



安全性與資料加密 Cloud Volumes ONTAP

NetApp
May 19, 2022

目錄

安全性與資料加密.....	1
使用 NetApp 加密解決方案加密磁碟區	1
改善防範勒索軟體的能力	1

安全性與資料加密

使用 NetApp 加密解決方案加密磁碟區

支援NetApp Volume Encryption (NVE) 和NetApp Aggregate Encryption (NAE) Cloud Volumes ONTAP。NVE 和 NAE 是軟體型解決方案、可對磁碟區進行 (FIPS) 140-2 相容的閒置資料加密。"深入瞭解這些加密解決方案"。

外部金鑰管理程式支援NVE和NAE。

新的Aggregate在您設定外部金鑰管理程式之後、預設會啟用NAE。非 NAE Aggregate 一部分的新磁碟區預設會啟用 NVE (例如、如果在設定外部金鑰管理程式之前已建立現有的 Aggregate)。

不支援內建金鑰管理。Cloud Volumes ONTAP

您的支援系統應該已向 NetApp 註冊。Cloud Volumes ONTAPNetApp Volume Encryption授權會自動安裝在Cloud Volumes ONTAP 每個註冊NetApp支援的支援系統上。

- "新增 NetApp 支援網站帳戶至 Cloud Manager"
- "註冊隨用隨付系統"



Cloud Manager 不會在中國地區的系統上安裝 NVE 授權。

步驟

1. 檢閱中支援的關鍵管理程式清單 "NetApp 互通性對照表工具"。



搜尋 * 關鍵經理 * 解決方案。

2. "連線 Cloud Volumes ONTAP 至 CLI"。
3. 設定外部金鑰管理。

"如ONTAP 需相關指示、請參閱《產品資訊》文件"。

改善防範勒索軟體的能力

勒索軟體攻擊可能會耗費一定的時間、資源和商譽。Cloud Manager 可讓您針對勒索軟體實作 NetApp 解決方案、提供有效的可見度、偵測及補救工具。

步驟

1. 在工作環境中、按一下 * 勒索軟體 * 圖示。



2. 實作 NetApp 勒索軟體解決方案：

- 如果您的磁碟區未啟用 Snapshot 原則、請按一下「* 啟動 Snapshot Policy*」。

NetApp Snapshot 技術提供業界最佳的勒索軟體補救解決方案。成功還原的關鍵在於從未受感染的備份還原。Snapshot 複本為唯讀、可防止勒索軟體毀損。他們也能提供精細度、以建立單一檔案複本或完整災難恢復解決方案的映像。

- 按一下「* 啟動 FPolicy*」以啟用 ONTAP 的 FPolicy 解決方案、此解決方案可根據檔案副檔名來封鎖檔案作業。

這項預防解決方案可封鎖常見的勒索軟體檔案類型、藉此改善保護、避免勒索軟體攻擊。

預設 FPolicy 範圍會封鎖下列副檔名的檔案：

微、加密、鎖定、加密、加密、crinf, r5a、XRNT, XDBL、R16M01D05、Pzdc、好、好！、天哪！、RDM、RRK、加密RS、crjoker、EnCipErEd、LeChiffre



Cloud Manager 會在 Cloud Volumes ONTAP 啟用 FPolicy on 功能時建立此範圍。此清單是根據常見的勒索軟體檔案類型。您可以使用 Cloud Volumes ONTAP 來自於整個 CLI 的 `_yscoper fpolicy soon__` 命令來自訂封鎖的副檔名。

Ransomware Protection

Ransomware attacks can cost a business time, resources, and reputation. The NetApp solution for ransomware provides effective tools for visibility, detection, and remediation. [Learn More](#)

1 Enable Snapshot Copy Protection

50 % Protection

1 Volumes without a Snapshot Policy

To protect your data, activate the default Snapshot policy for these volumes

Activate Snapshot Policy

2 Block Ransomware File Extensions

ONTAP's native FPolicy configuration monitors and blocks file operations based on a file's extension.

View Denied File Names

Activate FPolicy

Copyright Information

Copyright © 2022 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.