

Configure on-demand scanning

ONTAP 9

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Configure on-demand scanning

Configure on-demand scanning overview

You can use on-demand scanning to check files for viruses immediately or on a schedule. You might want to run scans only in off-peak hours, for example, or you might want to scan very large files that were excluded from an on-access scan.

You can use a cron schedule to specify when the task runs:

- You can assign a schedule when you create a task.
- You can create a task without assigning a schedule, and use the vserver vscan on-demand-task schedule command to assign a schedule.
- You can use the vserver vscan on-demand-task run command to run a task immediately, whether or not you have assigned a schedule.

Only one task can be scheduled at a time on an SVM.



On-demand scanning does not support scanning of symbolic links or stream files.

Create an on-demand task

An on-demand task defines the scope of an on-demand scan. You can specify the maximum size of the files to be scanned, the extensions and paths of the files to be included in the scan, and the extensions and paths of the files to be excluded from the scan. Files in subdirectories are scanned by default.

Steps

1. Create an on-demand task:

```
vserver vscan on-demand-task create -vserver data_SVM -task-name task_name -scan-paths paths_of_files_to_scan -report-directory report_directory_path -report-expiry-time expiration_time_for_report -schedule cron_schedule -max -file-size max_size_of_files_to_scan -paths-to-exclude paths_of_files_to_exclude -file-ext-to-exclude extensions_of_files_to_exclude -file-ext-to-include extensions_of_files_to_include -scan-files-with-no-ext true|false -directory-recursion true|false
```

- ° The -file-ext-to-exclude setting overrides the -file-ext-to-include setting.
- Set -scan-files-with-no-ext to true to scan files without extensions. For a complete list of options, see the man page for the command.

The following command creates an on-access task named Task1 on the vs1SVM:

```
cluster1::> vserver vscan on-demand-task create -vserver vs1 -task-name Task1 -scan-paths "/vol1/","/vol2/cifs/" -report-directory "/report" -schedule daily -max-file-size 5GB -paths-to-exclude "/vol1/cold-files/" -file-ext-to-include "vmdk?","mp*" -file-ext-to-exclude "mp3","mp4" -scan-files-with-no-ext false [Job 126]: Vscan On-Demand job is queued. Use the "job show -id 126" command to view the status.
```



You can use the job show command to view the status of the job. You can use the job pause and job resume commands to pause and restart the job, or the job stop command to end the job.

2. Verify that the on-demand task has been created: vserver vscan on-demand-task show -instance data_SVM -task-name task_name

For a complete list of options, see the man page for the command.

The following command displays the details for the Task1 task:

```
cluster1::> vserver vscan on-demand-task show -instance vs1 -task-name
Task1
                           Vserver: vs1
                         Task Name: Task1
                List of Scan Paths: /vol1/, /vol2/cifs/
             Report Directory Path: /report
                      Job Schedule: daily
Max File Size Allowed for Scanning: 5GB
            File Paths Not to Scan: /vol1/cold-files/
       File Extensions Not to Scan: mp3, mp4
           File Extensions to Scan: vmdk?, mp*
      Scan Files with No Extension: false
           Request Service Timeout: 5m
                    Cross Junction: true
               Directory Recursion: true
                     Scan Priority: low
                  Report Log Level: info
        Expiration Time for Report: -
```

After you finish

You must enable scanning on the SVM before the task is scheduled to run.

Schedule an on-demand task

If you have created an on-demand task without assigning a schedule, or if you want to assign a different schedule to a task, you can use the vserver vscan on-demand-task schedule command to assign a schedule to the task.

About this task

The schedule assigned with the vserver vscan on-demand-task schedule command overrides a schedule already assigned with the vserver vscan on-demand-task create command.

Steps

1. Schedule an on-demand task:

```
\label{lem:condition} vserver \ vscan \ on-demand-task \ schedule \ -vserver \ data\_SVM \ -task-name \ task\_name \ -schedule \ cron\_schedule
```

The following command schedules an on-access task named Task2 on the vs2SVM:

```
cluster1::> vserver vscan on-demand-task schedule -vserver vs2 -task
-name Task2 -schedule daily
[Job 142]: Vscan On-Demand job is queued. Use the "job show -id 142"
command to view the status.
```



You can use the job show command to view the status of the job. You can use the job pause and job resume commands to pause and restart the job, or the job stop command to end the job.

2. Verify that the on-demand task has been scheduled: vserver vscan on-demand-task show -instance data_SVM -task-name task_name

For a complete list of options, see the man page for the command.

The following command displays the details for the Task 2 task:

```
cluster1::> vserver vscan on-demand-task show -instance vs2 -task-name
Task2
                           Vserver: vs2
                         Task Name: Task2
                List of Scan Paths: /vol1/, /vol2/cifs/
             Report Directory Path: /report
                      Job Schedule: daily
Max File Size Allowed for Scanning: 5GB
            File Paths Not to Scan: /vol1/cold-files/
       File Extensions Not to Scan: mp3, mp4
           File Extensions to Scan: vmdk, mp*
      Scan Files with No Extension: false
           Request Service Timeout: 5m
                    Cross Junction: true
               Directory Recursion: true
                     Scan Priority: low
                  Report Log Level: info
```

After you finish

You must enable scanning on the SVM before the task is scheduled to run.

Run an on-demand task immediately

You can run an on-demand task immediately, whether or not you have assigned a schedule.

What you'll need

You must have enabled scanning on the SVM.

Step

1. Run an on-demand task immediately:

```
vserver vscan on-demand-task run -vserver data_SVM -task-name task_name
```

The following command runs an on-access task named Task1 on the vs1SVM:

```
cluster1::> vserver vscan on-demand-task run -vserver vs1 -task-name
Task1
[Job 161]: Vscan On-Demand job is queued. Use the "job show -id 161"
command to view the status.
```



You can use the job show command to view the status of the job. You can use the job pause and job resume commands to pause and restart the job, or the job stop command to end the job.

Commands for managing on-demand tasks

You can modify, delete, or unschedule an on-demand task. You can view a summary and details for the task, and manage reports for the task.

If you want to	Enter the following command
Modify an on-demand task	vserver vscan on-demand-task modify
Delete an on-demand task	vserver vscan on-demand-task delete
Unschedule an on-demand task	vserver vscan on-demand-task unschedule
View summary and details for an on-demand task	vserver vscan on-demand-task show
View on-demand reports	vserver vscan on-demand-task report show
Delete on-demand reports	vserver vscan on-demand-task report delete

For more information about these commands, see the man pages.

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