

Cryptographic exception error when accessing Cora SeSequence sites

Last Modified on 03/24/2019 8:47 am EDT

Description

In environments with more than one server per Cora SeSequence component, the following error occurs:

Server Error in '/' Application.

Error occurred during a cryptographic operation.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.Security.Cryptography.CryptographicException: Error occurred during a cryptographic operation.

Source Error:

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

Stack Trace:

```
[CryptographicException: Error occurred during a cryptographic operation.]
System.Web.Security.Cryptography.HomogenizingCryptoServiceWrapper.HomogenizeErrors(Func`2 func, Byte[] input) +172
System.IdentityModel.Tokens.SessionSecurityTokenHandler.ApplyTransforms(Byte[] cookie, Boolean outbound) +167
System.IdentityModel.Tokens.SessionSecurityTokenHandler.ReadToken(XmlReader reader, SecurityTokenResolver tokenResolver) +786
System.IdentityModel.Tokens.SessionSecurityTokenHandler.ReadToken(Byte[] token, SecurityTokenResolver tokenResolver) +88
System.IdentityModel.Services.SessionAuthenticationModule.ReadSessionTokenFromCookie(Byte[] sessionCookie) +512
System.IdentityModel.Services.SessionAuthenticationModule.TryReadSessionTokenFromCookie(SessionSecurityToken& sessionToken) +258
System.IdentityModel.Services.SessionAuthenticationModule.OnAuthenticateRequest(Object sender, EventArgs eventArgs) +143
System.Web.SyncEventExecutionStep.System.Web.HttpApplication.IExecutionStep.Execute() +136
System.Web.HttpApplication.ExecuteStepImpl(IExecutionStep step) +195
System.Web.HttpApplication.ExecuteStep(IExecutionStep step, Boolean& completedSynchronously) +88
```

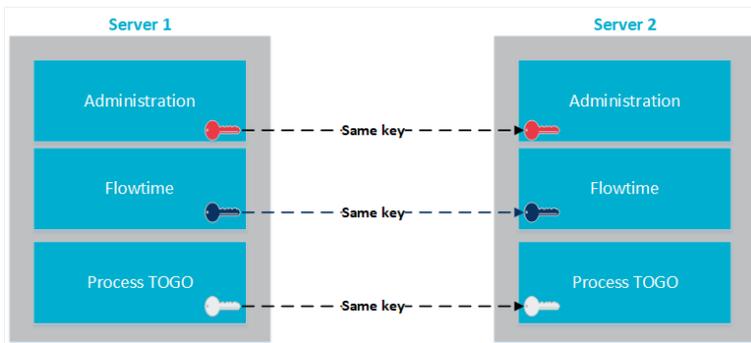
The error occurs when the user refreshes any of the Cora SeSequence pages, restarts working in the a site after a pause, or navigates between pages.

Cause

The load balancer redirects a user with an open session on one server to another server that uses a different encryption key.

Solution

Cora SeSequence components on different servers need to use the same encryption key.



Perform the following steps on each server that includes these Cora SeSequence components:

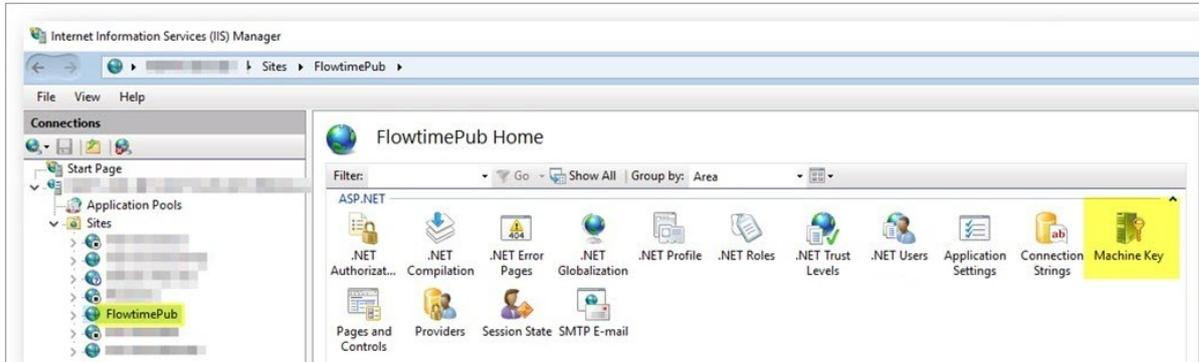
- Flowtime
- Administration
- Process TOGO

Edit the `web.config` file.

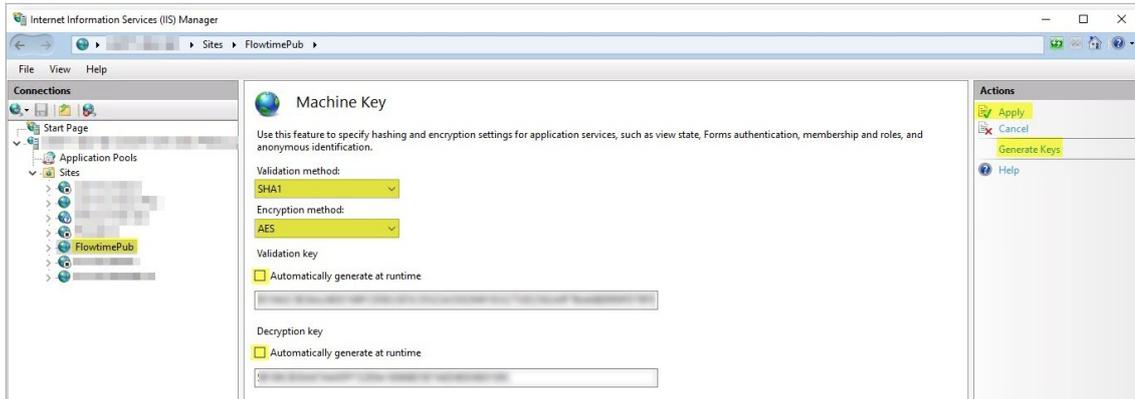
1. On all the servers with Cora SeSequence components, add the following code to the `web.config` file under `system.identitymodel` within `identityconfiguration` section.

Generate keys for all the Cora SeSequence sites

1. Open **Internet Information Services**, select the relevant Cora SeSequence site, and select the **Machine Key** feature.



2. Under Machine Key, configure the following:
 - a. **Validation method:** Set SHA1.
 - b. **Encryption method:** Set AES.
 - c. Clear the **Automatically generate at runtime** option.
 - d. Click **Generate Keys** to fill in the Validation key and Decryption key fields.



- e. Copy the generated keys.
You will use these keys to set up this component on the other server.
3. Repeat step 2 for all the Cora SeSequence *sites* on this server.
 4. Repeat steps 1-2 on the *remaining servers*.

Because you have already generated the keys, you do not need to generate new keys. Fill in the Validation key and Decryption key fields with the previously generated keys for the site.