



# **LUN discovery fails due to iSCSI daemon limitation**

## **Snapdrive for Unix**

Ivana Devine  
January 21, 2021

# Table of Contents

LUN discovery fails due to iSCSI daemon limitation ..... 1  
    Workaround ..... 1

# LUN discovery fails due to iSCSI daemon limitation

SnapDrive for UNIX commands fail to discover the LUNs after continuous multiple iterations.

You may see the following error message.

```
0000-001 Admin error: iscsi transport protocol has dropped sessions in the host. Please ensure the connection and the service in the storage system.
```

This happens because of the iSCSI daemon limitation in the following hosts:

- Red Hat Enterprise Linux 4.0
- Oracle Enterprise Linux 4.0

## Workaround

Before modifying the following system parameters, contact the OS vendor.

1. Add the **fs.file-max** parameter to the `/etc/sysctl.conf` file.

The following is an example in the command-line.

```
# sysctl -w fs.file-max=65536
```



We recommend to set the parameter value to 65536, but you can also set the value depending on the applications on your host.

2. Assign 65536 to the **fs.file-max** parameter.
3. Update the default shell `start-up` file for the root user's UNIX account.
  - For the Bourne, Bash, or Korn shell, add the following lines to the `/etc/profile` file by running the following command:

```
cat >> /etc/profile <<EOF
if [ \${USER} = "root" ]; then
if [ \${SHELL} = "/bin/ksh" ]; then
ulimit -p 16384
ulimit -n 65536
else
ulimit -u 16384 -n 65536
fi
umask 022
fi
EOF
```

- For the C shell (csh or tcsh), add the following lines to the `/etc/csh.login` file by running the following command:

```
cat >> /etc/csh.login <<EOF
if ( \${USER} == "root" ) then
limit maxproc 16384
limit descriptors 65536
endif
EOF
```

4. Add the following parameters to the `/etc/security/limits.conf` file by running the following command:

```
root soft nofile 65536
root hard nofile 65536
```

5. Activate all the kernel parameters for the system by executing the following command: `sysctl -p`

## 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.