



Changing speed of ISL ports on a Cisco FC switch

ONTAP MetroCluster

netapp-ivanad, ntap-bmegan
April 12, 2021

Table of Contents

Changing speed of ISL ports on a Cisco FC switch 1

Changing speed of ISL ports on a Cisco FC switch

You might need to change the speed of ISL ports on a switch to improve the quality of the ISL. ISLs traveling greater distances might need their speed lowered to improve quality.

You must complete all the steps on both switches to ensure ISL connectivity.

1. Disable the ISL ports of the ISLs that you want to change the speed of on both switches in the fabric:

```
FC_switch_A_1# config t
```

Enter configuration commands, one per line. End with CTRL-Z after you have entered all of the configuration commands.

```
FC_switch_A_1(config)# interface fc1/36
FC_switch_A_1(config-if)# shut
FC_switch_A_1(config)# end
```

2. Change the speed of the ISL ports on both switches in the fabric:

```
FC_switch_A_1# config t
```

Enter configuration commands, one per line. End with CTRL-Z after you have entered all of the configuration commands.

```
FC_switch_A_1(config)# interface fc1/36
FC_switch_A_1(config-if)# switchport speed 16000
```



Speeds for ports are 16 = 16,000 Gbps, 8 = 8,000 Gbps, 4 = 4,000 Gbps.

Ensure that these ISL ports for your switch are listed in the *Fabric-attached MetroCluster Installation and Configuration Guide*.

3. Enable all ISL ports (if not enabled) on both switches in the fabric:

```
FC_switch_A_1# config t
```

Enter configuration commands, one per line. End with CTRL-Z after you have entered all of the configuration commands.

```
FC_switch_A_1(config)# interface fc1/36
FC_switch_A_1(config-if)# no shut
FC_switch_A_1(config)# end
```

4. Verify the ISLs are established between both switches:

show topology isl

	Local			Remote			VSAN	Cost	I/F	PC		
I/F	Band	PC	Domain	SwName	Port	Port	SwName	Domain	PC	Stat	Stat	
Speed	width											

16g	1	0x11	cisco9	fc1/36	fc1/36	cisco9	0xbc	1	1	15	up	up
	64g											
16g	1	0x11	cisco9	fc1/40	fc1/40	cisco9	0xbc	1	1	15	up	up
	64g											
16g	1	0x11	cisco9	fc1/44	fc1/44	cisco9	0xbc	1	1	15	up	up
	64g											
16g	1	0x11	cisco9	fc1/48	fc1/48	cisco9	0xbc	1	1	15	up	up
	64g											

5. Repeat the procedure for the second switch fabric.

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.