



ADVANCED TECHNOLOGY GROUP (ATG)



Accelerate with ATG Webinar: Redefining Resilience: IBM Copy Services Manager End of Year Review

Speakers:

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Meet the Speaker



Randy Blea has over 25 years of experience in copy services and leads the architecture for **IBM Copy Services Manager**, enabling enterprise data center management and disaster recovery on IBM storage systems.

He specializes in agile development of enterprise solutions across distributed and z/OS platforms and is recognized as an **IBM Master Inventor** for his innovation and mentorship.

Randy also drives automation initiatives using **Python** and **Red Hat Ansible** for DS8000 and Copy Services Manager customers.

What's New in IBM Copy Services Manager V6.3.14

[IDEA CSM-I-163](#) – Show a user defined name for the CSM server in the GUI

[IDEA CSM-I-189](#) – Provide Session view grouped by the User defined Group name

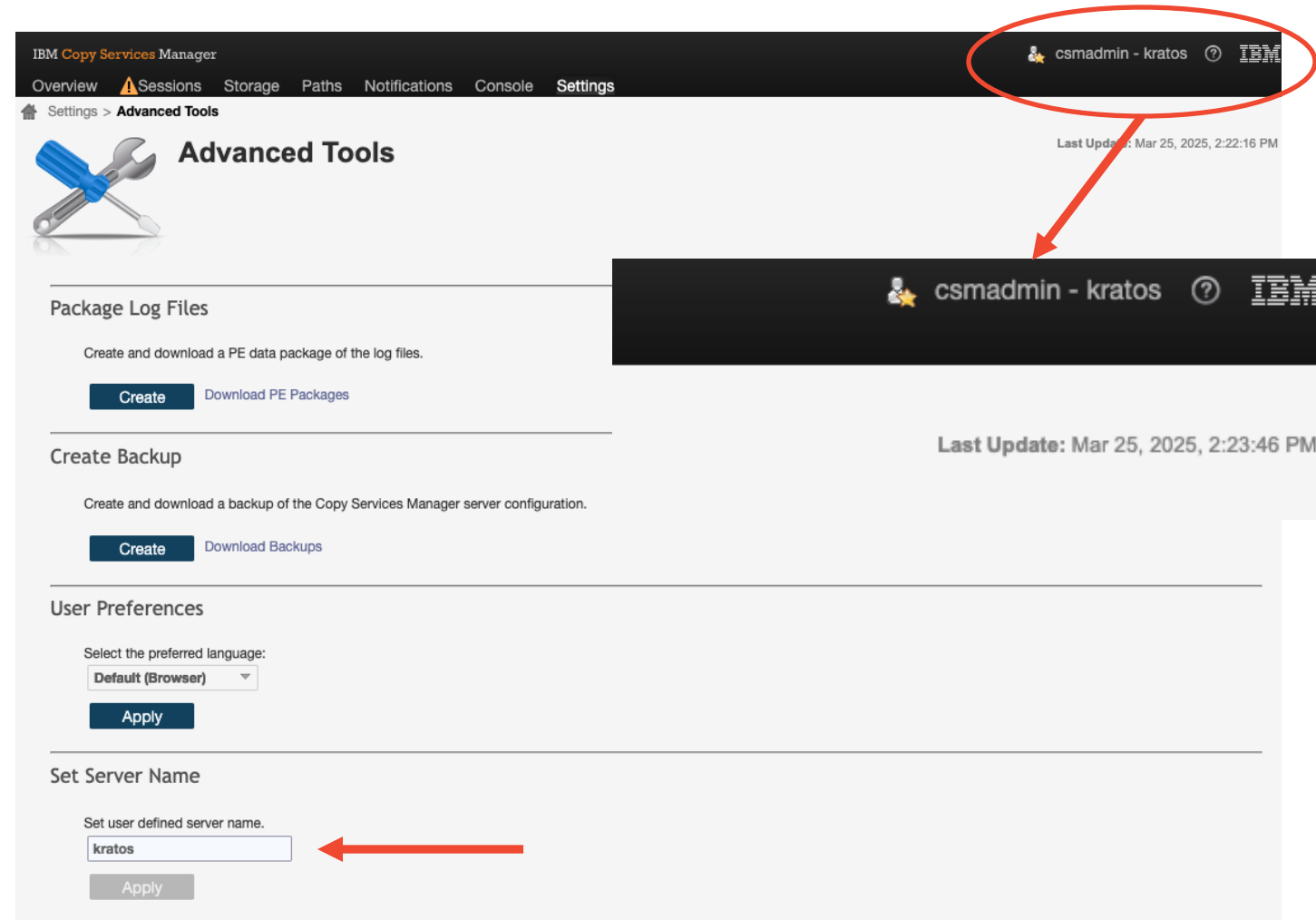
[IDEA CSM-I-181](#) – Allow Monitor user to view more details for audit purposes

Support ability to issue local and remote Snapshots against a FlashSystem Async Policy Based Replication Session

Support ability to issue and schedule Refresh thin clone both locally and remotely against a FlashSystem Async Policy Based Replication session

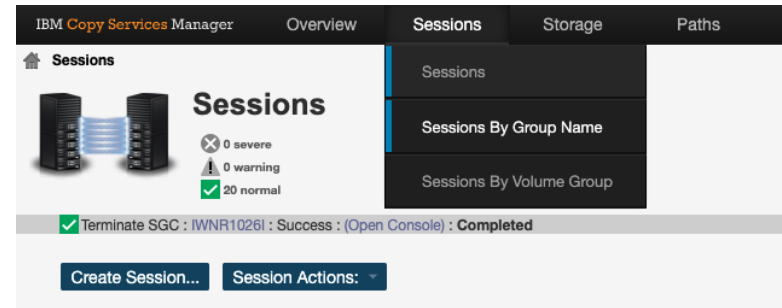
IDEA CSM-I-163 – Show a user defined name for the CSM server in the GUI

- CSM is licensed by source TiB replicated and not by server.
- This allows customers to setup different CSM servers for different environments being replicated.
- The issue with setting up multiple CSM server environments is that when you log into the CSM GUI it could be difficult to tell which of the environments you're logged in on
- Starting with 6.3.14, CSM has implemented the customer request to add a user defined name for the server
- On the Advanced Tools panel, you can set a Server Name and once set you'll see the server name next to the user in the top right corner of the GUI
- If a server name is not set, the hostname of the server will display



IDEA CSM-I-189 – Provide Session view grouped by the User defined Group name

- CSM already allows customers to set a User Defined Group name on each of the sessions.
- This allows customers to filter or sort on sessions in that Group under the main View Sessions page.
- A customer opened a request to view the session by the User Defined Group name
- In environments with a lot of sessions and groups, this improves usability, so they do not have to always filter on the group, the groups will be automatically grouped by those groups.
- In the navigator, Sessions->Session by Group Name brings up this panel to view the sessions by group



Group Name	Session Name	Status	State	Type	Volume Group
> *NO USER DEFINED GROUP					
▼ test	FC	☐ Inactive	Defined	FC	
	GMFOFB	☐ Inactive	Defined	GM	
	MGM	☐ Inactive	Defined	MGM	
	SGC	☐ Inactive	Defined	Backup	
▼ hcsc	MM	☐ Inactive	Defined	MM	
	MTMMGM	☐ Inactive	Defined	MT-MM-GM	
▼ Automatically Generated Session					
	RC_BDOAS001_VG_P_FS52002	☒ Normal	Prepared	AsyncPBR	BDOAS001_V...
	RC_CSMTTest_2SiteOld_FS52001	☒ Normal	Prepared	AsyncPBR	CSMTTest_2Sit...
	RC_Christian_FS52001	☒ Normal	Prepared	AsyncPBR	Christian
	RC_DEMO_FS_VG_FS52001	☒ Normal	Prepared	AsyncPBR	DEMO_FS_VG

IDEA CSM-I-181 – Allow Monitor user to view more details for audit purposes

- CSM already had a User role call “Monitor” that allowed login access to the CSM server without the ability to issue “actions” against sessions on the server
- An IDEA was opened by a customer because they perform audits against the CSM server by the Monitor role does not currently give the auditor access to certain panels they need to audit
- Starting with the CSM 6.3.14 release, the CSM Monitor role will now allow view only access to additional panels to provide an auditor the ability to audit features of the server
- Scheduled tasks schedules and status, Port Pairing CSV definitions and server properties are a few of the new viewable panels.

The screenshot displays the IBM Copy Services Manager interface. The top section shows the 'Add Access' dialog with the question 'What level of access should the user have?'. The 'Monitor' role is selected, which allows users to view storage system information, sessions, and session details, and high availability servers and status.

The bottom section shows the 'Scheduled Tasks' panel. It includes a table with columns: Name, ID, Affected Sessions, Status, Schedule, Next Run Time, Last Run Time, and Last M... (Last Modified). The table lists various tasks such as 'Backup SGSV...', 'Get hostname', 'IPL off of H2', 'Practice off o...', 'SP POC - exte...', 'SP POC - test ...', 'Sync Test - C...', 'Sync Test - G...', 'Sync Test - G...', 'backup sgc', and 'touch mtgmg...'. The status of these tasks varies, with some being 'Enabled' and others 'Disabled'.

Name	ID	Affected Sessions	Status	Schedule	Next Run Time	Last Run Time	Last M...
Backup SGSV...	13	SGSVCHA_SG_FS52002	Enabled	Every 7 days	3/31/25, 3:00 AM [C...	3/24/25, 3:00 AM [C...	✗ IWNR...
Backup SGSV...	15	SGSVC_IASP_FS52002	Enabled	Every 7 days	3/29/25, 2:00 AM [C...	3/22/25, 2:00 AM [C...	✗ IWNR...
Backup SGSV...	14	SGSVC_IASPB_FS52002	Enabled	Every 7 days	3/29/25, 2:00 AM [C...	3/22/25, 2:00 AM [C...	✗ IWNR...
Get hostname	9		Disabled	No schedule		12/5/24, 2:41 PM [CDT]	
IPL off of H2	5	GMFOFB	Disabled	No schedule		11/20/24, 11:11 AM ...	
Practice off o...	4	GMFOFB, FC8k	Disabled	No schedule		11/21/24, 12:00 AM ...	
SP POC - exte...	11		Disabled	No schedule		2/20/25, 9:32 AM [C...	
SP POC - test ...	12		Disabled	No schedule		2/17/25, 11:11 AM [...]	
Sync Test - C...	7	GMFOFB	Disabled	No schedule		12/2/24, 12:16 PM [C...	
Sync Test - G...	8	GMFOFB	Disabled	No schedule		12/2/24, 12:16 PM [C...	
Sync Test - G...	6	GMFOFB	Disabled	No schedule		12/2/24, 12:16 PM [C...	
backup sgc	2	SGC	Disabled	Every 2.0 hours			
touch mtgmg...	10	MTGMGM	Disabled	No schedule		2/14/25, 10:08 AM [...]	

Support ability to issue local and remote Snapshots against a FlashSystem Async Policy Based Replication Session

- Starting with the CSM 6.3.13 release, CSM will automatically detect and create a session for any volume group enabled for Async Policy Based Replication on the FlashSystem
- Customers however may want to take Snapshots or Safeguarded Snapshots for this volume group at both the local and remote sites
- Starting in CSM 6.3.14, CSM will now automatically create Snapshot sessions for Async PBR sessions for all boxes in the replication (including HA boxes) and associate those sessions to the Async PBR session
- This then allows customers to issue or schedule Create Snapshot or Create Safeguarded Snapshot commands locally, or Create Recovery Site Snapshot and Create Recovery Site Safeguarded Snapshots remotely
- The Async PBR session knows when production has moved to the remote site and the new commands or schedules will work against the new production or new remote site

The screenshot displays the IBM Copy Services Manager (CSM) interface. The top navigation bar includes tabs for Overview, Sessions, Storage, Paths, Notifications, Console, and Settings. The main content area is titled 'Sessions By Volume Group' and shows a table of sessions for the volume group BDOAS001_VG_P. The table columns are Volume Group, Session Name, Storage Sys..., Status, State, Type, Active..., Active Site, Recover..., and Progress. The sessions listed are RC_BDOAS001_VG_P_FS52002, SNAP_BDOAS001_VG_P_FS52001, and SNAP_BDOAS001_VG_P_FS52002.

Below the table, the 'Session Actions' menu is expanded, showing options like Start Recovery Test, Failover, Create Snapshot, Create Safeguarded Snapshot, Create Recovery Site Snapshot, and Create Recovery Site Safeguarded Snapshot. The 'Create Safeguarded Snapshot' option is highlighted with a red box.

The bottom section of the screenshot shows the 'Create Safeguarded Snapshot RC_BDOAS001_VG_P_FS52002?' dialog box. It includes a warning icon and a message: 'IWRN1969W [Mar 25, 2025, 2:50:48 PM] This command will create a safeguarded snapshot of the volume group at the production site in session RC_BDOAS001_VG_P_FS52002. Do you want to continue?'. There is a 'Retention Days' field set to 1 and 'Yes' and 'No' buttons at the bottom.

Support ability to issue and schedule Refresh thin clone both locally and remotely against a FlashSystem Async PBR session

- Snapshot sessions allow customers to Refresh Thin clones so that customers do not have to attach their hosts to a new set of volumes when looking at Snapshot data
- With Snapshot sessions now automatically created for Async PBR sessions, we also allow customers to issue the Refresh Thin clone to both the local and the recovery site, through the Async PBR session
- This allows customers to not only schedule the creation of the snapshots, but also schedule the refresh of the last thin clone with the latest Snapshot

The screenshot displays the IBM Copy Services Manager interface. The main window shows the session details for 'RC_BDOAS001_VG_P_FS52002'. The 'Session Actions' menu is open, highlighting 'Refresh Thin Clone' and 'Refresh Recovery Site Thin Clone'. The 'Volume Group Name' is 'BDOAS001_VG_P' and the 'RPO Alert (min)' is '1'. The 'H1 System' is 'FS52002' and the 'H2 System' is 'FS52001'. The 'Participating Role Pairs' table shows 'H1' and 'H2' with an error count of '0'.

Overlaid on the bottom right is the 'Create a Scheduled Task' dialog, specifically the 'Modify Action' tab. It asks 'What action will the task perform?' with 'Type' set to 'Command'. It then asks 'Which session will the action run against?' and shows a list of sessions:

Name	Type
RC_CSMTest_2SiteOld_FS52001	AsyncPBR
RC_Christian_FS52001	AsyncPBR
RC_DEMO_FS_VG_FS52001	AsyncPBR
RC_GMV2_FS52001	AsyncPBR

Below this, it asks 'What command do you want to issue?' and shows 'Command' set to 'Refresh Recovery Site Thin Clone'. The dialog has 'OK' and 'Cancel' buttons at the bottom.

What's New in IBM Copy Services Manager V6.3.15

[IDEA CSM-I-213](#) - Rename Suspend command for Migration and MM sessions running in Global Copy mode

[IDEA CSM-I-191](#) [IDEA CSM-I-48](#) – Support TLS communication and userid/password authentication for SMTP servers (email notifications)

[IDEA CSM-I-159](#) – Improved process for applying new certificates to the CSM server

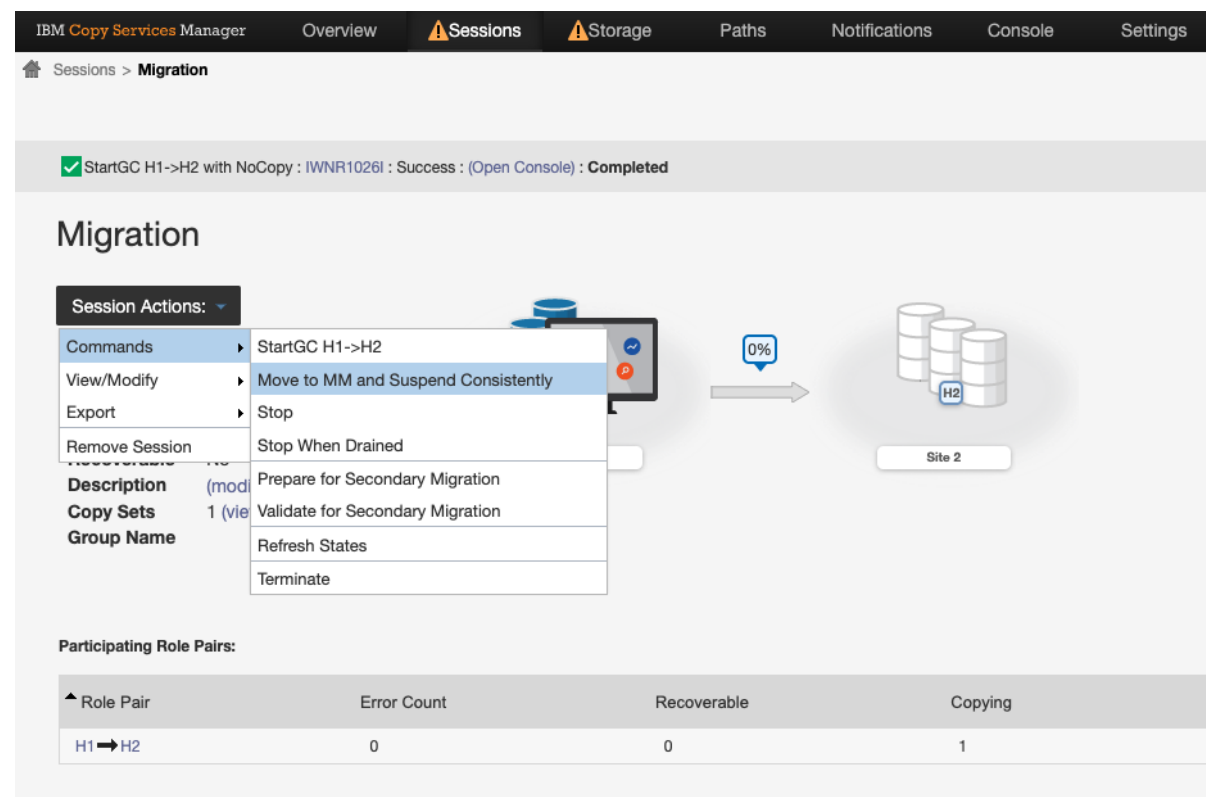
Updated GUI look at feel

Support DS8000 10.1 creation of 1024 SGC backups per volume

Support Create Checkpoint feature on FlashSystems Async PBR sessions

IDEA CSM-I-213 - Rename Suspend command for Migration and MM sessions running in GC mode

- When running the CSM Migration session or the Metro Mirror Failover/Failback session in Global Copy mode (asynchronous and inconsistent replication), the session allows for a suspend with consistency
- When issued, the command drives all pairs to Metro Mirror mode and when all are Prepared (Duplex) a freeze/thaw is issued to ensure the secondary is consistent
- This process can have impact on applications if used while i/o is still running to the source volume
- Starting with the 6.3.15 release, the 'Suspend' command in this mode has been renamed to "Move to MM and Suspend Consistently"
- The name change is designed to make it clearer what the command will do to prevent accidental impact
- The command will STILL be called Suspend while running in Metro Mirror mode
- All scripts will continue to work using the Suspend command name, but the GUI/CLI will not show that name as an option



IBM Copy Services Manager Overview **Sessions** Storage Paths Notifications Console Settings

Sessions > Migration

StartGC H1->H2 with NoCopy : IWNR10261 : Success : (Open Console) : Completed

Migration

Session Actions:

- Commands
 - StartGC H1->H2
 - Move to MM and Suspend Consistently**
 - Stop
 - Stop When Drained
 - Prepare for Secondary Migration
 - Validate for Secondary Migration
 - Refresh States
 - Terminate
- View/Modify
- Export
- Remove Session

Description (mod)
Copy Sets 1 (vie)
Group Name

Participating Role Pairs:

Role Pair	Error Count	Recoverable	Copying
H1 → H2	0	0	1

IDEA CSM-I-191 IDEA CSM-I-48 – Support TLS and user authentication for SMTP servers

- CSM has supported the ability to send email notifications to users for a long time
- When setting up email notifications, a connection to a valid email server is required
- Starting with 6.3.15, CSM now supports a more secure connection to the email server that is configured
 - The SMTP server connection can now be setup to a port on the email server defined for **TLS secured** communication (ex. port 587)
 - A userID/password can now be used for **authenticate to the email server** prior to connecting to the server to send the alert

IBM Copy Services Manager Overview Sessions **Storage** Paths Notifications Console Settings

Settings > Alert Notifications

Alert Notification

Email Notifications Enabled (Disable)

Email server for sending alert notifications

Email server live.smtp.mailtrap.io

Port 587

Reply-to address --

UserID api

Password --

Edit Remove Test

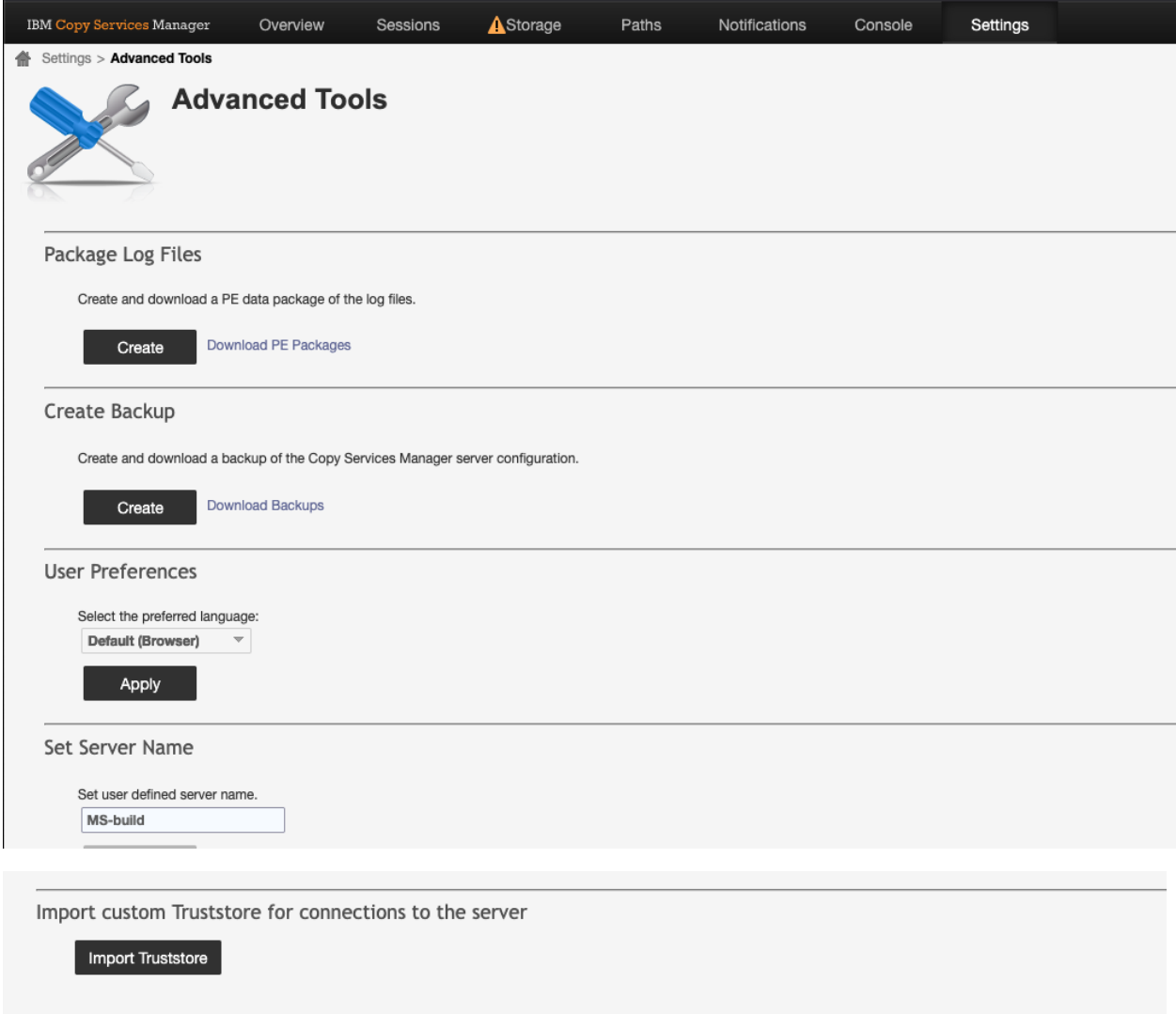
Email alert recipients

Add by Email Add by User Remove Filter...

Email alert recipients	Type	Sessions
csmop1	Session State Change	All sessions

IDEA CSM-I-159 – Improved process for applying new certificates to the CSM server

- When CSM is initially installed, a set of self-signed certificates are created for each of the communication ports supported by the server: GUI/CLI and Active/Standby
- Prior to 6.3.15, the Settings->Advanced tools panel allowed customers to upload a jks/p12 file to replace the GUI (browser) certificate with a third party signed certificate
- This upload however ONLY updated the GUI port. To update the CLI and Active/Standby ports, a manual process was provided in documentation
- Starting with CSM 6.3.15, the button on the Settings->Advanced Tools panel will still import a p12 file, but this file will now apply to ALL communication with the server. There will no longer be a need to manage each of the ports separately



The screenshot displays the 'Advanced Tools' section of the IBM Copy Services Manager interface. The top navigation bar includes 'Overview', 'Sessions', 'Storage' (with a warning icon), 'Paths', 'Notifications', 'Console', and 'Settings'. The 'Settings' tab is active, showing a breadcrumb 'Settings > Advanced Tools'. The 'Advanced Tools' section features a wrench and screwdriver icon. It contains four main panels: 'Package Log Files' with a 'Create' button and a 'Download PE Packages' link; 'Create Backup' with a 'Create' button and a 'Download Backups' link; 'User Preferences' with a language dropdown set to 'Default (Browser)' and an 'Apply' button; and 'Set Server Name' with a text input field containing 'MS-build'. At the bottom, there is an 'Import custom Truststore for connections to the server' section with an 'Import Truststore' button.

Updated GUI look at feel

- The CSM GUI in 6.3.15 has been modernized and modified slightly to match closer to other storage Uis
 - Wider table headers for clarity
 - Black/gray theme for buttons and tables
 - Clearer popups
 - ...and more

IBM Copy Services Manager

OverviewSessionsStoragePathsNotificationsConsole

Sessions

0 severe

0 warning

1 normal

Start H1->H2 H1->H3 : IWNR1026I : Success : (Open Console) : Completed

Create Session...Session Actions:

Name	Group Name	Status	Progress	State
4SiteEnhanced	demo_4site	Normal	H1 → H2 H1 → J3 100% 00:00:00.00	Prepared
SGC_site1	demo_4site	Inactive	N/A	Defined
SGC_site2	demo_4site	Inactive		
SGC_site3	demo_4site	Inactive		
SGC_site4	demo_4site	Inactive		

Console

Aug 25, 2025, 12:59:46 PM : Server : IWNR1905I : Session 4SiteEnhanced changed from the Protected state to the Inactive state.

Aug 25, 2025, 12:59:46 PM : Server : IWNH1787I : Easy Tier heat map transfer service has been updated with 1 new heat map.

3 children messages

Aug 25, 2025, 12:59:47 PM : Server : IWNR3120I : Topology was retrieved successfully.

Aug 25, 2025, 12:59:47 PM : Server : IWNR1905I : Backup of internal data store completed successfully. The backup is located in the workspace/Dev-Runtime/runtime/csm/liberty/wlp/usr/servers/csmServer/database/autobackup/csmAutoBackup_10.25.2025_12.59.47 directory.

Aug 25, 2025, 1:12:47 PM : Server : IWNR3120I : Topology was retrieved successfully.

Aug 25, 2025, 1:37:13 PM : csmadmin : IWNR1028I : The Start H1->H2 H1->H3 command in the 4SiteEnhanced session is being processed.

Aug 25, 2025, 1:37:13 PM : csmadmin : IWNR6003I : Terminating all pairs in role pair H1-J1 ...

Aug 25, 2025, 1:37:14 PM : csmadmin : IWNR6016I : Configuring paths for role pair H2-H3...

Aug 25, 2025, 1:37:14 PM : csmadmin : IWNR6016I : Configuring paths for role pair H2-H3...

Aug 25, 2025, 1:37:15 PM : csmadmin : IWNR6004I : Recovering all pairs in role pair H2-H3 ...

Aug 25, 2025, 1:37:15 PM : csmadmin : IWNR6004I : Recovering all pairs in role pair H2-J3 ...

Aug 25, 2025, 1:37:15 PM : csmadmin : IWNR6000I : Starting all pairs in role pair H1-H2 ...

Aug 25, 2025, 1:37:17 PM : csmadmin : IWNR6006I : Waiting for all pairs in role pair H1-H2 to reach a state of Ready.

Aug 25, 2025, 1:37:17 PM : csmadmin : IWNR6000I : Starting all pairs in role pair H1-H3 ...

Aug 25, 2025, 1:37:17 PM : Server : IWNR3120I : Topology was retrieved successfully.

Aug 25, 2025, 1:37:19 PM : csmadmin : IWNR6016I : Configuring paths for role pair H1-H3...

Aug 25, 2025, 1:37:20 PM : csmadmin : IWNR6016I : Configuring paths for role pair H2-H3...

Aug 25, 2025, 1:37:21 PM : csmadmin : IWNR6003I : Terminating all pairs in role pair H2-H4 ...

Aug 25, 2025, 1:37:22 PM : Server : IWNR1950I : Session 4SiteEnhanced changed from the Defined state to the Inactive state.

Status	Progress	Role Pair H1-H2
Normal	H1 → H2 H1 → J3 100% 00:00:00.00	IWNR6013I [Aug 25, 2025, 1:37:52 PM] 100% of the data on H1 has been copied to H2. Total: 2.0 GiB (32,768 tracks) Remaining: 0 (0 tracks)
Inactive	N/A	Defined Backup
Inactive	N/A	Defined Backup
Inactive	N/A	Defined Backup
Inactive	N/A	Defined Backup

Support DS8000 10.1 creation of 1024 SGC backups per volume

- Starting with CSM 6.3.15, the default maximum number of DS8000 Safeguarded Copy backups allowed per volume in CSM has been increased to 1024 from 500.
- This increase is to accommodate the upcoming increase in DS8000 microcode level 10.1.
- The CSM server will set this maximum even if the microcode is not at the 10.1 level. This is to avoid issues that could during restarts or upgrades in validating the storage system maximum.
- If running older microcode and the retention on your session is set so that the server might create a 501st backup, before expiring the oldest, then you may see the backup creation fail after upgrading to 6.3.15. The following can be done to mitigate the issue:
 - Adjust retention so that backups are expired preventing the creation of a 501st backup
 - Set the server property to set the server maximum backups per volume back down to 500

```
com.server.max_sgc_backups_8k=500
```

View / Modify Properties for session SGC_site4

Session Options Backup Options H1-R1 Options

☐ Expire Backup On Auto Roll

☒ Allow Backups to be Manually Expired

Minimum Time Frame per Backup (mins): 0

Retention Period Since Last Recoverable Backup:

Days: 0 Hours: 1

Minimum Number of Backups Retention Should Always Maintain 0

OK Cancel

Support Create Checkpoint feature on FlashSystems Async PBR sessions

- The CSM 6.3.15 release now supports the FlashSystem Async Policy Based replication Create Checkpoint feature
- Create Checkpoint can be issued on an Async PBR session to mark a point in time so that the Volume Group indicates when all data written to the sources at that point in time, has been written at the secondary site.
- This solution allows for all kinds of capabilities including the ability to automate the creation of Snapshots at both the local and remote sites that are ensured to have the same data
- CSM supports the new feature in a Scheduled Task...for example the task could....
 - Quiesce an application
 - Create a local Safeguarded Snapshot
 - Create a checkpoint
 - Wait for the checkpoint to complete
 - Create a Safeguarded Snapshot at the remote site
 - Resume the application

The screenshot displays the IBM Copy Services Manager (CSM) interface. At the top, there are tabs for Overview, Sessions (active), and Storage. Below the tabs, the breadcrumb path is Sessions > RC_T3_Volumegroup1_FS52002. The main content area is divided into two panels. The left panel, titled RC_T3_Volumegroup1_FS52002, shows a 'Session Actions' dropdown menu with options: Create Checkpoint, Start Recovery Test, and Failover. The right panel, also titled RC_T3_Volumegroup1_FS52002, displays session details: Status (Normal), State (Waiting For Checkpoint), Session Type (Async Policy Based Replication), Active Host (H1), Recoverable (Yes), and Description (Automatically created AsyncPBR session(modify)). Below these details, it shows Copy Sets (2) and Group Name (Automatically Generated Session). At the bottom of the interface, there is a 'Modify a Scheduled Task' section with a question 'What action would you like to perform?' and buttons for Add Action, Modify Action, Remove Action, Up, and Down. Below these buttons is a table with 6 rows showing a sequence of actions for a scheduled task.

Step #	Action type	Session	Action
1	Run External S...		Run an external command on server amador1.storage.tucson.ibm...
2	Command	RC_T3_Volum...	Issue 'Create Safeguarded Snapshot' to 'RC_T3_Volumegroup1_F...
3	Command	RC_T3_Volum...	Issue 'Create Checkpoint' to 'RC_T3_Volumegroup1_FS52002' se...
4	Wait For State	RC_T3_Volum...	Wait for 'Prepared' state on 'RC_T3_Volumegroup1_FS52002' se...
5	Command	RC_T3_Volum...	Issue 'Create Recovery Site Safeguarded Snapshot' to 'RC_T3_Vol...
6	Run External S...		Run an external command on server csmwin2k12r2.tuc.stglabs.ib...

What's New in IBM Copy Services Manager V6.3.16

Allow new update certificate feature from 6.3.15 through CSM CLI and REST

[IDEA CSM-I-210](#) – New option to view a scheduled task without having to open the modify wizard

[IDEA CSM-I-211](#) – Ability to manually start a scheduled task from any step

New ability to cancel a currently running task

[IDEA CSM-I-212](#)– View running status and last run status of actions within a scheduled task

[IDEA CSM-I-221](#) – Provide more details in subject of email notifications, to allow for easier filtering

New DS8000 support for enabling Time-locked Expirations on SGC backups

More enhancements for FlashSystems Snapshot and PBR support

New FlashSystems support for Restore from a thin clone's snapshot

New support for handling FlashCore Module Threat Detection events for FlashSystems directly from CSM and **automatically invoking automation!!!!**

Allow new update certificate feature from 6.3.15 through CSM CLI and REST

- CSM 6.3.15 improved how customers can manage custom certificates by merging the management of all connections in and out of CSM from the same set of certs
- This support, however, was only in the GUI and could not be automated
- Starting with CSM 6.3.16, you can now automate the management of certificates using either the CSM CLI or the CSM REST API.
- The CSM CLI *importcerts* command takes in a file name and uploads the certificate to the server
- The CSM REST API allows customers to upload the cert through REST or python

Import custom Truststore for connections to the server

Import Truststore

```
>>-importcerts--+-+-----+-+ -file--file_name----->
                    +-+help-+
                    +-+h-----+
                    '+--?-----'

>+-+-----+-+----->
    '- -password--password-'
```

POST /system/certificates

addCert

This method will update the security truststores for the server

Example curl

```
curl -X POST -k -H 'Accept-Language: en-US' -H 'Content-Type: multipart/form-data' -H 'Authorization: Basic Y3NtYWRtaW46Y3Nt' -i https://localhost:9559/CSM/web/system/certificates --form 'file=@"ziJziJeMk/csm.cert234 --form 'password="passw0rd"'
```

IDEA CSM-I-210 – New option to view a scheduled task without having to open the modify wizard

- Scheduled Tasks in CSM are designed to allow customers to create their own workflows and build solutions based off of their personal requirements
- Sometimes though you just want to double check that you configured that workflow correctly
- In the past, to check the actions in a scheduled task you had to click on the view/modify and then cancel or save the task.
- This process can be time consuming as you have to go through a lot of other screens to get to the list of actions
- Starting with CSM 6.3.16, we now provide two ways to view task without having to go into the modify wizard
 - Hover over – provides a quick popup of JUST the actions for a “quick peak”
 - Click on Task – provides a popup that lists all the actions, the schedule and a full summary of the task

The screenshot displays the IBM Copy Services Manager (CSM) interface. At the top, there's a navigation bar with 'Overview', 'Sessions', and 'Storage'. Below this, the 'Settings > Scheduled Tasks' section is visible. A 'Scheduled Tasks' popup is shown, listing various tasks with columns for Name, ID, and Affected Sessions. A 'List of Actions' popup is also visible, showing a sequence of steps for a specific task.

Scheduled Task Summary

Backup from GM

List of Actions:

- Step 1: Validate data exposure time is less than '30' seconds for 'H1-J2' role pair on 'GM' session
- Step 2: Issue 'Suspend' to 'GM' session
- Step 3: Wait for 'Suspended' state on 'GM' session
- Step 4: Issue 'Backup' to 'SGC_site3' session
- Step 5: Issue 'ResumeGM' to 'GM' session
- Step 6: Wait for 'Prepared' state on 'GM' session
- Step 7: Run an external command on server amador1.storage.tucson.ibm.com

Run the following task if successful: Do not run a Task

Run the following task on failure: Do not run a Task

Scheduled: No schedule

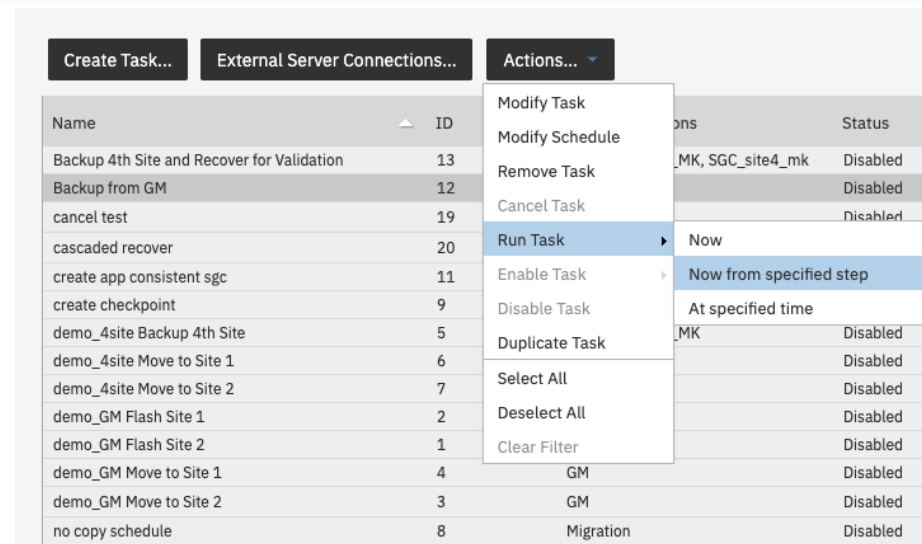
Run Task on a Threat Detection Event: No

Collect PE package if error occurs running the task: No

OK

IDEA CSM-I-211 – Ability to manually start a scheduled task from any step

- Sometimes tasks with multiple do not run according to plan
- An action might have been configured wrong and lead to the task failing before all actions have completed
- In the past, you would have to remedy the issue but then run each of the actions manually, directly on the session
- Starting with CSM 6.3.16 though, you can now issue the Run Task->“Now from specified step” to run the task starting at the step you choose!
- Note that this option is not available for “Run at specified time” or as part of the scheduled time...it is currently intended for a quick rerun manually from the GUI



Run Task Backup from GM?

Select the step to start this task from:

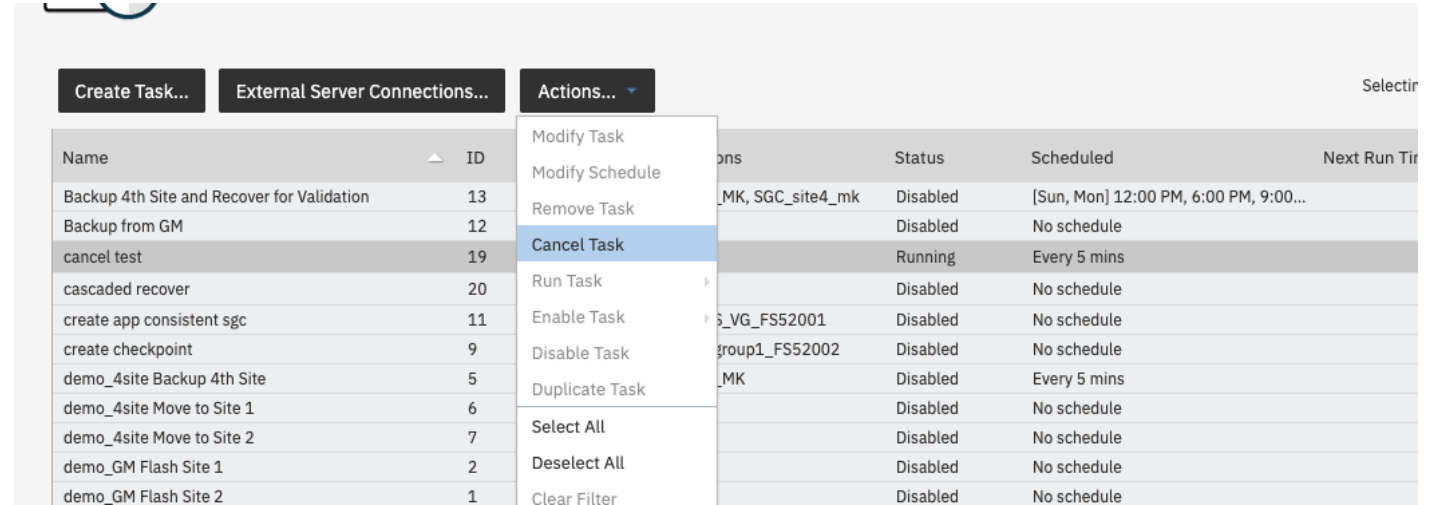
Step 1	Validate data exposure time is less than '30' seconds for 'H1-J2' role pair on 'GM' session
Step 2	Issue 'Suspend' to 'GM' session
Step 3	Wait for 'Suspended' state on 'GM' session
Step 4	Issue 'Backup' to 'SGC_site3' session
Step 5	Issue 'ResumeGM' to 'GM' session
Step 6	Wait for 'Prepared' state on 'GM' session
Step 7	Run an external command on server amador1.storage.tucson.ibm.com

OK

Cancel

New ability to cancel a currently running task

- Today once a task starts running, you cannot do anything else with that task until all actions complete successfully or an action fails
- Starting with CSM 6.3.16, the new **Cancel Task** command is available which will allow you to cancel the task if it's running
- The task will only cancel once the current action being executed completes
- After the current action completes a console message will indicate that the task was canceled and the status will show the last action run



Name	ID	Status	Scheduled	Next Run Time
Backup 4th Site and Recover for Validation	13	Disabled	[Sun, Mon] 12:00 PM, 6:00 PM, 9:00...	
Backup from GM	12	Disabled	No schedule	
cancel test	19	Running	Every 5 mins	
cascaded recover	20	Disabled	No schedule	
create app consistent sgc	11	Disabled	No schedule	
create checkpoint	9	Disabled	No schedule	
demo_4site Backup 4th Site	5	Disabled	Every 5 mins	
demo_4site Move to Site 1	6	Disabled	No schedule	
demo_4site Move to Site 2	7	Disabled	No schedule	
demo_GM Flash Site 1	2	Disabled	No schedule	
demo_GM Flash Site 2	1	Disabled	No schedule	

- ✓ Dec 1, 2025, 3:29:26 PM : csmadmin : IWNR2268I : Canceling scheduled task with id 19.
- ✓ Dec 1, 2025, 3:29:26 PM : csmadmin : IWNR2265I : The scheduled task with id 19 has been successfully canceled.

IDEA CSM-I-212– View running status and last run status of actions within a scheduled task

- In previous releases, once a task started running, the only way to track the current status was to review the console logs
- This can be difficult if a lot of other messages are occurring at the same time
- Starting in CSM 6.3.16, the popup view of the task, will display a “running”, “success”, “failed” or “not executed” icon next to the step
- This status is updated live so you can see the current step being executed
- The status of the last run will remain historically in the popup view until the server is rebooted

Scheduled Task Summary

demo_GM Move to Site 1

List of Actions:

- Step 1: Wait '100%' complete for 'H1-H2' role pair on 'GM' session
- Step 2: Issue 'Suspend' to 'GM' session
- Step 3: Wait for 'Suspended' state on 'GM' session
- Step 4: Issue 'Recover' to 'GM' session
- Step 5: Wait for 'Target Available' state on 'GM' session
- Step 6: Validate for 'H1-H2' Role Pair on 'GM' session
- Step 7: Issue 'Enable Copy to Site 2' to 'GM' session
- Step 8: Issue 'Start H1->H2' to 'GM' session

Run the following task if successful: Do not run a Task

Run the following task on failure: Do not run a Task

Scheduled: No schedule

Run Task on a Threat Detection Event: No

Collect RF packets if error occurs during the task: No

OK

Scheduled Task Summary

demo_GM Move to Site 1

List of Actions:

- ✓ Step 1: Wait '100%' complete for 'H1-H2' role pair on 'GM' session
- ✓ Step 2: Issue 'Suspend' to 'GM' session
- ✓ Step 3: Wait for 'Suspended' state on 'GM' session
- ✖ Step 4: Issue 'Recover' to 'GM' session
- Step 5: Wait for 'Target Available' state on 'GM' session
- Step 6: Validate for 'H1-H2' Role Pair on 'GM' session
- Step 7: Issue 'Enable Copy to Site 2' to 'GM' session
- Step 8: Issue 'Start H1->H2' to 'GM' session

Run the following task if successful: Do not run a Task

Scheduled Task Summary

demo_GM Move to Site 1

List of Actions:

- ✓ Step 1: Wait '100%' complete for 'H1-H2' role pair on 'GM' session
- ✓ Step 2: Issue 'Suspend' to 'GM' session
- ✓ Step 3: Wait for 'Suspended' state on 'GM' session
- ✓ Step 4: Issue 'Recover' to 'GM' session
- ✓ Step 5: Wait for 'Target Available' state on 'GM' session
- ✓ Step 6: Validate for 'H1-H2' Role Pair on 'GM' session
- ✖ Step 7: Issue 'Enable Copy to Site 2' to 'GM' session
- Step 8: Issue 'Start H1->H2' to 'GM' session

Run the following task if successful: Do not run a Task

Run the following task on failure: Do not run a Task

Scheduled: No schedule

Run Task on a Threat Detection Event: No

Collect RF packets if error occurs during the task: No

OK

IDEA CSM-I-221 – Provide more details in subject of email notifications, to allow for easier filtering

- In previous releases, when the CSM server was setup for email notifications, an email was sent where the Subject contained the IWN message ID and the Body contained the entire message
- Starting with CSM 6.3.16, additional information will now be added to the Subject of all email notifications
- This additional information will make it easier to create filter rules for email receivers
- The Subject will provide the following extra details
 - message_ID [time_stamp] [server] [alert_category] [list of message inserts]

From: csmServer <csmServer@localhost.com>
Sent: Thursday, November 20, 2025 6:23 PM
To: Randy Blea <blead@us.ibm.com>
Subject: IWNR2262W [Thu Nov 20 17:23:48 MST 2025] [csmServer@csmwin2k12r2.tuc.stglabs.ibm.com] [THREAT_DETECTION]
[SNAP_CW_VG_FS9500B13A]

IWNR2262W [Nov 20, 2025, 05:23:48 PM] A potential threat has been detected by the storage system for session SNAP_CW_VG_FS9500B13A, due to a workload anomaly.

New DS8000 support for enabling Time-locked Expirations on SGC backups

- Today SGC backups will get expired based on the retention time set on the session, and the last successful backup, however, manual expires are allowed without regard to the retention time (Dual control is highly recommended to manage this)
- Starting with CSM 6.3.16, from the Settings -> Advanced Tools panel customers can enable a new mode on the server which will make SGC backups expire based on time instead of the last successful backup
- When enabled, an SGC backup cannot be expired, even manually with Dual Control!
- Once enabled, the feature cannot be disabled and the standby server will automatically enter the mode as well
- WARNING: While this mode provides greater lock-down for SGC, because you cannot manually delete backups, if a volume's backup capacity is exceeded, you will need to wait until enough backups expire before new backups can be created

Enable Safeguarded Copy Time-Locked Expiration (DS8000 only)

Enable Time-Locked Expirations

Enable Safeguarded Copy Time-Locked Expiration (DS8000 only)



Time-locked expirations has been enabled on the server.
All manual and automatic expirations will be prevented for Safeguarded Copy backups that are not older than the retention time set on the session.

Hold and Preserve / Release and Disable Expiration / Enable Expiration commands

- New commands are now available when the server is placed in the SGC time-locked mode
- Hold And Preserve Backups
 - This mode allows you to put the SGC session into a state when NO backups will expire, and no new backups can be created.
 - When the Release Backup Expiration command is issued, the session will automatically extend the life of ALL backups based on the duration of the “hold”. This is useful for weekend or holidays so that backups are only managed during business hours
- Disable Expiration
 - This mode allows you to simply Disable the expiration process in CSM. Backups will NOT be automatically expired despite their retention time
 - When Enable Expiration is issued, all expired backups will be automatically deleted
 - Could be used in the event of an attack...to preserve the existing backups

4SiteSGC_site4

Session Actions: ▾

Commands	▶ Backup	Copy
View/Modify	▶ Disable Expiration	
Export	▶ Expire Backup	
Remove Session	Hold and Preserve Backups	
Description	Recover Backup	
Copy Sets	Refresh States	
Group Name	Terminate	
	TerminateH1R1	

Associated Session:

4SiteEnhanced

Associated Role Pair:

H3-H4

Role to Restore in Associated Session:

H3

Backup Schedule

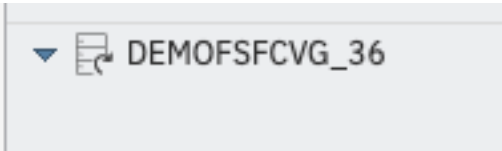
No schedule

Last Recoverable Backup

2025-12-01 16:00:03 MST

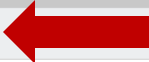
More enhancements for FlashSystems Snapshot and PBR support

- Starting with CSM 6.3.16, CSM will automatically create a Snapshot session for all Volume Groups discovered on the FlashSystem in order to make it easier to manage with CSM
- Customers will still need to manually create Scheduled Tasks to create Snapshots at a given interval and retention as the FlashSystem does not hold this policy any more for external management
- The same applies when creating a Thin Clone of an existing Snapshot. A new Snapshot session will be created allowing you to manage the creation of snapshots against the Thin Clone. In addition, thin clones will display a special icon so that you can quickly tell that the session is a thin clone
- When managing Async PBR session with CSM, CSM in a previous release started creating Snapshot session on each of the FlashSystems for the Volume Groups across sites. In this release, the Snapshot “site name” will automatically get updated to match the site name in the PBR session, to make it easier to see which Snapshot is for which site.



Volume Group Name	DEMO_FS_VG
RPO Alert (min)	10
H1 System	FS52001
H1 Partition	Not Defined
H1 HA Status	No HA
H1 Associated Sessions:	SNAP_DEMO_FS_VG_FS52001
H2 System	FS52002
H2 Partition	Not Defined
H2 Associated Session:	SNAP_DEMO_FS_VG_FS52002

▼ DEMO_FS_VG									
RC_DEMO_FS_VG_FS52001	FS52001	✓ Normal	Prepared	AsyncPBR	H1	Site 1	Yes	H1 → H2	00:00:00
SNAP_DEMO_FS_VG_FS52001	FS52001	✓ Normal	Target Available	Snap	H1	Site 1	Yes	N/A	
SNAP_DEMO_FS_VG_FS52002	FS52002	○ Inactive	Defined	Snap	H1	Site 2		N/A	



New FlashSystems support for Restore from a thin clone's snapshot

- In CSM 6.3.16, support was added for the FlashSystems new capability to restore a volume group from the snapshot of a thin clone
- After creating a thin clone, CSM will automatically create a new Snapshot session
- The icon next to the session name indicates it is a thin clone
- If Snapshots are created from this thin clone, you can now issue the “Restore from Thin Clone” command
- This new command is only available on the original Snapshot session, and will bring up a list of thin clones to choose from, followed by the lists of snapshots of that thin clone
- If the restore is done, the data from the snapshot on the thin clone will get applied to the source volumes of the original source volumes

SNAP_DEMOFSFCVG_36_FS52001 ← Thin clone

Session Actions:

Status ☒ Normal
State Protected
Session Type Snapshot
Active Host H1
Recoverable Yes
Description Automatically created SnapshotSVC session(modify)
Copy Sets 4 (view)
Group Name Automatically Generated Session

Snapshot Schedule No schedule
Last Recoverable Snapshot 2025-12-01 15:57:15 CST
Volume Group Name DEMOFSFCVG_36
Source Volume Group SNAP_DEMO_FS_VG_FS52001

Snapshot Info **Thin Clone Info**

Total Number Snapshots: 1 Total Recoverable Snapshots: 1 Total Unrecoverable Snapshots: 0

Snapshot Time	Snapshot Name
2025-12-01 15:57:15 CST	csmsnapshot_1764626235

SNAP_DEMO_FS_VG_FS52001

Session Actions:

Commands ▶ Prepare Snapshot
 View/Modify ▶ Prepare Safeguarded Snapshot
 Remove Session Create Snapshot
 Active Host Create Safeguarded Snapshot
 Recoverable Create Thin Clone
 Description Refresh Thin Clone
 Create Clone
 Restore From Snapshot
 Restore From Thin Clone
 Refresh States
 Delete Snapshot
 Delete Thin Clone

Copy Sets
Group Name

Snapshot Schedule
Last Recoverable Snapshot 2025-12-01 15:57:15 CST
Volume Group Name DEMO_FS_VG

Policy Based Replication Session RC_DEMO_FS_VG_FS52001

Snapshot Info **Thin Clone Info**

Total Number Snapshots: 1 Total Recoverable Snapshots: 1 Total Unrecoverable Snapshots: 0

Original Snapshot session →

New support for handling FlashCore Module Threat Detection events for FlashSystems directly from CSM and automatically invoking automation!!!!

- Starting with CSM 6.3.16, CSM will now monitor the FlashSystem event log for a 4300 threat detection event
- In CSM you can set up the following if CSM sees a 4300 event
 - Email alert notification through CSM
 - Setup a Scheduled task to run on a Threat Detection Event
- This solution provides quick reaction times and automation for potential threats
- In addition, CSM will show which Snapshots occurred AFTER the event, and which Snapshots had their expiration extended due to the event

Modify a Scheduled Task

When do you want the task to run?

On Event

☒ Run Task on a Threat Detection Event

Scheduled

☒ No schedule

☐ Hourly

Every (mins/hours/days):

☐ Daily / Weekly

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

Time [CST]:

Add email alert recipients

Select a recipient user for alerts

Name	Email
csadmin	blead@us.ibm.com
csadmin2	
csmap	
Dominic	dblea00@ibm.com
marisa	marisaf@us.ibm.com

Select types of alerts for recipients to receive

Type
Communication Failure
Active Standby Connected
Active Standby Disconnected
Scheduled Task Completed
Scheduled Task Failed
Session RPO Trigger
Logical Path Change
Threat Detection Alert

```
[Server] IWN2262W [2025-11-18 15:57:10.532-0700] A potential threat has been detected by the storage system for session SNAP_CW_VG_FS9500B13A, due to a workload anomaly.
[Server] IWN2264I [2025-11-18 15:57:10.532-0700] Starting Scheduled Task testing TD event task due to a THREAT_DETECTION event.
[Server] IWN2208I [2025-11-18 15:57:10.548-0700] Forcing the scheduled task testing TD event task to run now.
[Server] IWN2211I [2025-11-18 15:57:10.548-0700] The scheduled task testing TD event task has started running at step 1.
[Server] IWN2240I [2025-11-18 15:57:10.564-0700] Prior to running scheduled task testing TD event task, the connection to 2 in step demofc.rchland.ibm.com was successfully tested.
[Server] IWN1028I [2025-11-18 15:57:11.604-0700] The Create Safeguarded Snapshot command in the SNAP_CW_VG_FS9500B13A session was issued.[Server] IWN2885I [2025-11-18 15:57:11.589-0700] A safeguarded snapshot was successfully cr
[Server] IWN1047I [2025-11-18 15:57:51.746-0700] The Create Safeguarded Snapshot command in the SNAP_CW_VG_FS9500B13A session completed creating a backup at time 2025-11-18 15:57:40 MST with ID 1763506631 for all volumes in sessio
[Server] IWN2236I [2025-11-18 15:57:53.034-0700] The scheduled task testing TD event task in step 2 found the command system "call pgm(QGPL/CWALERT) PARM('CWVG FS950013B ')" ran successfully.
[Server] IWN2212I [2025-11-18 15:57:53.034-0700] The scheduled task testing TD event task has finished running.
[Server] IWN2243I [2025-11-18 15:57:51.746-0700] The command, system "call pgm(QGPL/CWALERT) PARM('CWVG FS950013B ')", completed with the following output: .
[Server] IWN2776W [2025-11-18 16:23:23.574-0700] A potential threat was detected for one or more Snapshots in session SNAP_CW_VG_FS9500B13A.
```

IBM System Storage Ideas Portal!!! -> New RFE Portal for CSM

<https://ibm-sys-storage.ideas.ibm.com/ideas?project=CSM>

- The CSM RFE process has been converted to the new IBM System Storage Ideas Portal.
- With the change, IBM is moving to a more common Aha! based process for customers to submit ideas across all IBM products.
- All existing RFEs have been converted to Ideas. When you visit an RFE for status it will direct you to the Idea for that RFE in the Idea Portal.

IBM System Storage Ideas Portal

Shape the future of IBM!

We invite you to shape the future of IBM, including product roadmaps, by submitting ideas that matter to you the most. Here's how it works:

Post your ideas

Start by posting ideas and requests to enhance a product or service. Take a look at ideas others have posted and upvote them if they matter to you,

1. Post an idea
2. Upvote ideas that matter most to you
3. Get feedback from the IBM team to refine your idea

Help IBM prioritize your ideas and requests

The IBM team may need your help to refine the ideas so they may ask for more information or feedback. The offering manager team will then decide if they can begin working on your idea. If they can start during the next development cycle, they will put the idea on the priority list. Each team at IBM works on a different schedule, where some ideas can be implemented right away, others may be placed on a different schedule.

Receive notification on the decision

Some ideas can be implemented at IBM, while others may not fit within the development plans for the product. In either case, the team will let you know as soon as possible. In some cases, we may be able to find alternatives for ideas which cannot be implemented in a reasonable time.



Accelerate with ATG Survey

Please take a moment to share your feedback with our team!

You can access this 6-question survey via [Menti.com](#) with code **5151 0447**

or

Direct link <https://www.menti.com/alhsf3bgvxu6> or QR Code



Redefining Resilience: IBM Copy Services Manager End of Year Review

Thank you!