

# Client Configuration Overview

Version 19.72

Client Configuration tab is used to establish, add, remove or disable client(s) to a client group to be referenced by a job policy during the migration process. Client groups can contain one or more client names with the only restriction in terms of quantity being the resulting group's aggregate data size which needs to be kept to a manageable size ultimately governed by the size of its defined staging disk size. A client name **MUST** not be repeated within the same client group. There are no hard limits to the number of client groups allowed.

**A Client entry is comprised of the following key fields as shown below:**

- Fld-1 client group name the entry belongs to
- Fld-4 & 5 Avamar domain and client name as it's currently known to Avamar
- Fld-10 a top-level staging path definition where this groups backup data will be staged to
- Fld-12,13,14 the name of a predefined export or tape policy definition to be called within the export application involved
- Fld-15 Basic OS type this group is to be staged to, Windows or Unix
- Fld-6,7 embedded backup selection filters to be applied against an individual client, not intended for all clients in the group
- Fld-8,17 embedded migration filters to be applied against an individual client to include or exclude specific folders from a selected backup.

Job policies are used to act on a given client group name therefore all clients defined to a group will have their selected backups migrated. Client groups may be accessed by any number of job policies but normally will be assigned to a single job policy.

**A Client group's content defines the following key parameters:**

- the export tape policy name to be called if applicable
- the staging path to direct the recovery to
- the required staging server OS type
- the client names to be acted on

**A Client group does not reference nor have influence over the following:**

- the staging server name to use
- the Avamar Plug-in type the group will act on
- the export or tape application to be used

## Client Group Naming Convention

A meaningful naming convention for client groups is important for organizing an ADMe configuration. It is strongly suggested to use the generic descriptive names shown below as it scales to support multiple groups or buckets of a given plugin type while maintaining a meaningful common base name. It also facilitates clients being added or removed from a group over time without compromising the relevance of the groups name. This generic approach makes ADMe administration easier. Always ensure the two-character numeric suffix is present as it facilitates multiple groups of a given plugin and maintains the groups sorting order.

Client groups containing Windows file system backups.

- **winfs01, winfs02, winfs03**

Client groups containing Linux or Unix file system backups.

- **lnxfs01, lnxfs02, lnxfs03**

Client groups containing Microsoft Exchange backups.

- **exch01, exch02, exch03**

Client groups containing Microsoft SQL backups.

- **sql01, sql02, sql03**

Client groups containing Oracle backups.

- **ora01, ora02, ora03**

Client groups containing VMware image backups.

- **vmimg01, vmimg02, vmimg03**

## Establishing a New Client Group

Click on the Add Groups tool icon + in upper **left** to establish a new group. A dialog requesting the following input will open some of which is mandatory and some where default values are typically used. Embedded filter fields are normally defaulted unless a filter is required for specific client(s) within a group. Equivalent filters are available at the job policy level and if defined there, will pertain to all clients in the group. From the domain/client tree displayed use the check box to select each client you would want to add to the group.

Client Entry Field Name	Description
Group Name	Enter a client group name limited to 8 characters, stay clear of special characters such as \ \$ & # * ( ) { }   % < >
Label Name Filter	An embedded filter useful when multiple backups of the same type completed on a given day and you need to differentiate which one to choose. Refer to <b>-gname</b> filter under Job Policy tab help for more detail.

Retention Tag Value	An embedded filter used to limit backup selection based on a retention tag value of daily weekly monthly yearly only. Leaving this field as n/a results in any tag values being considered for selection.
Exclude Files	An embedded filter used to exclude top level folders contained within a selected backup. Leaving this field as n/a results in all folders within the backup being acted upon. Refer to <b>-xdata</b> filter under Job Policy tab help for more detail.
Include Files	An embedded filter used to include top level folders contained within a selected backup. Leaving this field as n/a results in all folders within the backup being acted on. Refer to <b>-data</b> filter under Job Policy tab help for more detail.
Staging Path	Defines the staging path to where the backup data will be recovered to. A basic default value is initially displayed taken from a variable defined within environment File-1 and your entered group name will be appended to this path value by default. This can be modified as required including the basic default portion. Example F:/ADME/winfs01
Staging Server OS	Choose from the dropdown list the appropriate staging OS type which will be based on your staging path value above. A colon: in Col-2 implies a Windows OS while / in Col-1 implies a Unix/Linux OS
Destination Path Suffix	Provides a means to append an optional staging path folder name inserted between the final defined staging path and the actual recovered data files being staged for the given client entry.
Monthly Tape Policy	<p>Enter the export (tape) policy name to be called on a month to month basis when using a <b>client-initiated</b> approach.</p> <p>For Networker, this value can represent either a Networker <b>group name</b> or a Networker <b>pool name</b> depending on the Networker CLI call to use <b>savefs</b> or <b>save</b> command which will be called from the staging server involved. To inform ADMe which one to use, include <b>-nwksave</b> in the job policy migration criteria field and define a Networker <b>pool</b> name here.</p> <p>When neither <b>-nwksave</b> nor <b>-server</b> parameter is present within a Job policy migration criteria field, the use of <b>savefs</b> will be assumed which requires a Networker <b>group</b> name be defined here. The Networker group name of <b>ADME_Full</b> is typically used and this name will be inserted automatically to this field when a group is established.</p> <p><b>IMPORTANT:</b> The preferred approach for initiating tape exports with Networker is to leverage <b>server-initiated</b> which relies on a standard Networker Workflow being defined. Refer to the next two parameters below on how this is accomplished</p>

Yearly Tape Policy	<p>Enter the export (tape) policy name to be called automatically on a yearly basis or more frequently as determined by the <b>ENDOFYEAR</b> variable value defined in the environment file number being used. An <b>ENDOFYEAR</b> value of <b>01,07</b> for example, would result in this policy field being used to initiate the export in the months of January and July only.</p> <p>This field does support both <b>client</b> and <b>server-initiated</b> syntax, refer to the <b>Monthly Tape Policy</b> field above or <b>Server Tape Policy</b> field below for appropriate content which will be based on whether you are using <b>client</b> or <b>server</b> initiated tape backups.</p> <p>If no user defined value is entered here, it will default to use the server-initiated approach and its content automatically set to <b>-p ADME -w Yclient-group-name</b> conforming to the requirements for a Networker server-initiated export. The upper-case <b>Y</b> is a naming convention to indicate it is a yearly called workflow name.</p>
Server Tape Policy	<p>Enter the server-initiated export (tape) policy name to be called on a month to month basis. If no user defined value is entered here, it will default to use the server-initiated approach and its content automatically set to <b>-p ADME -w client-group-name</b> conforming to the requirements for a Networker server-initiated export.</p> <p>Content must conform to the above example and will be called on the export application master server. With Networker, this represents a call to <b>nsrworkflow</b> command using the following syntax  <b>-p &lt;policy-name&gt; -w &lt;workflow-name&gt;</b></p> <p>Server-initiated export backups are performed when <b>-server</b> is present within the job policy as a migration criteria field option. A unique MCS thread name defined to the Networker master server must exist and its thread name must be defined within the jobs assigned Environment file variable name TAVADOMAINNAME. When the staging MCS thread name is to the Networker master server, the same thread name should also be defined in TAVADOMAINNAME. However, when staging to a server other than the Networker master you must define an additional MCS thread to the Networker master server which will be dedicated to this use case and defined in TAVADOMAINNAME of the appropriate environment file.</p> <p>When no user defined value is entered here, it will default to <b>-p ADME -w client-group-name</b> conforming to Networker requirements and naming convention for a server-initiated export. It is strongly advised to adhere to the suggested naming convention.</p>

**Note:** All Windows staging or binary path definitions specified within ADMe must use a forward slash /, DO NOT use backslashes \. These will be converted to correct value when needed by ADMe.

## Adding Clients

Adding clients to an existing group is done by highlighting the group name involved then using the **Add Client** tool icon + in upper right to open a Domain/Client tree where you must click on the check box of each client you wish to add. Always be sure to verify the aggregate size of the group when adding/removing clients to ensure it will fit the planned staging disk. This can be done using the Check-Size tool in upper right.

## Enabling/Disabling Clients

Adding a client to a group will by default put it in an enabled state as seen in the status column. There are situations where it may be desirable to temporarily disable a client from the migration process but not remove it from the client group. To disable a client, highlight the appropriate client row in right hand panel, right-click and choose to disable from the context menu. The client's status column will change from enabled to disabled state and be displayed in red. To enable the client, reverse the procedure and choose enable.

## Removing Clients

Clients can be removed from a group individually by highlighting the appropriate row then click on the **Remove Client** tool icon in upper right. Multiple clients can be removed at a time by holding the Ctrl-Key while highlighting the desired client row entries you want to remove.

## Calculate a Client Groups Aggregate Data Size

The aggregate size of a given client group can be calculated using the **Check Group Size** tool icon which will prompt you to choose the desired Plug-In type involved then perform a backup selection using the **last\_F** filter to reduce backup count to one per client selecting from the most recent backups available.

A more versatile size check can be accomplished using the interactive CLI menu UI which supports complex date ranges, relative date ranges and other reduction filters etc.

From the interactive CLI menu UI:

**S=Interactive Selection-> Env-#=20 -> Selection History=N -> #=Your Group Name -> follow the prompts**

## Updating Existing Client(s) Entry

Updates to an existing client entry are accomplished through the context menu displayed using a Right-Click after highlighting a client given row entry. The menu currently contains the entries shown below to act on a given client group field. The propagate checkbox can be used to optionally propagate a changed value to all clients within the group. Export policy related values must be identical across all clients within a group therefore the propagate checkbox is automatically checked and grayed out.

Context Menu Options	Option Description
Update Staging Path	Modify the staging path field and ensure the change is automatically propagated to all clients within the group

Update Monthly Tape Policy	Modify contents of the client-initiated monthly tape policy field and have the change automatically propagated to all clients within the group
Update Yearly Tape Policy	Modify the <b>yearly tape policy</b> field and ensure the change automatically propagated to all clients within the group
Update Server Tape Policy	Modify the <b>server-initiated tape policy</b> field and ensure the change automatically propagated to all clients within the group
Update Label/Name Filter	Modify this filter with a case sensitive string value to limit backup selection based on comparing the string value against that viewed from the Avamar Recovery UI <b>name</b> column field. It is not normally required to propagate this filter value to the rest of the clients in the same group as it typically pertains to a specific client only. But when it does, this is better handled from a job policy using <b>-gname</b> selection option.
Update Retention Tag Filter	Modify this filter entering a valid retention tag value of <b>weekly monthly yearly none</b> string to limit the backup selection to one with an appropriate Retention Tag It is not usually required to propagate this filter to the rest of the clients in the same group as it typically pertains to a specific client only. But if it does, this is better handled from a job policy using <b>-rtype</b> in the selection criteria field.
Update File Include Filter	<p>This is referred to as an embedded filter and is intended to be used when specific clients only within a group require a filter or when different clients in a group require unique filters. The corresponding job policy option is <b>-data</b>.</p> <p>Modify this filter value with a valid case sensitive Full path name only to be included from the staging process. Wild cards * are not supported on includes. Multiple path names can be entered by ensuring each is separated by a pipe   character. Each path must also be encapsulated in + signs as shown in examples below.</p> <p>+C:/Program Files/avs/var/clientlogs+  +/etc/bluetooth+ /etc/X11+  + C:/Program Files/avs/var/clientlogs+ +C:/Program Files/avs/var/update+</p>
Update File Exclude Filter	<p>This is referred to as an embedded filter and is intended to be used when only specific clients only within a group require a filter or when different clients in a group require unique filters. The corresponding job policy option is <b>-xdata</b>.</p> <p>Modify this filter value with a valid case sensitive Full or Partial path name to be excluded from the staging process. Wild cards * can be leveraged. Multiple path names can be entered by ensuring each is separated by a pipe   character. Each path must also be encapsulated in + signs as shown in examples below.</p> <p>+C:/Program Files/avs/*/clientlogs+  +var/clientlogs+</p>

	+var/update+ var/update+ +/etc/Bluetooth+ /etc/X11+
Update Destination Path Suffix	Modify this field to include a user defined folder to be inserted immediately prior to the actual backup data being staged. A leading forward slash / must be specified. It is not usually required to propagate this filter to the rest of the clients in the same group as it typically pertains to a specific client only. But if it does, this is better handled from a job policy using <b>-path</b> migration option.

## Show Status of All Available Clients

To view the client state either **enabled** or **disabled** for each Avamar client name relative to whether it is defined or not to ADMe, click on the **Wrench** tool, **Client Status** tab, and click on its Refresh tool to ensure its discovery is up to date. All available clients will be shown along with its status relative to ADMe either **NOT DEFINED** shown in red or **DEFINED** shown in green. A client shown as DEFINED is defined within the ADMe client configuration file. Clients displayed as NOT-DEFINED represent clients available within Avamar but have not been defined within the ADMe client configuration file. You can filter the Status column on the client status value as required.

From within this dialogue, you can add a highlighted or a series of highlighted clients into an existing ADMe client group by clicking on the + tool then choosing the group name from the dropdown list provided. Added clients will inherit the field characteristics from the last client previously added to the group name chosen.

## Client Discovery

To ensure the domain/client discovery is current, a new discovery should be initiated when a new domain/client is added to or modified within Avamar. To initiate a client discovery, click on the **Wrench** tool to open its dialogue then click on its **Refresh** tool.

From the interactive CLI menu UI: **C=Client Config Manager -> F=Refresh**  
 Directly from the Linux prompt: **adme -cfg refresh**

## Client Configuration File Parse Check

To run a parse check against the client configuration file, click on the **Wrench** tool then on **Client Parser** tab. The parse check is not a 100% guarantee the file is clean but does detect multiple types of errors or typo's which may otherwise be difficult to detect manually. Scroll to the end of the dialogue to identify any lines in question and/or peruse the parse check output. Currently there's no color coding within the parser output but if you use the CLI based UI for this function color coding is present making the review of the output easier to accomplish.

From the interactive CLI menu UI: **C=Client Config Manager->P=Cfg-Parser**

## Client Configuration File Validation Check

To run a validation process against the client configuration file, click on the Wrench tool then on Client Validation tab. This check compliments the parser check above and is useful for detecting invalid client entries which are no longer valid within Avamar. They may have been deleted from Avamar or moved to

a different domain therefore invalidating any entry for it within the ADMe client configuration file. Currently there's no color coding within the validation checker but if you use the CLI based menu for this there is color coding making the review of the output easier to review.

From the interactive CLI menu UI:      **C=Client Config Manager->C=Cfg-View-> A=All**