



CipherTrust Transparent Encryption

Patch Release Notes for Linux Agents

- **Release 7.1.1.84**
- **Date: May 20, 2022**
- **Document Version 1**

New Features and Enhancements

Teradata Disk Expansion with IDT-Capable Devices

- Thales enhanced CTE to support storage expansion in a Teradata cluster.

Note: See [Generate IDT-Capable metadata for Teradata Storage Expansion](#) for information on how to use this new feature.

Resolved Issues

- **AGT-39072 [CS1314546]: Database crashed three times after upgrading the OS patch and CTE**

A problem existed where a flag was not properly initialized on a per CPU memory allocation. This resulted in strict allocation (no reclaim). The allocation failed unexpectedly when the system was under moderate to severe memory pressure, resulting in a failed IO. This issue affected the AIO/DIO code path. The problem exists for all systems running a 3.18 kernel or subsequent kernel. This issue has been fixed. The flag is now set properly.

Technical Addendum

Generate IDT-Capable metadata for Teradata Storage Expansion

You can use the `voradmin td expand` command to configure new disks as IDT-capable devices during Teradata disk expansion.

Note

Guard each new device using the same policy applied to an existing guarded IDT-Capable device.

Note

Only use this option on new disks added during Teradata disk expansion.

After the new disk is visible to all members of the clique, perform the following steps to configure the new disk:

1. Configure the new disk using the following command on any node in the clique.

```
voradmin td expand <newDiskName> <existingDiskName>
```

Note: Do not run this command on the same device on multiple nodes.

2. Guard the new device on the DSM/CipherTrust Manager on all members of the clique.

For disk expansion that includes the addition of a new node to the clique, perform the following steps:

1. Install CTE on the new node and register the node to the DSM/CipherTrust Manager, but **DO NOT** add the node to the host/client group, if using one.

2. On the new node, create the CTE Metadata directory, type:

```
mkdir -p /opt/teradata/vormetric/vte-metadata-dir
```

3. On one of the existing nodes in the clique, run the `voradmin td distribute` option to copy all existing metadata to the new node, type:

```
voradmin td distribute < node1 name, node2 name, etc..> <device>
```

4. On the same node selected in step 3, use the `voradmin td expand` option to configure the new disk as an IDT-Capable device, type.

```
voradmin td expand <newDiskName> <existingDiskName>
```

Note: The `td expand` option must be run on each new disk.

5. On DSM/CipherTrust Manager, guard the new disk in the host/client group. You can verify that the new disk is now guarded on all nodes except the new node.
6. On the DSM/CipherTrust Manager, add the new node as a member to the host/client group. Once the new node is added as a member, DSM/CipherTrust Manager will push the security policy to the new node and guard all of the disks with metadata files on the new node.

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