



# Configure on-demand scanning

## ONTAP 9

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# Configure on-demand scanning

## Learn about configuring ONTAP Vscan on-demand scanning

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.



To create an on-demand task, there must be at least one on-access policy enabled. It can be the default policy or a user created on-access policy.

### About this topic

- You can assign a schedule when you create a task.
- 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.



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To create an on-demand task, there must be at least one on-access policy enabled. It can be the default policy or a user created on-access policy.

## Create on-demand tasks with ONTAP Vscan

An on-demand task defines the scope of the on-demand virus 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.

### About this task

- A maximum of ten (10) on-demand tasks can exist for each SVM, but only one can be active.
- An on-demand task creates a report, which has information regarding the statistics related to the scans. This report is accessible with a command or by downloading the report file created by the task at the location defined.
- Beginning with ONTAP 9.14.1, you can use wildcards to specify on-demand paths to exclude.

### Before you begin

- You must have [created an on-access policy](#). The policy can be a default or user-created one. Without the on-access policy, you cannot enable the scan.

### 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 -file-ext-to
-exclude file_extensions -file-ext-to-include file_extensions -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.

Learn more about **vserver vscan on-demand-task create** in the [ONTAP command reference](#).

The following command creates an on-demand 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. Learn more about **job** in the [ONTAP command reference](#).

2. Verify that the on-demand task has been created:

```
vserver vscan on-demand-task show -instance data_SVM -task-name task_name
```

Learn more about **vserver vscan on-demand-task show** in the [ONTAP command reference](#).

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 on-demand tasks with ONTAP Vscan

You can create a task without assigning a schedule and use the `vserver vscan on-demand-task schedule` command to assign a schedule; or add a schedule while creating 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.
```

Learn more about `vserver vscan on-demand-task schedule` in the [ONTAP command reference](#).



To view the status of the job, use the `job show` command. The `job pause` and `job resume` commands, respectively pause and restart the job; the `job stop` command terminates the job. Learn more about `job` in the [ONTAP command reference](#).

## 2. Verify that the on-demand task has been scheduled:

```
vserver vscan on-demand-task show -instance data_SVM -task-name task_name
```

Learn more about `vserver vscan on-demand-task show` in the [ONTAP command reference](#).

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 ONTAP Vscan on-demand tasks immediately

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

schedule.

### Before you begin

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.
```

Learn more about `vserver vscan on-demand-task run` in the [ONTAP command reference](#).



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. Learn more about `job` in the [ONTAP command reference](#).

## ONTAP Vscan 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...
Create an on-demand task	<code>vserver vscan on-demand-task create</code>
Modify an on-demand task	<code>vserver vscan on-demand-task modify</code>
Delete an on-demand task	<code>vserver vscan on-demand-task delete</code>
Run an on-demand task	<code>vserver vscan on-demand-task run</code>
Schedule an on-demand task	<code>vserver vscan on-demand-task schedule</code>
Unschedule an on-demand task	<code>vserver vscan on-demand-task unschedule</code>
View summary and details for an on-demand task	<code>vserver vscan on-demand-task show</code>

View on-demand reports	<code>vserver vscan on-demand-task report show</code>
Delete on-demand reports	<code>vserver vscan on-demand-task report delete</code>

Learn more about the commands described in this procedure in the [ONTAP command reference](#).

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