



## **Technical reports**

### **E-Series Systems**

NetApp  
November 02, 2022

# Table of Contents

- Technical reports ..... 1
  - Browse platform technical reports ..... 1
  - Browse security technical reports ..... 1
  - Browse featured technical reports ..... 1
  - Browse solution technical reports ..... 2

# Technical reports

## Browse platform technical reports

### Platform TRs

#### [TR-4725: E2800 arrays feature overview](#)

Describes the hardware and software features of the E2800 hybrid array and the latest SANtricity OS features.

#### [TR-4724: E5700 arrays feature overview](#)

Describes E5700 product information including new hardware and software features introduced with the latest version of SANtricity.

#### [TR-4877: EF300 arrays feature overview](#)

Describes the hardware and software features of the EF300 all-flash array and new SANtricity OS features.

#### [TR-4800: EF600 arrays feature overview](#)

Describes the hardware and software features of the EF600 all-flash array and new SANtricity OS features.

## Browse security technical reports

### Security TRs

#### [TR-4474: SANtricity Drive Security Feature Guide](#)

Describes the full disk encryption feature for E-Series systems, including support for FIPS 140-2 validated drives, and both internal and external key management support.

#### [TR-4712: SANtricity Management Security Features](#)

Describes SANtricity security features for NetApp E-Series E2800, E5700, EF280, EF570, EF300, and EF600 storage systems.

#### [TR-4813: Managing Certificates for E-Series Systems](#)

Describes how to manage security certificates with the latest E-Series controllers and applications.

#### [TR-4855: Security Hardening Guide for SANtricity](#)

Describes how to deploy SANtricity to meet prescribed security objectives for information system confidentiality, integrity, and availability.

#### [TR-4853: Access Management for E-Series Systems](#)

Describes how to configure Access Management, including role-based access control (RBAC), Lightweight Directory Access Protocol (LDAP) and Security Assertion Markup Language (SAML).

## Browse featured technical reports

## Feature TRs

### [TR-4893: SANtricity Remote Storage Volumes](#)

Describes the solution architecture and how to use the E-Series storage system to import data from an existing remote storage device.

### [TR-4839: SANtricity Synchronous and Asynchronous Mirroring](#)

Describes the SANtricity Synchronous and Asynchronous Mirroring feature.

### [TR-4747: SANtricity Snapshot Feature Overview and Deployment Guide](#)

Describes the SANtricity Snapshot feature including GUI navigation instructions using SANtricity System Manager.

### [TR-4652: SANtricity Dynamic Disk Pools](#)

Describes how storage administrators can group sets of like disks into a pool topology where all the drives in the pool participate in the I/O workflow.

### [TR-4737: SANtricity Automatic Load Balancing](#)

Describes an overview of the behavior of the ALB feature, its key configuration parameters, and its host interoperability enhancements.

### [TR-4736: SANtricity Web Services API](#)

Describes an overview of SANtricity Web Services, an API used for configuring and managing E-Series storage systems.

## Browse solution technical reports

### Splunk

#### [TR-4623: E5700 with Splunk Enterprise](#)

Describes the integrated architecture of the E5700 system and Splunk design. This document also summarizes the performance test results obtained from a Splunk machine log event simulation tool.

#### [TR-4903: EF300 with Splunk Enterprise](#)

Describes the integrated architecture of the EF300 all-flash array and Splunk design. This document also summarizes the performance test results obtained from a Splunk machine log event simulation tool.

#### [TR-4930: EF600 with Splunk Enterprise](#)

Describes the integrated architecture of the EF600 all-flash array and Splunk design. This document also summarizes the performance test results obtained from a Splunk machine log event simulation tool.

### Enterprise Databases

#### [TR-4764: Best Practice Guide for Microsoft SQL Server with NetApp EF-Series](#)

Helps storage administrators and database administrators successfully deploy Microsoft SQL Server on NetApp EF-Series storage.

#### [TR-4794: Oracle Databases on NetApp EF-Series](#)

Helps storage administrators and database administrators successfully deploy Oracle on NetApp EF-Series storage.

### Backup & Recovery

### **TR-4320: Best Practices with Commvault Data Platform V11**

Describes the reference architecture and best practices when using NetApp E-Series storage in a Commvault Data Platform V11 environment.

### **TR-4471: Best Practices with Veeam Backup and Replication**

Describes the reference architecture and best practices when using NetApp E-Series storage in a Veeam Backup & Replication 9.5 environment.

### **TR-4704: Deploying Veritas NetBackup with NetApp E-Series Storage**

Describes the deployment of Veritas NetBackup on NetApp E-Series storage.

## **VSS**

### **TR-4825: NetApp E-Series for Video Surveillance Best Practice Guide**

Describes best practices for deploying E-Series arrays into video surveillance environments.

### **TR-4818: Virtualizing Video Management Systems with NetApp E-Series Storage**

Describes how to design and deploy video management systems with NetApp E-Series storage.

### **TR-4848: Bosch Video Recording Solution with NetApp E-Series E2800 Disk Storage Array**

Describes the video surveillance solution architecture and includes details of the components and storage best practices.

### **TR-4838: E2800 and E5700 with Milestone XProtect VMS Certification Report**

Describes the certification test results performed on NetApp E2800 and E5700 hybrid storage arrays.

### **TR-4771-DESIGN: NetApp E-Series and Genetec video management software**

Describes the certification results of Genetec Security Center Video Management Software (VMS) on the NetApp E2800 and E5700 hybrid storage arrays.

## **HPC**

### **TR-4884: Entry-level HPC systems with NetApp E-Series and IBM Spectrum Scale**

Describes the reference architecture for entry-level HPC systems based on NetApp E-Series storage systems and IBM Spectrum Scale.

### **TR-4859: Deploying IBM Spectrum Scale with NetApp E-Series Storage**

Describes the process of deploying a full parallel file system solution based on IBM's Spectrum Scale software stack.

### **TR-4856: BeeGFS High Availability with E-Series using Red Hat Enterprise Linux Server**

Describes the required configurations for implementing high availability in a BeeGFS architecture backed by the NetApp E-Series system and using RedHat Enterprise Linux for BeeGFS storage, metadata and management services.

### **TR-4862: BeeGFS High Availability with E-Series using SUSE Linux Enterprise Server**

Describes the required configurations for implementing high availability in a BeeGFS architecture backed by the NetApp E-Series system and using SUSE Linux Enterprise Server for BeeGFS storage, metadata, and management services.

## 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.

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.