



启用SMB 3加密会降低CIFS性能

https://kb-cn-stage.netapp.com/on-prem/ontap/Perf/Perf-KBs/Enabling_SMB_3_encryption_reduces_CI...

Updated: Wed, 22 Apr 2026 07:30:35 GMT

适用场景

- ONTAP 9
- SMB 3
- SMB签名和/或SMB加密
- FAS 2500 系列

问题描述

- 启用SMB 3加密后、观察到CIFS会话的吞吐量降低或延迟增加
- SMB签名已启用、此时将显示以下消息：

```
Node: FAS2554-01 Time: Tue, May 03 20:44:54 2022 -0400 Severity: ALERT Message: Nblade.  
cifsNonAesNiBytesProc: Excessive SMB3 cryptographic processing load (AES-NI instruction set is not  
supported). Description: This message occurs when a system with CPUs that do not support the AES-NI  
instruction set is performing SMB3 encryption or signing of a large amount of data. These cryptographic  
operations can degrade performance severely for both SMB and other system operations. Corrective Action:
```

'NetApp provides no representations or warranties regarding the accuracy or reliability or serviceability of any information or recommendations provided in this publication or with respect to any results that may be obtained by the use of the information or observance of any recommendations provided herein. The information in this document is distributed AS IS and the use of this information or the implementation of any recommendations or techniques herein is a customers responsibility and depends on the customers ability to evaluate and integrate them into the customers operational environment. This document and the information

Avoid encrypted or signed SMB3 traffic on systems that do not support the AES-NI instruction set. Source: SMBOffloadPool_00 Sequence#: 1065458