



NFS transition: supported and unsupported configurations, and required manual steps

ONTAP 7-Mode Transition

Ivana Devine
March 25, 2021

Table of Contents

- NFS transition: supported and unsupported configurations, and required manual steps 1
 - Supported configurations for transition 1
 - Unsupported configurations in ONTAP 2
 - Configurations that must be manually transitioned 2
 - Configurations that are functionally different in ONTAP 2

NFS transition: supported and unsupported configurations, and required manual steps

Some NFS configurations are not transitioned to ONTAP because they are not supported in ONTAP, there are functionality differences from 7-Mode, or they must be manually transitioned. You should verify all of the precheck errors and warning messages to evaluate the impact of such configurations on transition.

Supported configurations for transition

At a high level, the following NFS configurations are transitioned by the 7-Mode Transition Tool:

- NFS options:
 - `nfs.udp.xfersize`
 - `nfs.v4.id.domain`
 - `nfs.v4.acl.max.aces`
 - `nfs.tcp.xfersize`
 - `nfs.rpcsec.ctx.high`
 - `nfs.rpcsec.ctx.idle`
 - `nfs.response.trigger`
 - `wapl.default_nt_user`
 - `nfs.mount_rootonly`
 - `nfs.tcp.enable`
 - `nfs.udp.enable`
 - `nfs.response.trace`
 - `nfs.v4.read_delegation`
 - `nfs.v4.write_delegation`
 - `nfs.v4.acl.enable`
 - `nfs.vstorage.enable`
 - `nfs.v3.enable`
 - `nfs.v4.enable`

- NFS export rule:

If the export rule is configured with the `-actual` option, the exported path (alias path) is ignored and the export rule is configured with the actual path.

- Export rules with Kerberos security `krb5p`
- Kerberos configuration

See the precheck results for details about these NFS configurations.

Unsupported configurations in ONTAP

The following NFS configurations are not supported in ONTAP:

- Subvolume NFS exports other than qtree-level NFS exports
- WebNFS
- PC-NFS
- NFSv2
- Fencing of NFS clients from one or more file system paths
- Some NFS options

See the precheck warning messages for a complete list of unsupported options.

Configurations that must be manually transitioned

There are some NFS configurations that are supported in ONTAP, but are not transitioned by the 7-Mode Transition Tool.

The following NFS configurations generate a warning message in the precheck operation, and you must manually apply the configurations on the SVM:

- NFS audit configuration
- NFS options:
 - `rpc.nsm.tcp.port`
 - `rpc.nsm.udp.port`
 - `rpc.mountd.tcp.port`
 - `rpc.mountd.udp.port`
 - `nfs.export.neg.timeout`
 - `nfs.export.pos.timeout`
 - `nfs.export.harvest.timeout` Use the `vserver nfs modify` command to modify the configuration of an NFS-enabled storage virtual machine (SVM).
- Export rules with Kerberos security `krb5p`

Configurations that are functionally different in ONTAP

The following NFS configurations are functionally different in ONTAP:

- NFS export rules
- NFS export access cache
- NFS diagnostic commands
- Support for the `showmount` command

- NFS Kerberos encryption
- NLM version support

Related information

[NFS management](#)

Copyright Information

Copyright © 2021 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.