



Enable NAS storage for Windows servers using SMB/CIFS

ONTAP System Manager

Amanda Stroman, Barb Einarsen, Mark Forry, Thom Illingworth
January 13, 2020

This PDF was generated from https://docs.netapp.com/us-en/ontap/task_nas_enable_windows_smb.html on November 19, 2020. Always check docs.netapp.com for the latest.

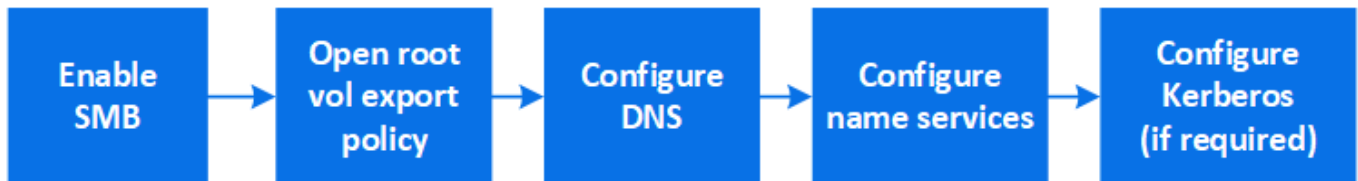
Table of Contents

Enable NAS storage for Windows servers using SMB/CIFS 1





Enable NAS storage for Windows servers using SMB/CIFS

Modify storage VMs to enable SMB servers for serving data to Windows clients.

This procedure enables an existing storage VM. It is assumed that configuration details are available for any authentication or security services required in your environment.



Steps

1. Enable SMB/CIFS on an existing VM: click **Storage** > **Storage VMs**, select a storage VM, click **Settings**, and then click  under **SMB/CIFS**.
2. Open the export policy of the storage VM root volume:
 - a. Click **Storage** > **Volumes**, select the root volume of the storage VM (which by default is *volume-name_root*), and then click on the policy that is displayed under **Export Policy**.
 - b. Click **Add** to add a rule.
 - Client specification = **0.0.0.0/0**
 - Access protocols = SMB/CIFS
 - Access details = NTFS Read-Only
3. Configure DNS for host-name resolution:
 - a. Click **Storage** > **Storage VMs**, select the storage VM, click **Settings**, and then click  under **DNS**.
 - b. Switch to the DNS server and map the SMB server.
 - Create forward (A - Address record) and reverse (PTR - Pointer record) lookup entries to map the SMB server name to the IP address of the data network interface.
 - If you use NetBIOS aliases, create an alias canonical name (CNAME resource record) lookup entry to map each alias to the IP address of the SMB server's data network interface.
4. Configure name services as required
 - a. Click **Storage** > **Storage VMs**, select the storage VM, click **Settings**, and then click  under **LDAP** or **NIS**.
 - b. Include any changes in the name services switch file: click  under **Name Services Switch**.
5. Configure Kerberos if required:
 - a. Click **Storage** > **Storage VMs**, select the storage VM, and then click **Settings**.

b. Click  under **Kerberos** and then click **Add**.

Copyright Information

Copyright © 2020 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.