Configure on-demand scanning

ONTAP 9

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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 `vs1`SVM:

```
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:

   ```
   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 `vs2`SVM:

   ```
   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 `vs1`SVM:

   ```
   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.