

# How to setup Service Bus with a DNS address

This document provides the instructions to setup Service Bus for usage with a DNS name. In this example we will refer to the address icenter-dev.gorba.com. Change names/values in the document according to your context.

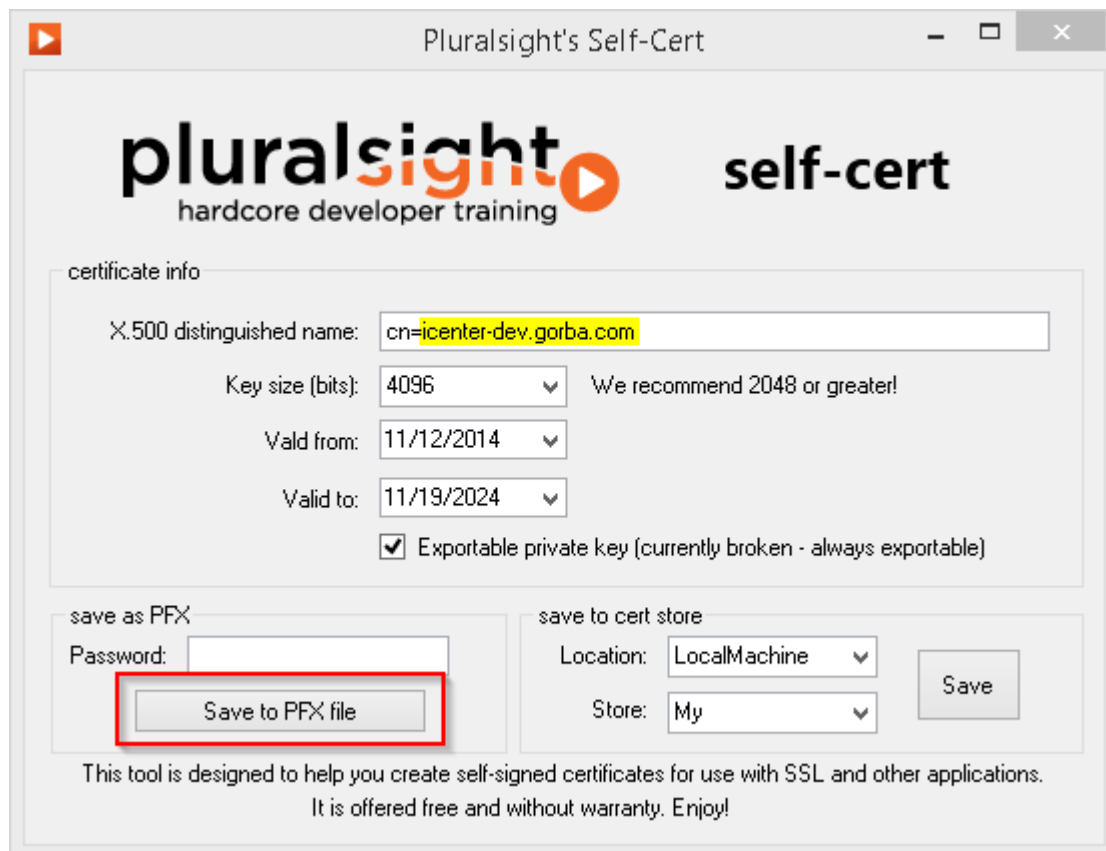
## 1 Open the Service Bus PowerShell console

All commands mentioned in the document must be executed from the Service Bus PowerShell console. You can open it from the Windows Start menu

## 2 Create and install the certificate

Create a valid certificate using the CN icenter-dev.gorba.com.

You can use the Pluralsight's Self-Cert tool (<http://blog.pluralsight.com/selfcert-create-a-self-signed-certificate-interactively-gui-or-programmatically-in-net>) and export the certificate to a PFX file.



The screenshot shows the 'Pluralsight's Self-Cert' application window. The title bar reads 'Pluralsight's Self-Cert'. The main content area features the Pluralsight logo and the text 'self-cert'. Below this, there is a 'certificate info' section with the following fields: 'X.500 distinguished name' (containing 'cn=icenter-dev.gorba.com'), 'Key size (bits)' (set to 4096), 'Valid from' (set to 11/12/2014), and 'Valid to' (set to 11/19/2024). A checkbox for 'Exportable private key (currently broken - always exportable)' is checked. At the bottom, there are two sections: 'save as PFX' with a 'Password:' field and a 'Save to PFX file' button (highlighted with a red rectangle), and 'save to cert store' with 'Location' (set to LocalMachine) and 'Store' (set to My) dropdowns, and a 'Save' button. A footer note states: 'This tool is designed to help you create self-signed certificates for use with SSL and other applications. It is offered free and without warranty. Enjoy!'.

Install the certificate on the server under **Local Machine\Personal** store<sup>1</sup>

Find the thumbprint for the certificate. You can use the following PowerShell commands:

```
pushd Cert:\LocalMachine\My
ls
```

You will need the Thumbprint later on.

### 3 Set the SB certificate

Set the SB certificate in the Service Bus PowerShell console

```
Set-SBCertificate -FarmCertificateThumbprint 631770553081E2FB628948A4E4245265D838E67B
-EncryptionCertificateThumbprint 631770553081E2FB628948A4E4245265D838E67B
```

Note: Replace the thumbprint values with the thumbprint of your certificate as evaluated in step 2

Restart the farm using the following commands:

```
Stop-SBFarm
Update-SBHost
Start-SBFarm
```

Remark: starting the SB farm can require several minutes

### 4 Create a namespace

Type the following command to create a namespace bound to the DNS entry

```
New-SBNamespace -AddressingScheme DNSRegistered -DnsEntry icenter-dev.gorba.com -Name
icenter-dev -PrimarySymmetricKey I10aA2qzGGwJn2xfSKlf0gslt7scFRsED5dmHh0hRbk= -ManageUsers
sb -IssuerName icenter-dev -IssuerUri icenter-dev.gorba.com
```

The primary symmetric key is used for security. It can be generated using the following PowerShell snippet:

```
$key = New-Object byte[](32)
$rng = [System.Security.Cryptography.RNGCryptoServiceProvider]::Create()
$rng.GetBytes($key)
[Convert]::ToBase64String($key)
```

Add the required authorization rules to the namespace, if any.

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<sup>1</sup> If applications using the ServiceBus are installed on the same server, it is also required to add the certificate to the **Local Machine\Trusted Root Certification Authorities** store