

Eylean server deployment guide

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1 Minimum software and hardware requirements

- 1.1 SQL Express 2012, 2014 or 2016 with management studio installed, for newer version please check with support.
- 1.2 Internet information services 8.0 or greater installed.
- 1.3 Microsoft .NET 4.6 or newer

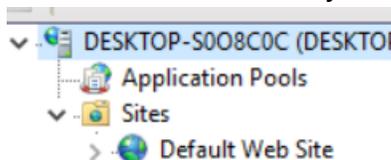
2 Setting up the server using Eylean.Server.Setup.exe wizard

If your server meets the requirements listed above, run the Eylean.Server.Setup.exe tool and follow the steps, in order to install or update the Eylean server software. In any other case (error during automated wizard setup, etc.) please follow the steps provided below to make a manual server setup or update, otherwise contact our support team.

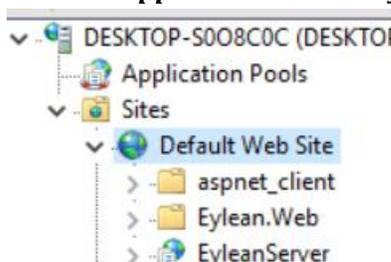
Note: When extracted from .zip the file structure should remain as it is in order to run the setup wizard properly.

3 Manual setup with Windows authentication - Setting up the website for data services

- 3.1 Create new **website** for Eylean server or use existing default **website**.



- 3.2 Add new **application** called "EyleanServer" to newly created or existing **website**.



3.3 Disable **anonymous** authentication.

3.4 Enable **windows** authentication.

Name	Status	Response Type
Anonymous Authentication	Disabled	
ASP.NET Impersonation	Disabled	
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Enabled	HTTP 401 Challenge

3.5 Choose application pool or create new one.

3.5.1 Make sure that chosen app pool runs on 4.0 version of .NET.

3.5.2 Make sure that chosen app pool is in integrated mode not classic.

Name	Status	.NET Fram...	Managed Pipel...	Identity
AppServerAppPool	Started	v4.0	Integrated	NetworkService
ASP.NET v4.0	Started	v4.0	Integrated	NetworkService

4 Manual Setup - Configure database

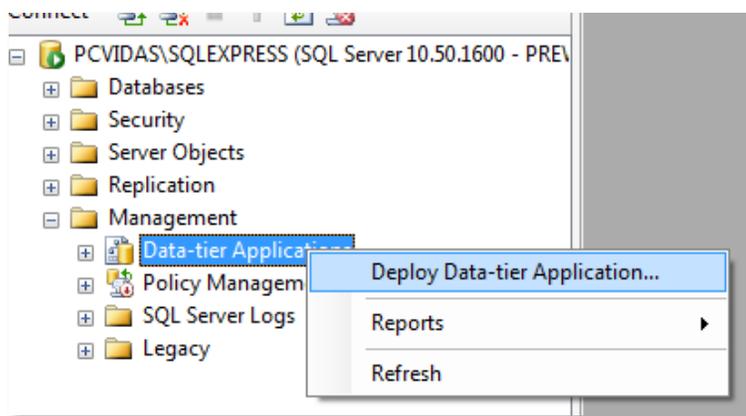
4.1 Open SQL management studio and connect to the desired instance.

4.2 Add new user which is the same as App Pool's identity account assigned to EyleanServer application.

Name	Status	.NET Fram...	Managed Pipel...	Identity
AppServerAppPool	Started	v4.0	Integrated	NetworkService 1
ASP.NET v4.0	Started	v4.0	Integrated	NetworkService
ASP.NET v4.0 Classic	Started	v4.0	Classic	NetworkService
Build site	Started	v2.0	Integrated	ApplicationPoolIdentity
Classic .NET AppPool	Started	v2.0	Classic	NetworkService
DefaultAppPool	Started	v2.0	Integrated	ApplicationPoolIdentity 2

There are two possible cases on which identity is used by IIS to access the database:

1. If the Pool identity is set to NetworkService then it will use “**NETWORK SERVICE**” account.
 2. In other case if the identity is set to ApplicationPoolIdentity, then IIS will use “**IIS AppPool\‘POOLSNAME’**” account where ‘**POOLSNAME**’_is the pools name on the first column for instance: “IIS AppPool\DefaultAppPool”.
- 4.3 Add new data-tier application by deploying included .dacpac file (**do not extract it, use it in the deployment wizard as single file**).
- 4.3.1 Be Sure that you are deploying with sysadmin or dbcreator privileged account, otherwise it will not create a required database¹.

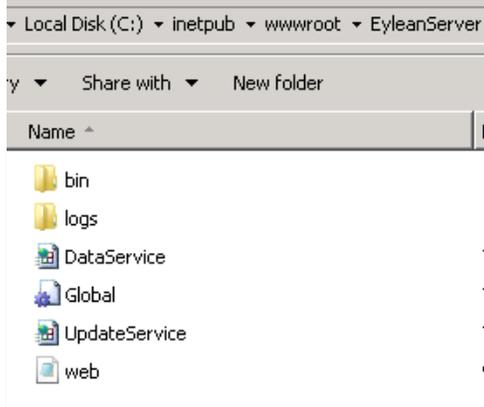


- 4.3.2 Set role for IIS user as database creator.
- 4.3.3 If you are using **Windows 8 or Windows server 2012** you need to make sure “Turn windows features on or off” HTTP activation under .NET 4.5 framework features is checked.
- .NET Framework 4.5 Features (Installed)
 - .NET Framework 4.5 (Installed)
 - ASP.NET 4.5 (Installed)
 - WCF Services (Installed)**
 - HTTP Activation (Installed)
 - Message Queuing (MSMQ) Activation
 - Named Pipe Activation
 - TCP Activation

¹ Sometimes there is an issue when only first step of deployment is run. It is caused by using a group login to connect to sql server. Try using different login to deploy the .dacpac file.

5 Deploy application

- 5.1 Copy application files into IIS mapped directory for EyleanServer **application**, if this is not done yet - create directory, map it, copy files.



- 5.2 Configure server application **web.config** file.

- 5.2.1 In web.config file find this element: '`<add name="Eylean" connectionString'` it should contain parameter named "Data source".

- 5.2.1.1 Set parameters value to your SQL instance URL (in most cases when there is local databases, set parameter to '.\ (sql instance name)', it indicates local SQL instance despite the naming).

- 5.2.2 Also you can specify main server administrator by adding two sections into the webconfig file:

- Add new configuration section definition:

```
<configSections>
<sectionGroup name="applicationSettings"
type="System.Configuration.ApplicationSettingsGroup, System,
Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089" >
<section name="EyleanServerApplication.Properties.Settings"
type="System.Configuration.ClientSettingsSection, System,
Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089"
requirePermission="false" />
</sectionGroup>
</configSections>
```

- Add default main admin section in application settings:

```
<applicationSettings>
<EyleanServerApplication.Properties.Settings>
<setting name="DefaultAdmin" serializeAs="String">
<value>DOMAIN\user</value> <!-- this is where you type in your
administrative Windows NT user account -->
```

```

    </setting>
  </EyleanServerApplication.Properties.Settings>
</applicationSettings>

```

5.2.3 Configure **e-mail notifications**, otherwise if web.config contains `<mailSettings>`, remove that tag and it's content:

- Add new section to `<system.net>` or configure existing one:

```

<mailSettings>
  <smtp from="noreply@eylean.com">
    <network host="smtp.mymailhost.com" port="587"
defaultCredentials="false" enableSsl="true" userName="john.smith"
password="password"/>
  </smtp>
</mailSettings>

```

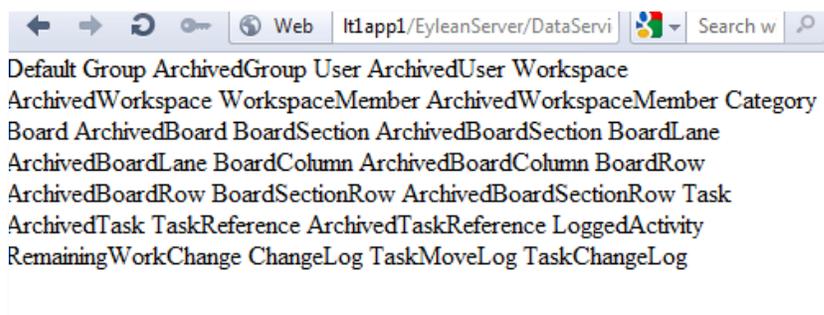
- If you will use default windows authentication you can define `defaultCredentials="true"`, then remove username and password attributes from config.
- If server does not use SSL for smtp you can specify `enableSsl="false"`.

6 Manual Setup - Test if the database is set up properly

Enter in your browser url of the Eylean server like this²:

<http://YOURDOMAIN/EyleanServer/DataService.svc>

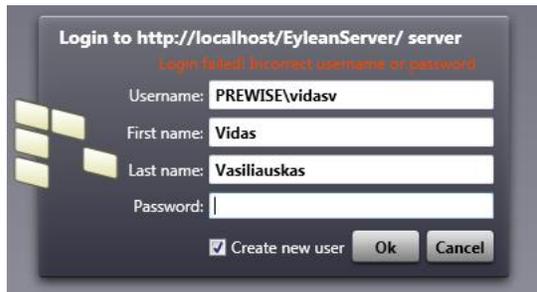
If everything is OK, you should see a simple list of entity names like there:



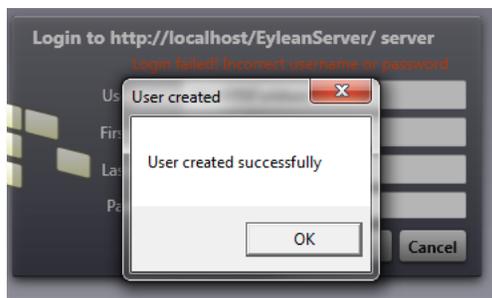
² When accessing this address you might be prompted for login, in this case use your Windows NT login.

7 Test if server is set up properly

Run Eylean client and select connect to server. Then add your server domain in servers list. Connect to it. If you are doing this first time it will show dialog saying that login failed, in this case check „**Create new user**“ option and fill in your details using windows NT account.



If succeeded, you will see message box „**User created successfully**“.



Finally, if no error messages are displayed, you have successfully connected to Eylean server. If this is the first time you are using this server, there will be no workspaces so you should **proceed to creating a new one**.

In other cases you should check:

- Database is up and running.
- You are using correct account to login.
- Your server is accessible.
- You have provided required permissions for mentioned identities in **paragraph 3**.
- See if <http://YOURDOMAIN/EyleanServer/DataService.svc/GetMyUser> address gives you information about your user without error messages.
- You can check **ExceptionsLog.log** file created in **Windows/temp/** folder in case of any exceptions in server.
- You can check **ExceptionsLog.log** file created in **My documents/Eylean/Logs/** folder in case of any client exceptions to have more information about unsuccessful connection attempts.

8 How to deploy server with Basic authentication mode

- In IIS make sure basic authentication is installed and **enabled** authentication and disable all other authentications

Name	Status	Response Type
Anonymous Authentication	Disabled	
ASP.NET Impersonation	Disabled	
Basic Authentication	Enabled	HTTP 401 Challenge
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Disabled	HTTP 401 Challenge

- In **web.config** file on server, find basicHttpBinding element and change **clientCredentialType** mode to Basic like this:

```
<security mode="TransportCredentialOnly">
  <transport clientCredentialType="Basic" /> // instead of windows
</security>
```

- On client machine, go to Eylean installation directory. By default it is [C:\Program Files\Eylean Board\](#)

- Find file **Eylean.exe.config** change **clientCredentialType** from Windows to basic:

```
<security mode="TransportCredentialOnly">
  <transport clientCredentialType="Basic" /> // instead of windows
</security>
```

9 How to update server

First of all, you need to visit <http://www.eylean.com> then go to download page and download server files (they already contain new version files). Extract somewhere (do not extract to the directory where current server files are located at this moment). You can either run setup file and choose update option or select all files (except web.config, eylean.dacpac and deployment guide) and copy them to the directory where current server files are placed and overwrite.

Attention: you do not need to update Database or upgrade data-tier application. Server files contains all the necessary update scripts to upgrade the database to the latest version.

10 Eylean server migration

To perform Eylean server migration, follow these steps:

1. In current server stop **IIS application** for Eylean server.
2. Do a backup of **MS SQL database** for Eylean.
3. On new machine **setup new Eylean server**.
4. Copy over **SQL backup**.
5. Delete newly created DB and restore one from backup instead.
6. Make sure your **web.config** for EyleanServer is updated.