



Configure on-access scanning

ONTAP 9

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Configure on-access scanning

Create an on-access policy

An on-access policy defines the scope of an on-access scan. You can specify the maximum size of the files to be scanned, the extensions of the files to be included in the scan, and the extensions and paths of the files to be excluded from the scan. You can create an on-access policy for an individual SVM or for all the SVMs in a cluster.

About this task

By default, ONTAP creates an on-access policy named “default_CIFS” and enables it for all the SVMs in a cluster.

You can set the `scan-mandatory` option to `off` to specify that file access is allowed when no Vscan servers are available for virus scanning. Keep in mind that any file that qualifies for scan exclusion based on the `paths-to-exclude`, `file-ext-to-exclude`, or `max-file-size` parameters is not considered for scanning even if the `scan-mandatory` option is set to `on`.



For potential issues related to the `scan-mandatory` option, see [Potential connectivity issues involving the scan-mandatory option](#).

By default, only read-write volumes are scanned. You can specify filters that enable scanning of read-only volumes or that restrict scanning to files opened with execute access.

Steps

1. Create an on-access policy:

```
vserver vscan on-access-policy create -vserver data_SVM|cluster_admin_SVM
-policy-name policy_name -protocol CIFS -max-file-size
max_size_of_files_to_scan -filters [scan-ro-volume,][scan-execute-access]
-file-ext-to-include extensions_of_files_to_include -file-ext-to-exclude
extensions_of_files_to_exclude -scan-files-with-no-ext true|false -paths-to
-exclude paths_of_files_to_exclude -scan-mandatory on|off
```

- Specify a data SVM for a policy defined for an individual SVM, a cluster admin SVM for a policy defined for all the SVMs in a cluster.
- 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. The following command creates an on-access policy named `Policy1` on the `vs1` SVM:

```
cluster1::> vserver vscan on-access-policy create -vserver vs1 -policy
-name Policy1 -protocol CIFS -filters scan-ro-volume -max-file-size 3GB
-file-ext-to-include "mp*", "tx*" -file-ext-to-exclude "mp3", "txt" -scan
-files-with-no-ext false -paths-to-exclude "\vol\ a b\"," \vol\ a, b\"
```

2. Verify that the on-access policy has been created: `vserver vscan on-access-policy show -instance data_SVM|cluster_admin_SVM -policy-name policy_name`

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

The following command displays the details for the `Policy1` policy:

```
cluster1::> vserver vscan on-access-policy show -instance vs1 -policy
-name Policy1
```

```

                Vserver: vs1
                Policy: Policy1
        Policy Status: off
        Policy Config Owner: vserver
        File-Access Protocol: CIFS
                Filters: scan-ro-volume
        Mandatory Scan: on
Max File Size Allowed for Scanning: 3GB
        File Paths Not to Scan: \vol\ a b\, \vol\ a,b\
        File Extensions Not to Scan: mp3, txt
        File Extensions to Scan: mp*, tx*
        Scan Files with No Extension: false
```

Enable an on-access policy

You must enable an on-access policy on an SVM before its files can be scanned. If you created an on-access policy for all the SVMs in a cluster, you must enable the policy on each SVM individually. You can enable only one on-access policy on an SVM at a time.

Steps

1. Enable an on-access policy:

```
vserver vscan on-access-policy enable -vserver data_SVM -policy-name
policy_name
```

The following command enables an on-access policy named `Policy1` on the `vs1` SVM:

```
cluster1::> vserver vscan on-access-policy enable -vserver vs1 -policy
-name Policy1
```

2. Verify that the on-access policy is enabled: `vserver vscan on-access-policy show -instance data_SVM -policy-name policy_name`

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

The following command displays the details for the `Policy1` on-access policy:

```
cluster1::> vserver vscan on-access-policy show -instance vs1 -policy
-name Policy1
```

```
                Vserver: vs1
                Policy: Policy1
                Policy Status: on
                Policy Config Owner: vserver
                File-Access Protocol: CIFS
                Filters: scan-ro-volume
                Mandatory Scan: on
Max File Size Allowed for Scanning: 3GB
                File Paths Not to Scan: \vol\ a b\, \vol\ a,b\
                File Extensions Not to Scan: mp3, txt
                File Extensions to Scan: mp*, tx*
                Scan Files with No Extension: false
```

Modify the Vscan file-operations profile for an SMB share

The Vscan file-operations profile for an SMB share defines which operations on the share can trigger scanning. By default, the parameter is set to `standard`. You can adjust the parameter as necessary when you create or modify an SMB share.

About this task

For more information on the available values for a Vscan file-operations profile, see “Vscan file-operations profile.”

Vscan file-operations profile (on-access scanning only)



Virus scanning is not performed on a SMB share for which the `continuously-available` parameter is set to `Yes`.

Step

1. Modify the value of the Vscan file-operations profile for a SMB share: `vserver cifs share modify -vserver data_SVM -share-name share -path share_path -vscan-fileop-profile no-scan|standard|strict|writes-only`

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

The following command changes the Vscan file operations profile for a SMB share to `strict`:

```
cluster1::> vserver cifs share modify -vserver vs1 -share-name
SALES_SHARE -path /sales -vscan-fileop-profile strict
```

Commands for managing on-access policies

You can modify, disable, or delete an on-access policy. You can view a summary and details for the policy.

If you want to...	Enter the following command...
Modify an on-access policy	<code>vserver vscan on-access-policy modify</code>
Disable an on-access policy	<code>vserver vscan on-access-policy disable</code>
Delete an on-access policy	<code>vserver vscan on-access-policy delete</code>
View summary and details for an on-access policy	<code>vserver vscan on-access-policy show</code>
Add to the list of paths to exclude	<code>vscan on-access-policy paths-to-exclude add</code>
Delete from the list of paths to exclude	<code>vscan on-access-policy paths-to-exclude remove</code>
View the list of paths to exclude	<code>vscan on-access-policy paths-to-exclude show</code>
Add to the list of file extensions to exclude	<code>vscan on-access-policy file-ext-to-exclude add</code>
Delete from the list of file extensions to exclude	<code>vscan on-access-policy file-ext-to-exclude remove</code>
View the list of file extensions to exclude	<code>vscan on-access-policy file-ext-to-exclude show</code>
Add to the list of file extensions to include	<code>vscan on-access-policy file-ext-to-include add</code>
Delete from the list of file extensions to include	<code>vscan on-access-policy file-ext-to-include remove</code>
View the list of file extensions to include	<code>vscan on-access-policy file-ext-to-include show</code>

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

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