

Re: Encrypt values for a key in appsettings

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2007-06/msg00057.html>

- *From:* Moty Michaely <Moty.Mi@xxxxxxxxxx>
 - *Date:* Fri, 01 Jun 2007 08:59:58 -0000
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On Jun 1, 11:10 am, Aneesh P <anees...@xxxxxxxxxx> wrote:

Thank you Moty for the info.

Actually i need to encrypt only the password fields and decrypt the same fields in the code. That's requirement. I am thinking of using TripleDESCryptoServiceProvider to encrypt the password. We can use one ciphertext and one key. Key can be placed in config file. Can we hardcode the ciphertext, considering the security aspects. Please correct me if this approach is wrong.

Regards
Aneesh P

Hi,

First of all there has been lot's of discussions on whether to save sensitive data in configuration files or not, and in my opinion try to avoid it.

But, I guess you've considered the security issues.

You don't have to decrypt the data when using the ProtectSection method. The framework does that for you. You load the setting seamlessly.

I would use the RsaProtectedConfigurationProvider.

To be able to encrypt only the sensitive data, create a new section in your application settings and encrypt only that section. I would suggest passing the information in the installer context (Custom Action).

```
Configuration config =  
ConfigurationManager.OpenExeConfiguration(<executable path>);  
if (config != null)  
{
```

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```
ConfigurationSection section =
config.GetSection(<section name>);
if (section != null)
{
// Make sure that the section is not yet
protected
if (!section.SectionInformation.IsProtected)
{
if (!section.SectionInformation.IsLocked)
{
//Protecting the specified section
with the specified provider

section.SectionInformation.ProtectSection("RsaProtectedConfigurationProvider");
// Force saving of the section
section.SectionInformation.ForceSave =
true;

config.Save(ConfigurationSaveMode.Modified);
}
}
}
```