



# **Planning for LUN security on the storage arrays**

## **ONTAP FlexArray**

NetApp  
February 11, 2024

This PDF was generated from [https://docs.netapp.com/us-en/ontap-flexarray/install/concept\\_available\\_lun\\_security\\_methods.html](https://docs.netapp.com/us-en/ontap-flexarray/install/concept_available_lun_security_methods.html) on February 11, 2024. Always check docs.netapp.com for the latest.

# Table of Contents

Planning for LUN security on the storage arrays .....	1
Available LUN security methods .....	1

# Planning for LUN security on the storage arrays

If you are using your ONTAP system with storage arrays, you must use a LUN security method to eliminate the possibility of a non-ONTAP system overwriting array LUNs owned by an ONTAP system, or vice versa.

LUN security is a method for isolating the hosts that can access particular array LUNs. LUN security is similar to switch zoning in concept, but it is performed on the storage array. *LUN security* and *LUN masking* are equivalent terms to describe this functionality.



The ONTAP disk ownership scheme prevents one ONTAP system from overwriting an array LUN owned by another ONTAP system. However, it does not prevent an ONTAP system from overwriting an array LUN accessible by a non-ONTAP host. Likewise, without a method of preventing overwriting, a non-ONTAP host could overwrite an array LUN used by an ONTAP system.

## Available LUN security methods

Various LUN security methods help you designate which hosts can access particular array LUNs. You can use port-level security or LUN security products, or dedicate a storage for use by ONTAP systems.

### Port-level security

You can use port-level security to present only the array LUNs for a particular host. That port then becomes dedicated to that host.

Not all storage arrays support port-level security. Some storage arrays present all LUNs on all ports by default, and they do not provide a way to restrict the visibility of LUNs to particular hosts. For these arrays, you must either use a LUN security product or dedicate the storage array to the ONTAP system. You should check your storage array documentation to determine whether your storage array supports port-level security.

### LUN security products

You can use a LUN security product to control hosts that are zoned to the same port so that they can access only specific array LUNs over that port. This prevents other hosts from accessing those same array LUNs by masking them from the other hosts.

### Dedicate the storage array for ONTAP use

You can dedicate the storage array for use by ONTAP systems. In this case, no hosts other than the ONTAP systems are connected to the storage array.

You should use both zoning and LUN security to achieve added protection and redundancy for the ONTAP systems.

In addition to following the LUN security methods, you should also check for any additional details regarding LUN security for your vendor's storage arrays. Some storage arrays must be dedicated for use by ONTAP systems.

### Related information

FlexArray virtualization implementation for third-party storage

FlexArray virtualization implementation for NetApp E-Series storage

## Copyright information

Copyright © 2024 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.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## 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.