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.

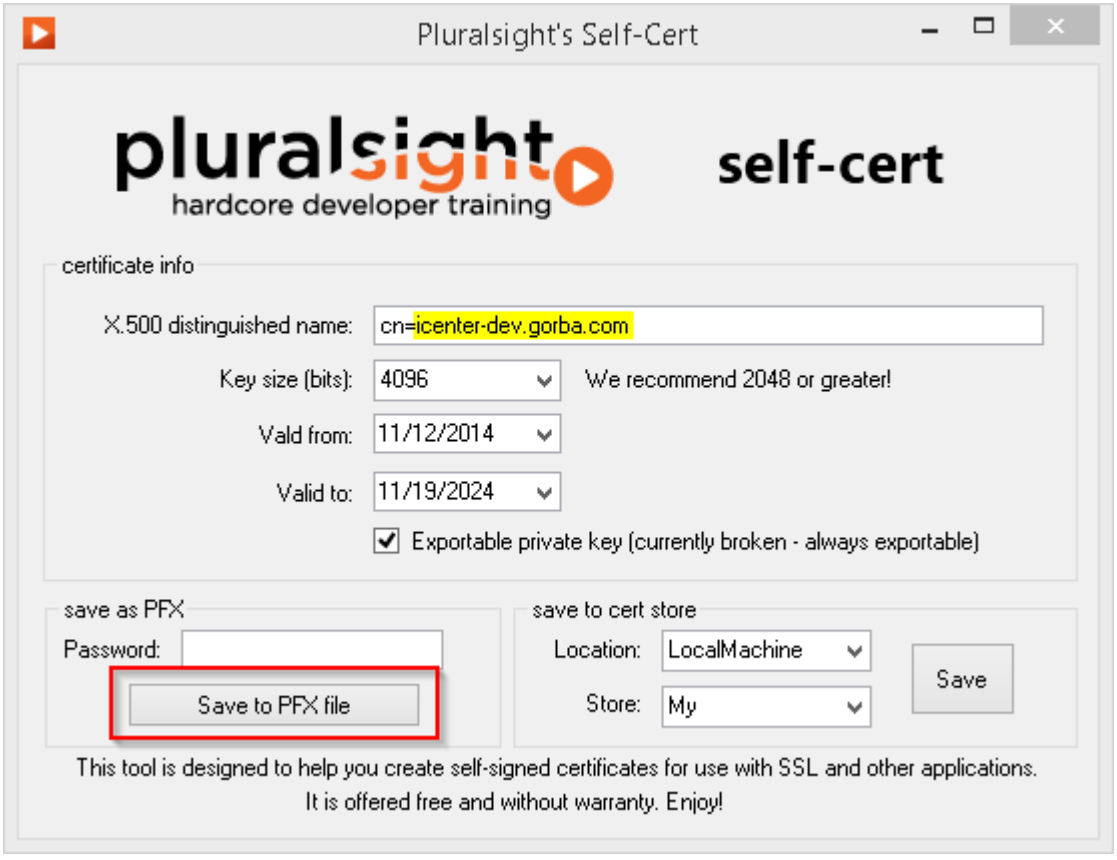
1 Open the Service Bus PowerShell console

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.



Install the certificate on the server under **Local Machine\Personal** store[1]

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.

[1] 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