



vserver check commands

ONTAP 9.6 commands

NetApp
February 11, 2024

Table of Contents

- vserver check commands 1
 - vserver check lif-multitenancy run 1
 - vserver check lif-multitenancy show-results 4
 - vserver check lif-multitenancy show 6

vserver check commands

vserver check lif-multitenancy run

Run check for LIF multitenancy

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

The run command checks the specified Vserver to verify that it has connectivity to the configured external servers providing services such as Active Directory, NIS, and DNS. The output can consist of three types of messages. Failure messages indicate that a Vserver does not have the connectivity required to a server exporting a service. Warning messages indicate configuration or operational issues that are possible causes of the failures. A success message is displayed if the Vserver has network connectivity to each of the configured servers for each service.

You can use this command to verify configuration changes such as creating a Vserver or changing the configured servers for one or more services. It is also useful for diagnosing operational problems that result from failures that could be caused by the inability to make network connections to configured servers.

The services that are checked are DNS, NIS, CIFS preferred domain controllers, CIFS discovered domain controllers, KDC, Active Directory, Admin, Password, LDAP, and LDAP preferred Active Directory.

Only a single run for a Vserver is allowed to run in a cluster. If multiple runs are attempted for a Vserver, a message will be displayed indicating that a run is already in progress.

For each service, this command will ping each configured server until a successful ping is completed. In certain circumstances where a subnet is offline or LIFs are operationally down, this command may take a long time to run. In order to show that forward progress is being made, an activity indicator of a '.' is displayed for each ping sent.

The following fields are reported in table format. Some fields may not be relevant to a type of message and will consist of the text "-".

- Vserver name
- Service external server is exporting
- Address of external server
- Connectivity to that external server
- More information describing the problem
- Suggestions to remediate the problems
- Success when there are no problems

Parameters

-vserver <vserver> - Vserver

Use this parameter to specify the Vserver to check.

[`-verbose {true|false}`] - Show Positive and Negative Result (privilege: advanced)

When this parameter is specified the results of all connectivity tests will be displayed in the success and failure cases.

Examples

This is an example of a successful run:

```
cluster1::> vserver check lif-multitenancy run -vserver vs0
..
SUCCESS: All external servers are reachable.
```

This is an example of a run with warnings and failures that need to be corrected:

```

cluster1::> vserver check lif-multitenancy run -vserver vs0
      Vserver      Severity Service      Address      LIF
Connected Details
-----
vs0      warning  -      -      vs0_lif1
-      operationally down
vs0      warning  -      -      vs0_lif2
-      operationally down
...
vs0      failure  DNS      10.98.200.20  -
no      cache
...
vs0      failure  NIS domain  10.98.13.53  -
no      cache
Error : command failed:  FAILURES FOUND.
      You must correct these failures to avoid service disruptions
      in DOT 8.3 and above.
      Corrective actions may include:
      - removing decommissioned external servers from the vserver
configuration
      - restoring network interfaces that are down
      - adding network interfaces or routes
      - modifying the locations where network interfaces may
reside
      (through
      adjusting failover groups/policies or changing the home-
node or
      auto-revert settings).
      For assistance, please consult the 8.3 Upgrade Document,
      or contact support personnel.

```

At advanced privilege, additional information for messages at all severities is displayed.

```

cluster1::*> vserver check lif-multitenancy run -vserver vs0 -verbose true
.....
Vserver      Severity Service      Address      LIF
Connected  Details
-----
vs0          info    DNS          10.98.200.20  vs0_lif1
yes          ping
.....
vs0          info    NIS domain   10.98.13.53  vs0_lif1
yes          ping
SUCCESS: All external servers are reachable.

```

vserver check lif-multitenancy show-results

Show the results of the latest multitenancy network run

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

You can view detailed information about the latest completed run, or the run for a Vserver.

- Vserver - name of vserver run was for
- Severity - severity of the message which is failure, warning, or info.
*
Failures are problems that need fixed. Warnings are potential problems that may need to be fixed. Values are "failure", "warning" or "info".
- Service - name of service that is being checked for connectivity
- Address - address of server configured for the above service that is being
*
checked for connectivity.
- LIF - the LIF a successful connectivity check to the above server was made from
- Connected - true if there is connectivity, false if there is not
- Status - additional information useful for resolving issues

Parameters

{ [-fields <fieldname>,...]

If you specify the -fields <fieldname>, ... parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

| [-instance] }

If you specify the -instance parameter, the command displays detailed information about all fields.

[-vserver <vserver>] - Vserver

Selects the messages matching the specified Vserver

[-severity <text>] - Severity

Selects the messages matching the specified severity of failure, warning, and info.

[-service <text>] - Service Name

Selects the messages matching the specified service.

[-address <text>] - Address of Server

Selects the messages matching the specified address.

[-lif <lif-name>] - Logical Interface

Selects the messages matching the specified LIF.

[-connected {yes|no}] - Vserver Connectivity

Selects the messages matching the specified connectivity.

[-status <text>] - Additional Information

Selects the messages matching the specified search criteria.

Examples

Runs that are successful will not have any content.

```
cluster1::> vserver check lif-multitenancy show-results -vserver vs0
This table is currently empty.
```

Successful runs made with -verbose true will show the LIF used to Ping the network address from.

```
cluster1::> vserver check lif-multitenancy show-results -vserver vs0
```

Vserver	Severity	Service	Network Address	Logical Interface	Connected
Status					
-----	-----	-----	-----	-----	-----
vs0					
	info	DNS	10.98.200.20	vs0_lif1	yes
ping					
	info	NIS domain	10.98.13.53	vs0_lif1	yes
ping					

2 entries were displayed.

Runs that fail display each failure that needs to be fixed.

```
cluster1::> vserver check lif-multitenancy show-results -vserver vs0
```

Vserver Status	Severity	Service	Network Address	Logical Interface	Connected
vs0	warning	-	-	vs0_lif1	-
operationally down	warning	-	-	vs0_lif2	-
operationally down	failure	DNS	10.98.200.20	-	no
cache	failure	NIS domain	10.98.13.53	-	no
cache					

4 entries were displayed.

vserver check lif-multitenancy show

Show the summary of the latest multitenancy network run

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

You can view summary information about the latest completed run, or the run in progress for a Vserver. It will show the following fields:

- Vserver - Name of Vserver that was checked for LIF connectivity
- Start Time - Date And Time the run was started
- Status - Not Started, In Progress, Complete, or Aborted
- Success - Yes if the run has a Status of Complete with no failures. No if the run has a status of Complete with one or more failures.
- Updated - The date and time the scan was last updated.

Parameters

{ [-fields <fieldname>,...]

If you specify the -fields <fieldname>, ... parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

| [-instance] }

If you specify the -instance parameter, the command displays detailed information about all fields.

[-vserver <vserver>] - Vserver

Selects the summary information matching the specified Vserver.

[-start-time <MM/DD/YYYY HH:MM:SS>] - Start Time

Selects the summary information matching the specified date and time the run was started

[-status {not started|in progress|complete|aborted}] - Run Status

Selects the summary information matching the specified status of the run.

[-success {yes|no}] - Successful Run

Selects the summary information matching the specified success or failure of the run.

[-updated <MM/DD/YYYY HH:MM:SS>] - Run Updated

Selects the summary information matching the last time the run was still in progress.

Examples

This is what a successful run looks like:

```
cluster1::> vsriver check lif-multitenancy show
Vserver          Start Time          Status          Success
-----
vs0
                7/16/2014 14:28:35    complete        yes
```

This is what a failed run looks like:

```
cluster1::> vsriver check lif-multitenancy show
Vserver          Start Time          Status          Success
-----
vs0
                7/16/2014 14:40:55    complete        no
```

This is what specifying the Vserver looks like:

```
cluster1::> vsriver check lif-multitenancy show -vserver vs0
Vserver: vs0
  Start Time: 7/16/2014 14:40:55
  Run Status: complete
  Successful Run: no
```

Advanced privilege adds in the Updated field.

```
cluster1::*> vserver check lif-multitenancy show
```

Vserver	Start Time	Status	Success	Updated
-----	-----	-----	-----	-----
vs0	7/16/2014 14:40:55	complete	no	7/16/2014

```
14:40:56
```

Copyright information

Copyright © 2024 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.