possible when copying configuration elements

Copy to a server at the same level	No problems to be expected
Copy to a higher level server ("upgrade")	New features may have been introduced, default values may be used for new elements.
Copy to a lower level server ("downgrade")	Loss of a certain amount of control information possible due to elements not known by the down-level server

## Copy configuration with drag-and-drop

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See here for more information on this feature.

## Upgrading using the Copy Wizard

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See here for more information on this feature.