vserver check commands

ONTAP 9.6 commands

NetApp
June 10, 2024

Table of Contents

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 of 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 nework address from.

```
cluster1::> vserver check lif-multitenancy show-results -vserver vs0
                                        Network      Logical
     Vserver     Severity  Service      Address      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
                                        Network      Logical
     Vserver     Severity  Service      Address      Interface  Connected
Status
     ----------  --------  -----------  -----------  ---------  ----------
-------
     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::> vserver 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::> vserver 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::> vserver 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

Trademark information