Vormetric Transparent Encryption

Patch Release Notes for Linux Agents

- **Release: 6.3.1.82**
- **Date: January 15, 2021**

New Feature Support

The VTE Agent for Linux can now be installed on systems using UEFI Secure Boot. For details about using this feature, see "VTE Agent Installation with UEFI Secure Boot" on the next page. Documentation for this feature can also be found in version 8 and higher of the 6.3.1 *VTE Agent Installation and Configuration Guide*, available at thalesdocs.com.

Resolved Issues

- **AGT-30885: Disable Efficient Storage feature during registration if XTS mode is not supported**

  Systems without AES XTS support should not allow the Efficient Storage feature to be installed because Efficient Storage requires XTS encryption keys.

  With this release of the VTE Agent, the DSM will disable the ES check box if the machine does not support XTS.

- **AGT29947 [CS1004144, CS1005946]: Need Secure Boot Support for VTE**

  Previous releases of the VTE Agent could not be installed on systems using UEFI Secure Boot because there was no matching public certificate that could be installed to certify the installation files.

  This issue has been fixed in this release of the VTE Agent.

VTE Agent Installation with UEFI Secure Boot

If you want to install the VTE Agent software on a Linux system that has UEFI Secure Boot enabled, you must first download the appropriate Thales public certificate and add that certificate to the MOK (Machine Owner Key) list on the host.

> **Note**
> The Thales public certificate is valid for three years from the date of issuance. Six months before the current public certificate is set to expire, Thales will release an advisory along with the new certificate that will become valid after the six month grace period expires. You can add the new certificate to the MOK list on all UEFI Secure Boot hosts any time before the old certificate expires and VTE will automatically start using the new certificate when the old certificate expires.

Public Certificate Naming Convention

The Thales public certificate name is `CTE_Secure_Boot_Cert_MM-DD-YYYY.der`. For example, `CTE_Secure_Boot_Cert_01-11-2021.der`.

Getting the Current Public Certificate

You can get the current public certificate in any of the following ways:

- From the VTE Agent installation file using the `-e` option. For example:

```
# ./vee-fs-6.3.1.82-rh8-x86_64.bin -e
Contents extracted.
# ls | grep CTE_Secure_Boot_Cert
CTE_Secure_Boot_Cert_01-11-2021.der
```

- From the Thales public directory https://packages.vormetric.com/pub/CTE_Secure_Boot/ or from the Thales Customer Support Portal (under KB0023449). The certificate on these sites is in PEM format, and must be converted to DER format before it can be added to the MOK list.

    For example, if the current certificate name is `CTE_Secure_Boot_Cert_01-11-2021.pem`, you could convert the certificate using the following command:

```
# openssl x509 -inform PEM -outform DER -in CTE_Secure_Boot_Cert_01-11-2021.pem \
-out CTE_Secure_Boot_Cert_01-11-2021.der
```

Adding the Certificate to the MOK List

> **Note**
> During this procedure, you will need to reboot the Linux host and then respond to a system prompt as soon as the host restarts. Make sure that all users accessing the host know that it will reboot and that you can respond to the system prompt as soon as the host restarts.

1. Log into the host as `root`.

2. Use the `mokutil --import <cert-name>` command to add the certificate to the MOK list. For example, if the certificate name is `CTE_Secure_Boot_Cert_01-11-2021.der`, you could enter:

```
# mokutil --import CTE_Secure_Boot_Cert_01-11-2021.der
```

3. Enter and confirm a password for this request when prompted.

4. Reboot the host and follow the instructions on the console when the host comes back online. You will need to enter the password you created in the previous step.

   If you do not respond to the system prompt to update the MOK when the host restarts, the prompt will time out and you will need to run the `mokutil` command again.

5. When prompted, reboot the host again.

6. After the host has been rebooted the second time you can verify that the certificate has been properly added to the MOK list using the `mokutil --test-key` command. For example:

```
# mokutil --test-key CTE_Secure_Boot_Cert_01-11-2021.der
CTE_Secure_Boot_Cert_01-11-2021.der is already enrolled
```

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- (800) 545-6608

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