

Security Advisory for CVE-2025-30406

Executive Summary

A vulnerability in how the application manages cryptographic keys used for **ViewState** integrity verification could allow an attacker to forge **ViewState** data. This can lead to unauthorized actions or, in some configurations, remote code execution. This issue is tracked as **CVE-2025-30406**.

Technical Description

The application uses a hardcoded or improperly protected **machineKey** in the IIS web.config file, which is responsible for securing ASP.NET ViewState data. If an attacker obtains or predicts the **machineKey**, they can forge ViewState payloads that pass integrity checks. In some scenarios, this can result in **ViewState deserialization attacks**, potentially leading to **remote code execution (RCE)** on the web server.

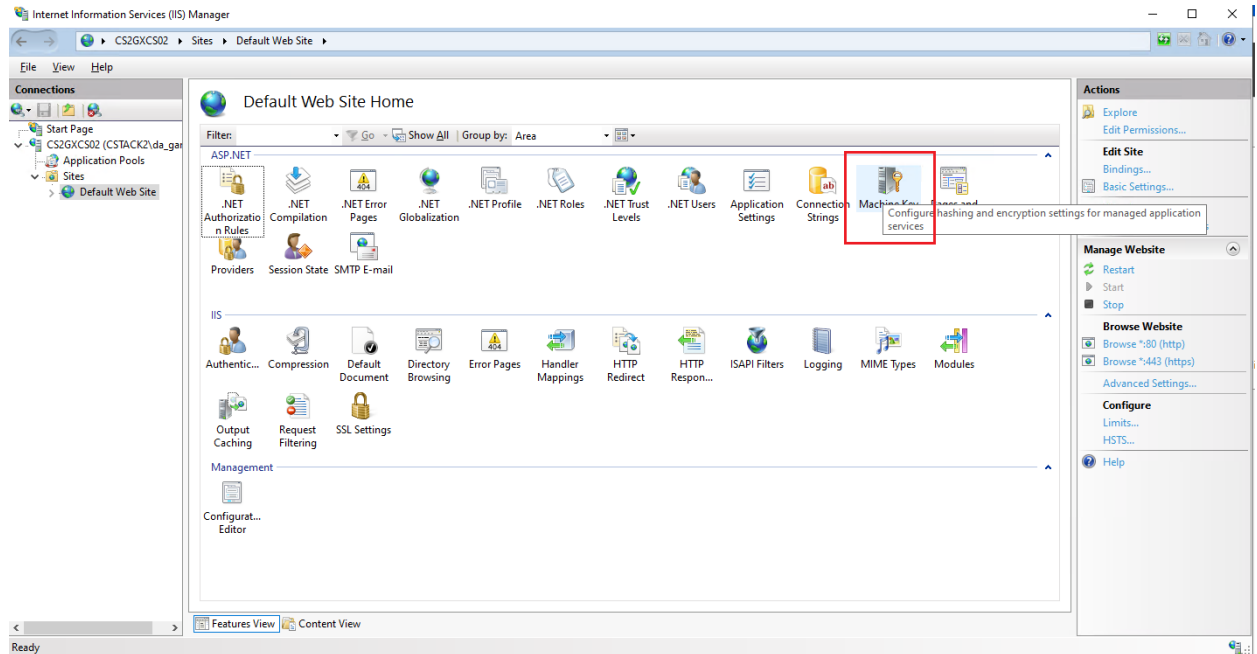
Exploitation has been observed in the wild. We strongly recommend updating to the patched version, which improves key management and mitigates exposure. For customers who cannot update immediately, rotating the **machineKey** values is a recommended interim mitigation.

Remediation

- Please consult the KB article here to generate a unique **machineKey** for your deployment. The article also covers additional configuration considerations relevant to secure Triofox installations.
https://support.triofox.com/hc/en-us/articles/4405656685335-Hardening-the-Triofox-Cluster#h_01JQXYCN9GWPB4EMDM5CEDDYS0
- A patched version (build 16.4.10317.56372) is available, which automatically generates a unique **machineKey** for each installation. The web installer for this build can be downloaded here:
<https://gladinet-support.s3.us-east-1.amazonaws.com/triofox/zip/TFInstaller16.4.10317.56372.exe>

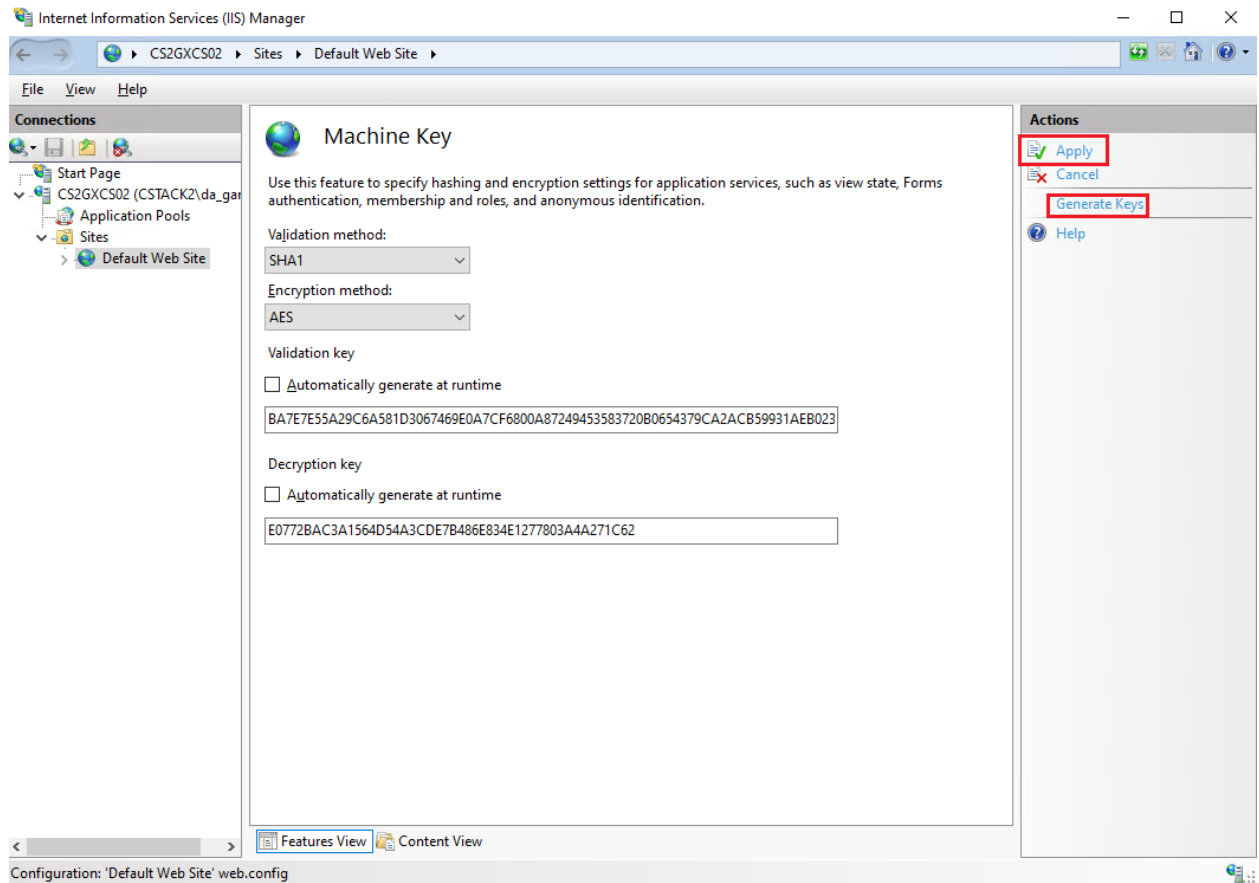
Running the installer on the Triofox server will upgrade the deployment to the patched version, during which a secure and unique **machineKey** will be generated and applied automatically.

- If upgrading to the patched version is not immediately possible, please follow the instructions below to manually generate and apply a new **machineKey**.
 1. On the Triofox server, go to the installation folder C:\Program Files (x86)\Triofox\root
 2. Make a backup of web.config
 3. Open Internet Information Services (IIS) Manager
 4. Select **Sites -> Default Web Site**. In the middle ASP.NET section, double click **Machine Key**.



5. It shows the current machine key used. Click **Generate Keys** on the right pane

6. A new machine key is generated. Click **Apply** to save it to root\web.config



7. Old installation has machine key stored in C:\Program Files (x86)\Triofox\portal\web.config too.
8. Go to portal folder. Make a backup of web.config here. Edit the file and remove the line starting with '<machineKey decryption'. Save the file.
9. If you have a single Triofox server, restart IIS after the change and the manual rotation of the machineKey is done.
10. If you have multiple worker nodes in a server farm, all nodes need to share the same machineKey. Follow the above procedure to generate a new machineKey on the first node. Copy the new machineKey generated on root\web.config to the rest of the nodes in the server farm.
11. Go to all other nodes. Make a backup of root\web.config. Edit root\web.config to use the same machineKey as the first node. Save the change.
12. Check portal\web.config on all other nodes. Delete the machineKey configuration if present.

13. Restart IIS on the nodes.