

EnviProt

Advanced WOL PORTAL

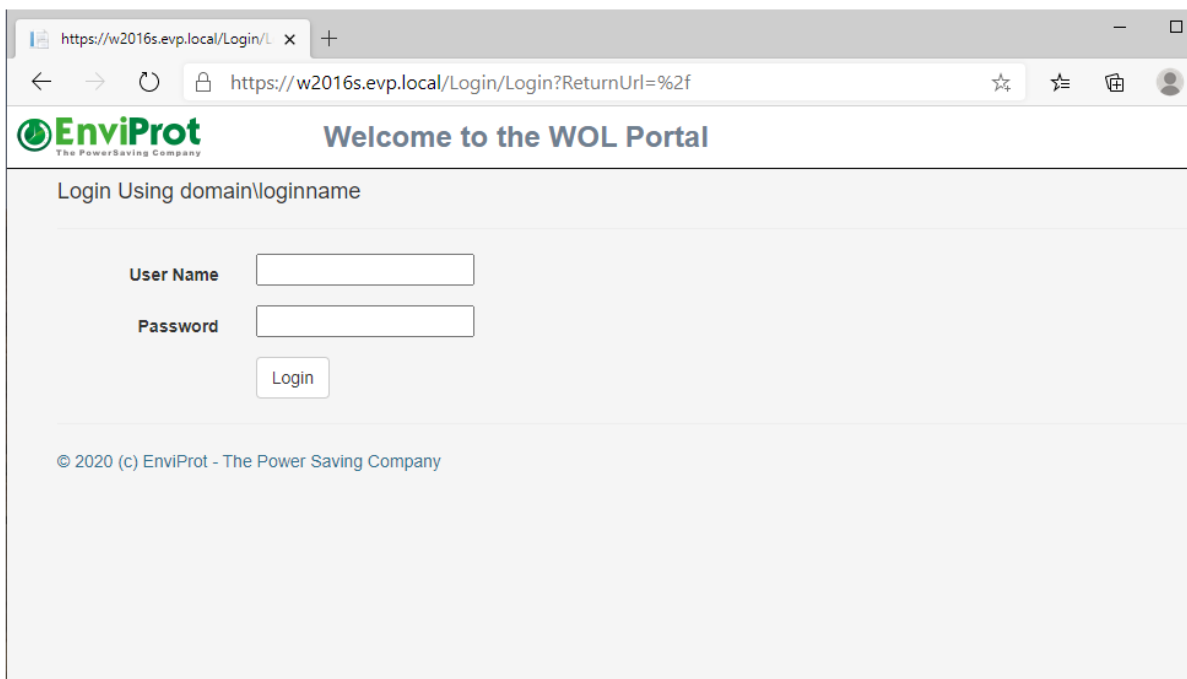
Quick Installation Guide

Overview

The EnviProt Advanced WOL Portal is an extension of an existing Auto Shutdown Manager infrastructure and is usually hosted on the customer's intranet.

Please note that this is a free prototype. You can use it privately or for business at your own risk without any guarantee from EnviProt.

The WOL portal is only available to valid domain users. PCs for WOL are assigned to users by the WOL portal administrators.



The screenshot shows a web browser window with the URL `https://w2016s.evp.local/Login/Login?ReturnUrl=%2f`. The page header features the EnviProt logo and the text "Welcome to the WOL Portal". Below the header, there is a section titled "Login Using domain\loginname". This section contains two input fields: "User Name" and "Password". Below the "Password" field is a "Login" button. At the bottom of the page, there is a copyright notice: "© 2020 (c) EnviProt - The Power Saving Company".

After successfully logging in, the users will see the PCs assigned to them and the current status of each PC that is reported by Ping.

Assigned office Computers to you:

W2016S.evp.local	ON detected via PING
wshplt.evp.local	>> Wake
main.evp.local	>> Wake
invalidPC	>> Wake
W2012R2.enviprot.local	>> Wake
EVP10PRO.enviprot.local	>> Wake

[Logout](#)

[Manage Users and PCs](#)

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Only Administrators of the WOL Portal also see the link to “**Manage Users and PCs**”. This will open the User Manager Console where users and PC assignments can be managed:

User Manager


User	Last Login Time	Is Portal Admin	Actions
evp[REDACTED]	8/29/2020 11:32:01 PM	<input type="checkbox"/>	Edit Details Delete
evp[REDACTED]	8/29/2020 11:04:30 PM	<input type="checkbox"/>	Edit Details Delete
evp[REDACTED]	8/31/2020 11:59:56 AM	<input checked="" type="checkbox"/>	Edit Details Delete

[+ Add New User](#) | [Back to WOL](#)

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New WOL Portal users can be added, edited and deleted:

Add a new WOL Portal user. The login name must match that of the user's Active Directory registration. Please also see “Automatically Import Users from Active Directory” below.

 **Welcome to the WOL Portal**

Add New User

Domain\Loginname

Is Portal Admin


☐

Create

[Back to List](#)

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Edit or assign PCs to the selected user:

 **Welcome to the WOL Portal**

Edit user evp\sales1

Login Name

Portal Admin

☐

PC Name	Enabled	Handling
<input type="text" value="salespc1.evp.local"/>	<input checked="" type="checkbox"/>	DELETE
<input type="text" value="testpc_salesteam.evp.local"/>	<input checked="" type="checkbox"/>	DELETE

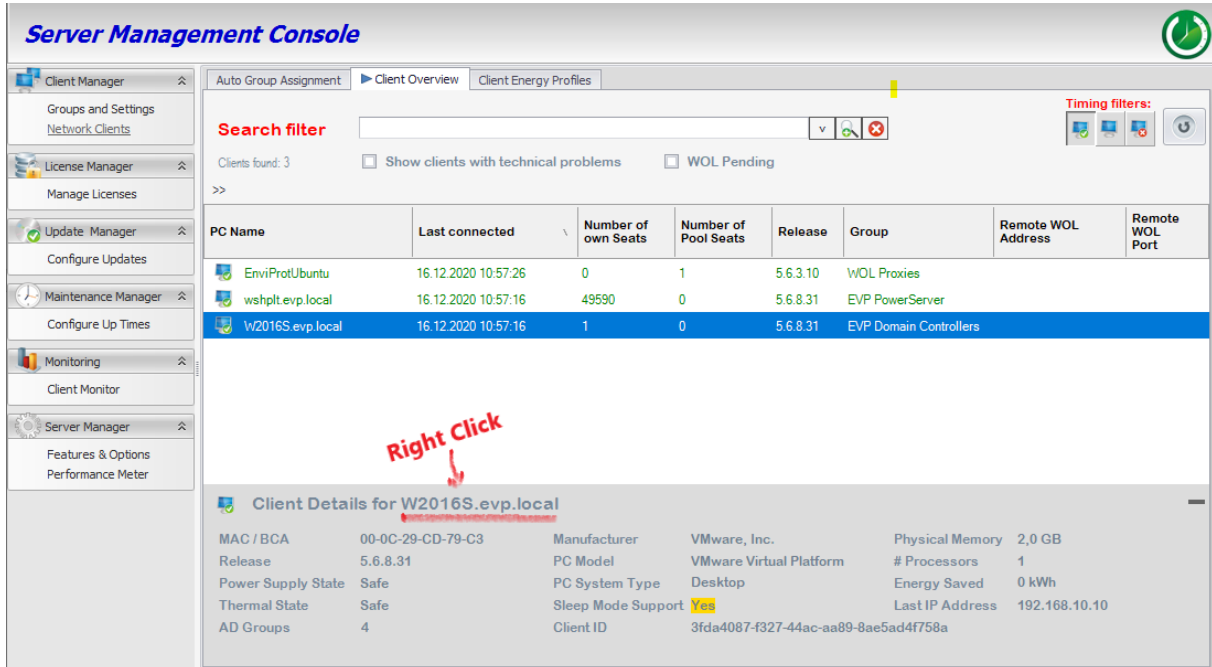
[+ ADD a new PC](#)

Save Data

[Back to List](#)

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Please make sure that the PC names correspond to the names shown by the Auto Shutdown Manager Server. You can easily copy the PC names by right-clicking on the name within the details panel:



Server Management Console

Auto Group Assignment | Client Overview | Client Energy Profiles

Search filter: [] [v] [x]

Clients found: 3 ☐ Show clients with technical problems ☐ WOL Pending

PC Name	Last connected	Number of own Seats	Number of Pool Seats	Release	Group	Remote WOL Address	Remote WOL Port
EnviProtUbuntu	16.12.2020 10:57:26	0	1	5.6.3.10	WOL Proxies		
wshpl.evp.local	16.12.2020 10:57:16	49590	0	5.6.8.31	EVP PowerServer		
W2016S.evp.local	16.12.2020 10:57:16	1	0	5.6.8.31	EVP Domain Controllers		

Right Click (indicated by a red arrow pointing to the PC name 'W2016S.evp.local')

Client Details for W2016S.evp.local

MAC / BCA	00-0C-29-CD-79-C3	Manufacturer	VMware, Inc.	Physical Memory	2,0 GB
Release	5.6.8.31	PC Model	VMware Virtual Platform	# Processors	1
Power Supply State	Safe	PC System Type	Desktop	Energy Saved	0 kWh
Thermal State	Safe	Sleep Mode Support	Yes	Last IP Address	192.168.10.10
AD Groups	4	Client ID	3fda4087-f327-44ac-aa89-8ae5ad4f758a		

Users only see PCs that are assigned to their user names and set as enabled.

Requirements

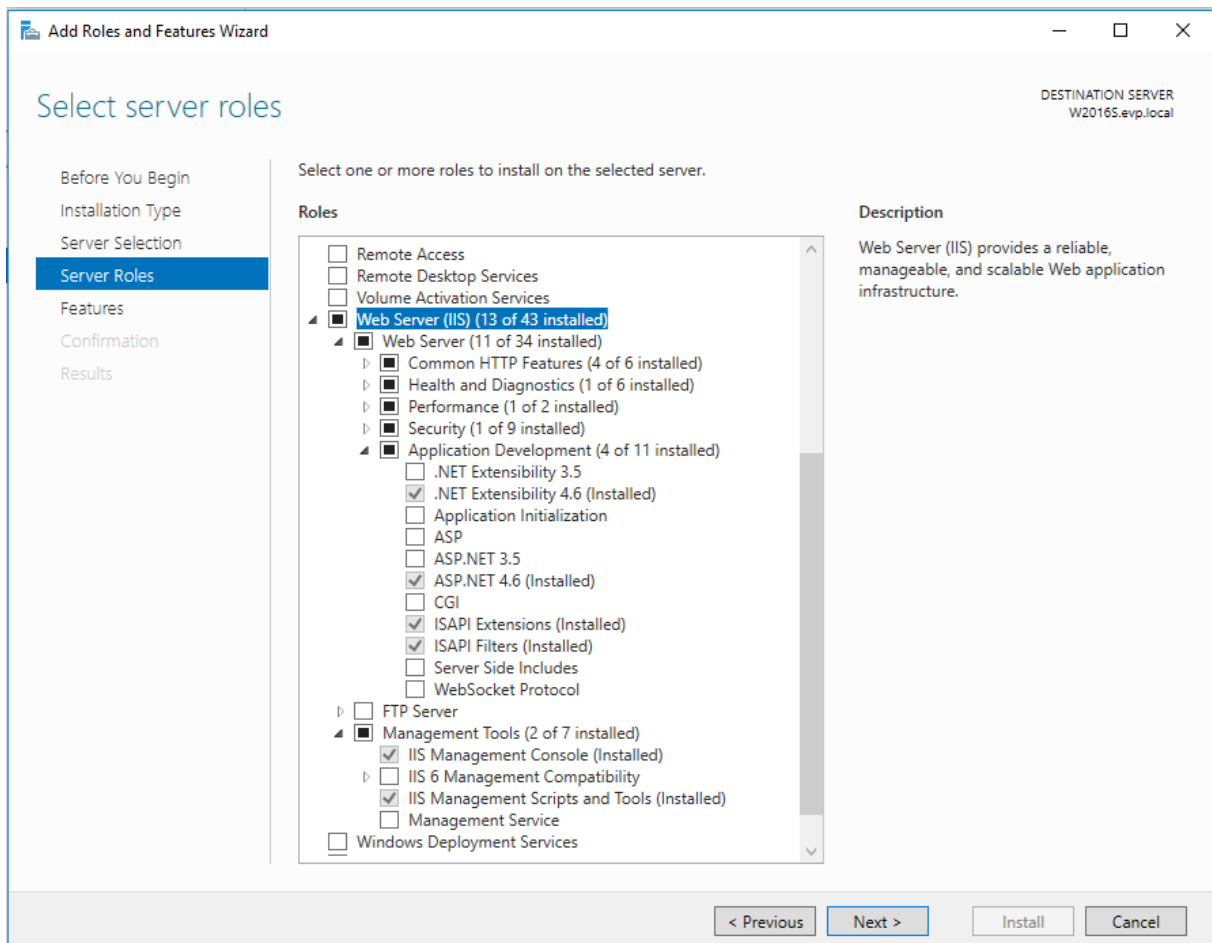
Auto Shutdown Manager Server (ASDM)

EnviProt Auto Shutdown Manager Server Version 5.6.9.2 or newer is required for this portal. Older versions may also work, but not all functionality will be supported.

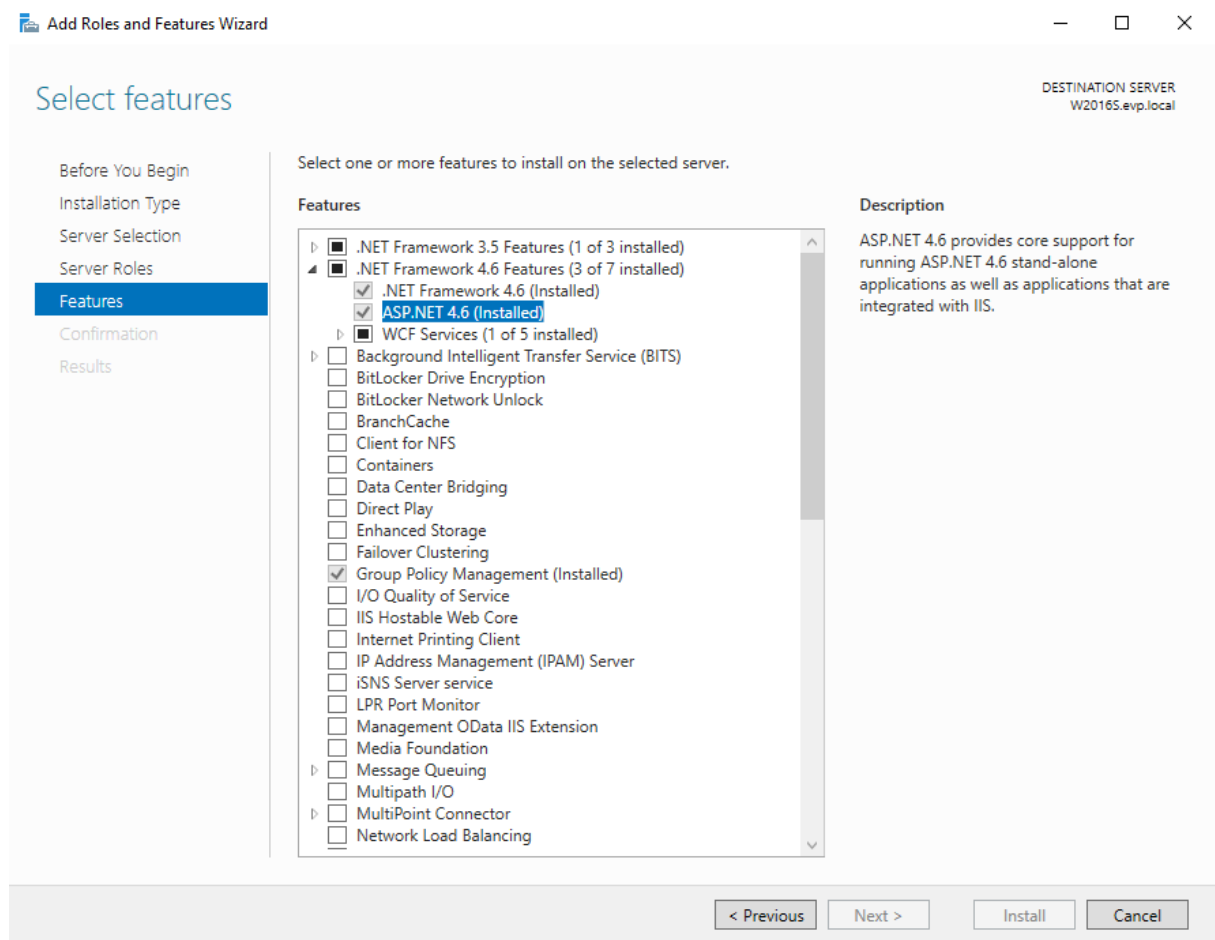
Internet Information Services (IIS)

Microsoft IIS running on Windows Server 2012R2 or newer.

IIS must be installed and activated on your Intranet first, including the Application Development roles for the latest .NET version:



Please make also sure that the Server Role ASP.NET 4.x is enabled:



For details and guidelines how to install and securely operate the IIS infrastructure please follow the instructions and recommendations from Microsoft.

SSL certificate

For security reasons the WOL Portal requires the **HTTPS** protocol. If you don't use an official SSL certificate, you can generate a personal certificate on the IIS server and create a HTTPS binding based on it. This way, however, the clients will be able to use the portal, but they will receive a security warning because of the self-signed certificate.

.NET Framework

Microsoft .NET Framework 4.7.2 or newer.

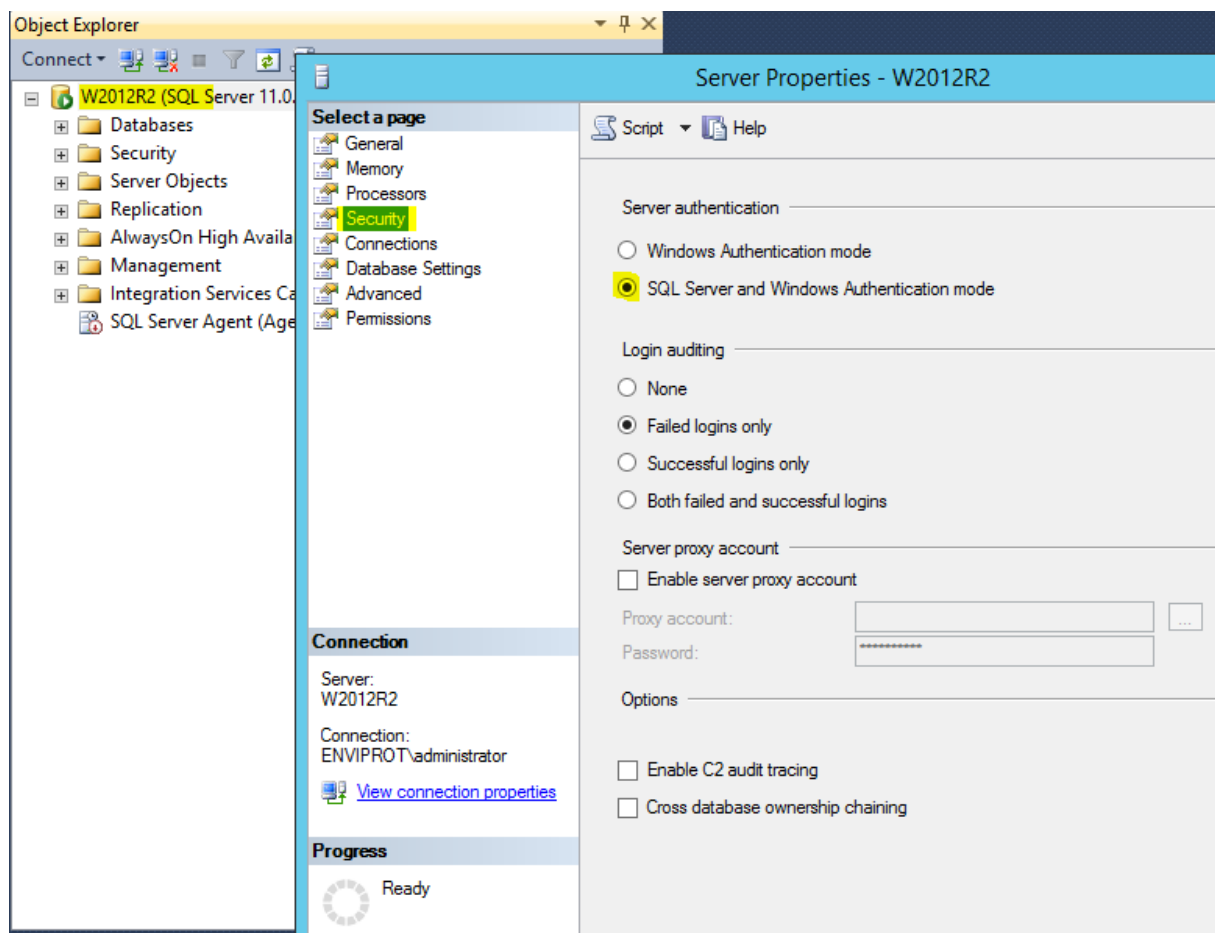
Please note, in some cases when you upgrade to the .NET version 4.7.2, you must also re-register it for ASP.NET: `aspnet_regiis -i`

SQL Server

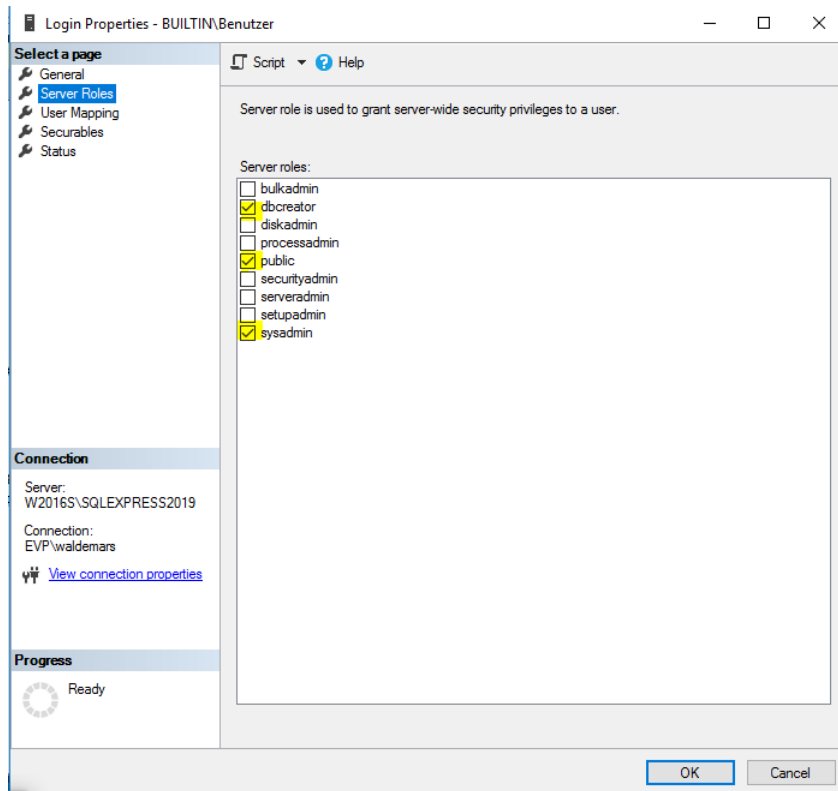
Microsoft SQL (Express) Server 2012 or newer.

Please note: The WOL Portal will need to create a database named: WOLPortal

To allow this, you can create an own Database Login (Management Studio -> YourSQLServer -> Security -> Logins). In this case, please make sure the SQL Server supports SQL AND Windows Authentication modes:



If you prefer using the BUILDIN/Users, open the SQL Server Management Studio -> Security -> Logins and double click on "BUILDIN/Users". Now, please make sure that at least the Server Roles **"public"**, **"dbcreator"** and **"sysadmin"** are set. You also can use your own settings and define them via the connection string, see below.



Otherwise the database will not be created and you will receive **Database Error** messages.

Installation

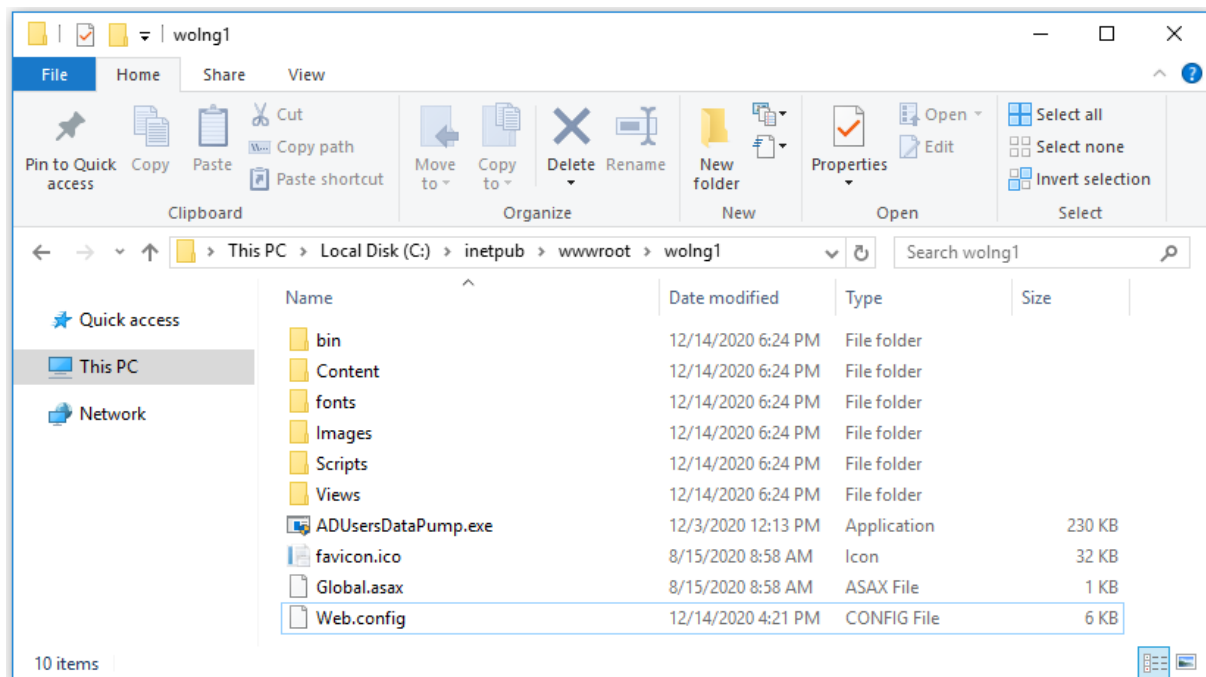
Please make sure that IIS, the SQL Server and the required .NET framework are installed – see Requirements on page 4 above for more details.

Get the Portal Application

If not already done, please download the Advanced WOL Portal ZIP File from <https://www.enviprot.com/Downloads>

Extract the ADVWebWOLPortal.ZIP File and copy the content to a new IIS inetpub\wwwroot folder like:

C:\inetpub\wwwroot\wolng1



Now, the access to your database location and the Auto Shutdown Manager Server must be configured.

Configure the Database Connection

Please open Web.config with a text editor of your choice.

Navigate to the section <connectionStrings> name="DBContextWOLPortal"...

Modify the connection data to address your database settings. The default setting is set to the local host and it expects an installed SQL instance named SQLEXPRESS2019 (.\SQLEXPRESS2019):

```

Web.config
6 <configuration>
7 <configSections>
8 <!-- For more information on Entity Framework configuration, visit http://go.microsoft.com/fwlink
9 <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.EntityFrameworkSect
10 <sectionGroup name="applicationSettings" type="System.Configuration.ApplicationSettingsGroup, Sy
11 <section name="WEBPortal.My.MySettings" type="System.Configuration.ClientSettingsSection, Syst
12 </sectionGroup>
13 </configSections>
14 <connectionStrings>
15 <add name="DbContextWOLPortal" connectionString="Data Source=.\SQLEXPRESS2019;Initial Catalog=WOL
16 </connectionStrings>
17 <appSettings>
18 <add key="webpages:Version" value="3.0.0.0" />
19 <add key="webpages:Enabled" value="false" />
20 <add key="ClientValidationEnabled" value="true" />
21 <add key="UnobtrusiveJavaScriptEnabled" value="true" />
22 </appSettings>
  
```

If you configured an own Database user, for example named "WOLPORTAL", you need to change the connection string by setting Integrated Security=False and adding the 'User Id=' and 'Password=' parameters like this:

```

<add name="DbContextWOLPortal" connectionString="Data
Source=.\SQLEXPRESS2019;Initial Catalog=WOLPortal;
User Id=WOLPORTAL;Password=ThePassword;Integrated Security=False"
providerName="System.Data.SqlClient" />
  
```

Please note there is one space between User and Id (User SPACE Id!)

Configure the Auto Shutdown Manager Server

Now navigate to the section <applicationSettings>

There, please add the DNS name or IP Address of your AutoShutdownManager Server.

The default server name is asdmctrl, which should be overwritten with your sever address.

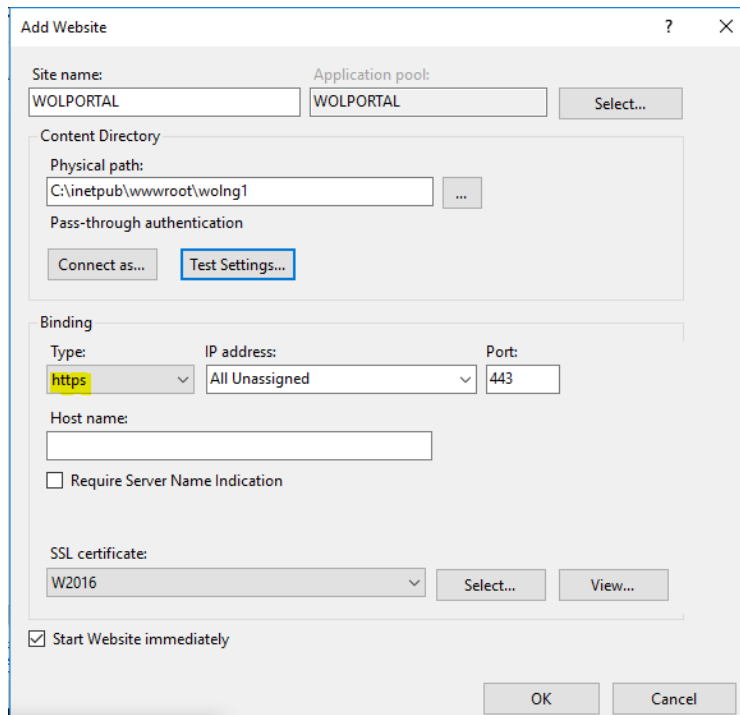
The default port address is 8088 and can be kept in most cases.

```

<applicationSettings>
  <WEBPortal.My.MySettings>
    <setting name="ASDMServer" serializeAs="String">
      <value>asdmctrl</value>
    </setting>
    <setting name="ASDMPort" serializeAs="String">
      <value>8088</value>
    </setting>
  </WEBPortal.My.MySettings>
</applicationSettings>
</configuration>
  
```

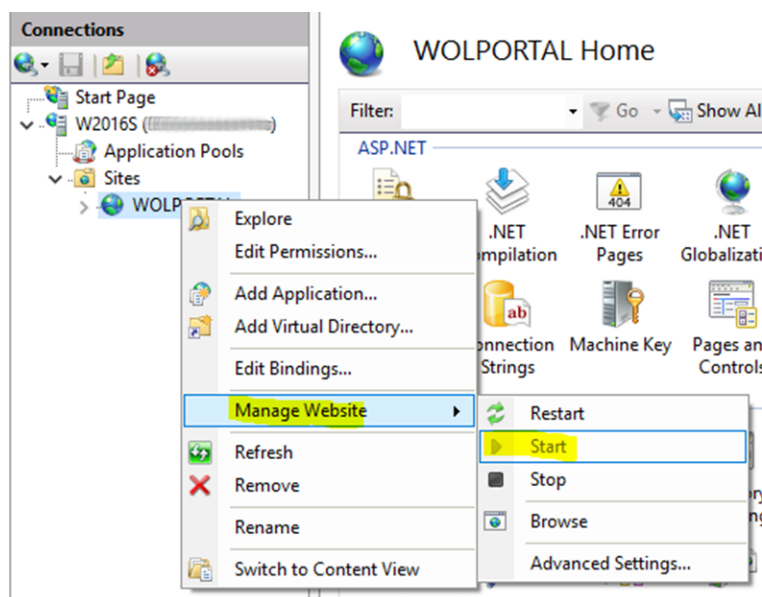
Add the Portal Site

Now open the Internet Information Services (IIS) Manager and create a new site:

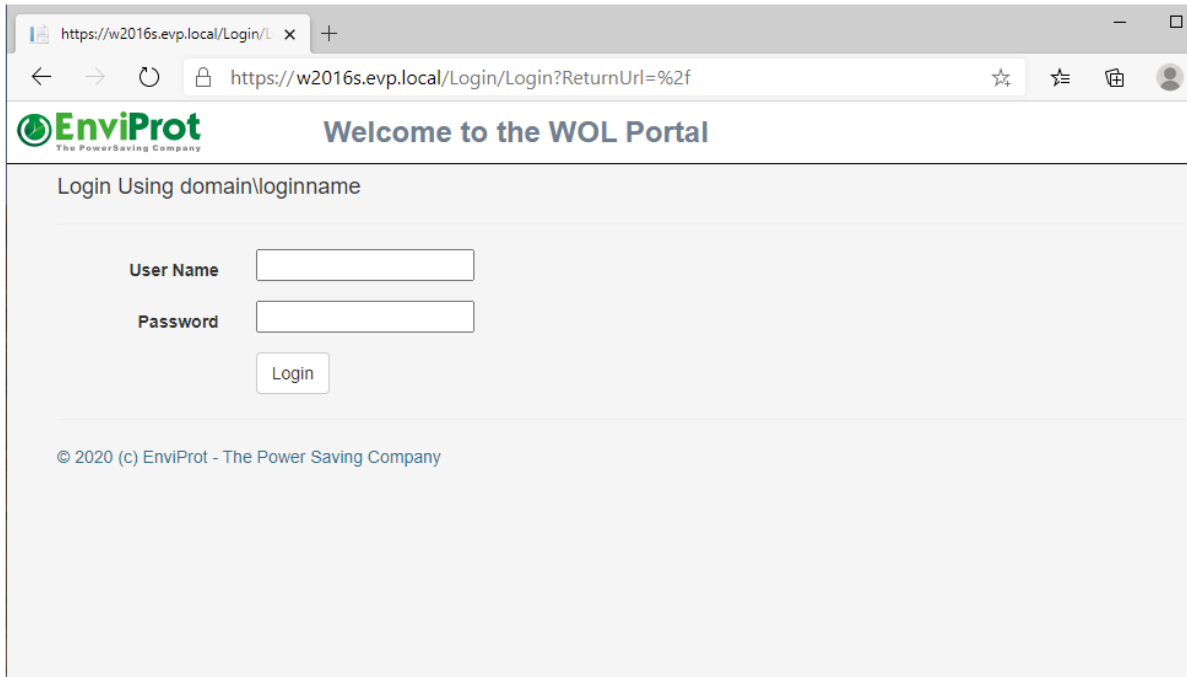


Make sure you select **https** for the binding and your SSL certificate (see requirements).

Now, make sure the site is started:



To test the portal, open the site in a web browser and use your domain credentials to log in:



The screenshot shows a web browser window with the URL `https://w2016s.evp.local/Login/Login?ReturnUrl=%2f`. The page header features the EnviProt logo and the text "Welcome to the WOL Portal". Below the header, the text "Login Using domain\loginname" is displayed. The login form consists of two input fields: "User Name" and "Password", followed by a "Login" button. At the bottom of the page, the copyright notice "© 2020 (c) EnviProt - The Power Saving Company" is visible.

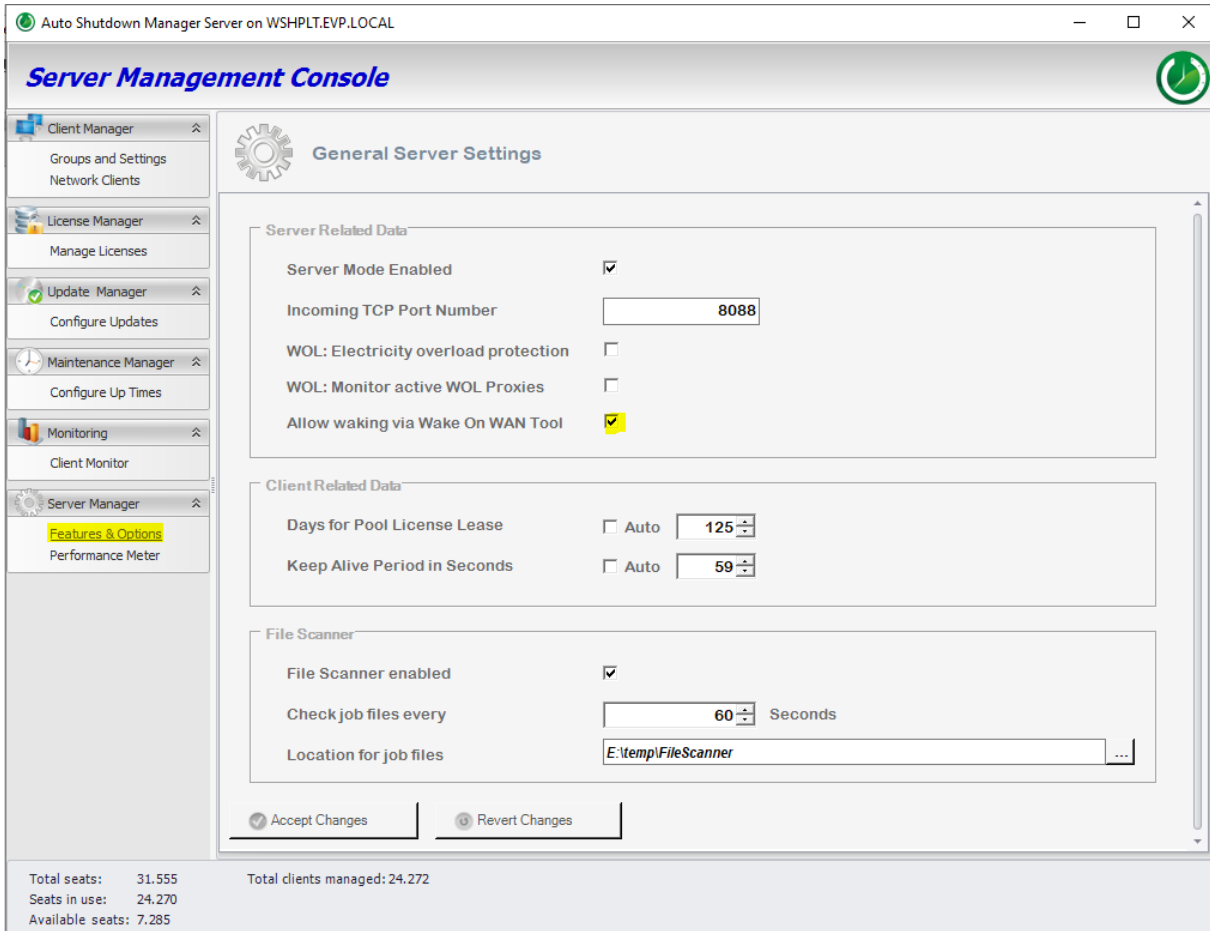
The very first logged in user automatically becomes the first WOL Portal Administrator. Further administrators and users can be added / edited / deleted.

Logging

The WOL Portal generates a log file with the most important events. The filename is "EVPWOLPORTAL_UserLog.csv" and can be found in the Windows Temp folder, typically under `C:\Windows\Temp`

Allow Remote WOL on the Auto Shutdown Manager Server

Finally, please make sure that the Auto Shutdown Manager server is configured to allow remote WOL waking:



The screenshot shows the 'Auto Shutdown Manager Server on WSHPLT.EVP.LOCAL' window. The 'Server Management Console' is open, displaying the 'General Server Settings' tab. The settings are organized into three sections: Server Related Data, Client Related Data, and File Scanner.

Server Related Data

- Server Mode Enabled: ☒
- Incoming TCP Port Number: 8088
- WOL: Electricity overload protection: ☐
- WOL: Monitor active WOL Proxies: ☐
- Allow waking via Wake On WAN Tool: ☒

Client Related Data

- Days for Pool License Lease: ☐ Auto 125
- Keep Alive Period in Seconds: ☐ Auto 59

File Scanner

- File Scanner enabled: ☒
- Check job files every: 60 Seconds
- Location for job files: E:\temp\FileScanner

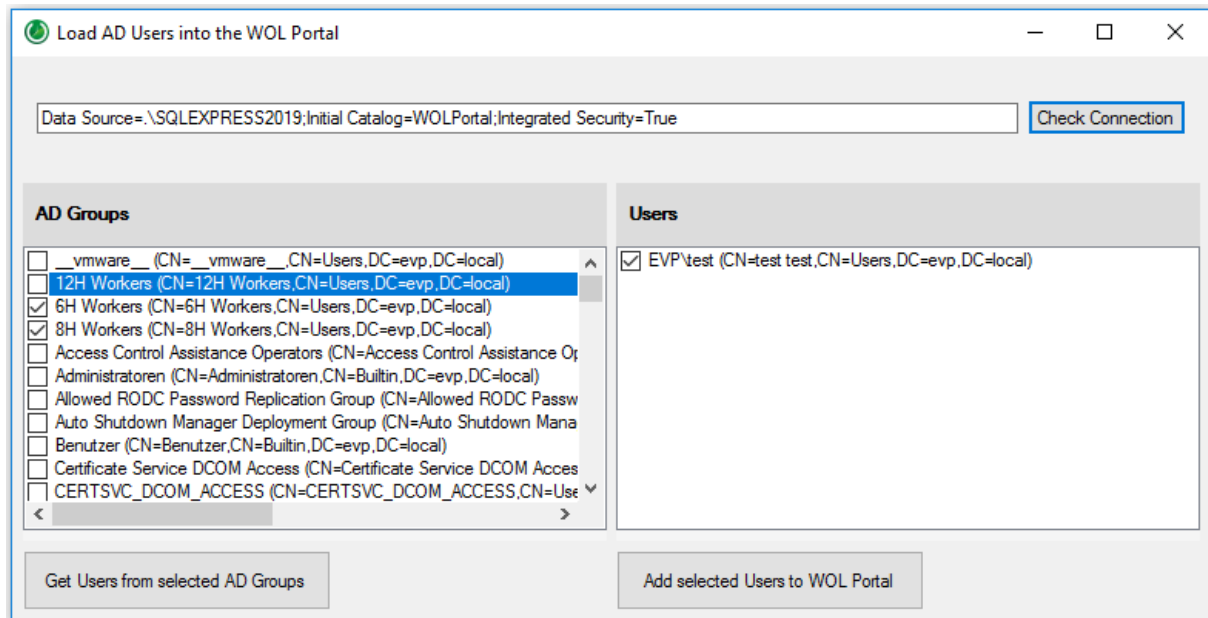
At the bottom of the settings panel, there are two buttons: 'Accept Changes' (checked) and 'Revert Changes'.

At the bottom of the console, the following statistics are displayed:

- Total seats: 31.555
- Seats in use: 24.270
- Available seats: 7.285
- Total clients managed: 24.272

Automatically Import Users from Active Directory

The ZIP file contains an additional tool called ADUsersDataPump.exe. With this tool you can import users from Active Directory into the WOL portal:



First, add the connection string as per your database settings and click "Check Connection" to make sure the database can be connected.

Now select the groups you want to import users from and click Get Users from Selected AD Groups.

Finally, you will see a list of all users from the corresponding Active Directory groups. Uncheck the users who should not be imported and click "Add selected users to WOL portal" to start the process.

Please contact us at support@enviprot.com if you have any questions, ideas or improvement requests.