T+ 0ts	IT	lo	F	704-4								
Test Suite	Test Case	Steps	Expected results	Status								
INSTALLATION TESTS												
		Get the latest source code of gcs cinder backup driver from private git-hub repo.										
Install and configure GCS driver	Copy driver files	Copy the source code in cinder backup drivers directory.	Successfully getting and copying the source code	pass	-							
		Edit [DEFAULT] section of cinder.conf with below options:										
		(Note: values assigned are for example purpose)										
		backup_driver = cinder.backup.drivers.google backup_gcs_credential_file = "/nome/blarcs/gcscinder- 0bea0f6844ab.json"										
		Obea0f6844ab.json" backup_gcs_bucket = "gcscinderbucket"										
		Also, some other configurable options are:										
		backup_gcs_object_size backup_gcs_block_size										
		backup_gcs_project_id backup_gcs_user_agent backup_gcs_reader_chunk_size										
		backup_gcs_reader_chunk_size backup_gcs_num_retries										
	Configure cinder.conf	backup_gcs_bucket_location backup_gcs_storage_class	Successfully editing of cinder.conf with GCS backup driver's specific options	pass								
	Update cinder			pass								
	exception file Restart cinder		Successfully updated cinder exception file	pass								
	backup service		Cinder backup service status is up	pass								
BACKUP TESTS			Check for the backup using the Cinder backup list command	_								
GCS Cinder Full Backup	Full Backup with	Create Cinder volume of 1 GB Size.	Check for the backup using the Cinder backup-list command to make sure new backup is created and status should be available	pass								
GCS Cilidei Full Backup	size 1	Create Backup using Cinder backup-create command	Check for the backup using the Cinder backup-list command	pass								
	Full Backup with size 5	Create Cinder volume of 5 GB Size.     Create Backup using Cinder backup-create command	to make sure new backup is created and status should be available	pass								
	Full Backup with	Create Cinder volume of 10 GB Size.	Check for the backup using the Cinder backup-list command to make sure new backup is created and status should be									
	size 10	Create Backup using Cinder backup-create command	available	pass								
	wrong json gcs account credential	Create Cinder volume of 1 GB Size.	Authentication and Authorization will fail so backup-creation will									
	file	Create Backup using Cinder backup-create command	end in error state	pass						_		
	Full Backup with bucket name less	Create Cinder volume of 1 GB Size.										
	than 3 characters Full Backup with	Create Backup using Cinder backup-create command	HttpError Invalid bucket name	pass								
	bucket name greater than 63	Create Cinder volume of 1 GB Size.										
	characters Full Backup with	Create Backup using Cinder backup-create command	HttpError Invalid bucket name	pass	-							
	bucket name not unique across all											
	projects in Google Cloud Storage.	Create Cinder volume of 1 GB Size.     Create Backup using Cinder backup-create command	HttpError	pass								
	Full Backup with bucket name											
	already existing in same project id											
	provided in cinder.conf	Create Cinder volume of 1 GB Size.     Create Backup using Cinder backup-create command	This case is handled in google backup driver source code. Donot create the bucket if it already exists.	pass								
			Project id is needed for creating bucket. If project id specified in cinder.conf doesnot belongs to google account credential json file									
	Full Backup with invalid project id	Create Cinder volume of 1 GB Size.     Create Backup using Cinder backup-create command	specified in cinder.conf, backup creation will end in error state HttpError	pass								
	Full Backup with backup_gcs_object											
	_size not multiple or backup_gcs_block_	Create Cinder volume of 1 GB Size.	Invalid backup: Chunk size is not multiple of block size for creating	g								
	Full Backup without	Create Backup using Cinder backup-create command	nasn.	pass								
	updating cinder exception file and											
	some exception occured and code											
	flow trying to reference undefined	Create Cinder volume of 1 GB Size.										
	exception.	Create Cinder Volume of 1 GB Size.     Create Backup using Cinder backup-create command	AttributeError: 'module' object has no attribute	pass								
		Create Cinder volume of 1 GB Size.     Create Full Backup using Cinder backup-create command.	Check for the backup using the Cinder backup-list command									
GCS Cinder Incremental Backup	Incremental Backup with size 1	<ol> <li>Create incremental Backup using Cinder backup-create command</li> </ol>	to make sure new backup is created and status should be available	pass								
		Create Cinder volume of 5 GB Size.										
	Incremental Backup	Create Full Backup using Cinder backup-create command.     Create incremental Backup using Cinder backup-create command	Check for the backup using the Cinder backup-list command to make sure new backup is created and status should be applied to the command	nor-								
	with size 5	Create Cinder volume of 10 GB Size	available	pass								
	Incremental Backur	<ol> <li>Create Full Backup using Cinder backup-create command.</li> <li>Create incremental Backup using Cinder backup-create command.</li> </ol>	Check for the backup using the Cinder backup-list command to make sure new backup is created and status should be									
	with size 10	withincremental option.	available	pass			+					
RESTORE TESTS												
	Full Backup Restore on Same	Create the backup-restore using the cinder backup-restore	Check for the status of restored volume to be available.     Attached the restored volume to a VM and check for the									
GCS Cinder Backup Restore	volume	command.	data intact from the restored volume w.r.t the time of backup.	pass								
	Full Backup	Create a new Cinder volume of same or bigger size of source volume.	Check for the status of restored volume to be available.									
	Restore on new volume	Create the backup-restore using the cinder backup-restore command.	Attached the restored volume to a VM and check for the data intact from the restored volume w.r.t the time of backup.	pass								
	Full Backup	Create a new Cinder volume of smaller size than the source volume	Ex: if new volume size is 1 GB and backup source volume size is 2GB, then FRROR: Invalid volume; volume size 1 is too small to	3								
	Restore on new volume	source volume.  2. Create the backup-restore using the cinder backup-restore command.	2GB, then ERROR: Invalid volume: volume size 1 is too small to restore backup of size 2. (HTTP 400) (Request-ID: req-5d425c65- cadd-4e37-bcbd-6b775dcd6df8)	nass								
	Backup Restore to	dominand.	Check for the status of restored volume to be available.	puoo								
	Same volume from first	Create the backup-restore using the cinder backup-restore	Attach the restored volume to a VM and check for the data intact from the restored volume w.r.t the time of first									
	incremental backup	command.	Incremental backup.	pass								
	Backup Restore to Same volume from second		Check for the status of restored volume to be available.     Attach the restored volume to a VM and check for the data intact from the restored volume w.r.t the time of second									
	incremental backup	command.	data infact from the restored volume w.r.t the time of second incremental backup.	pass								
		source volume	Check for the status of restored volume to be available.     Attach the restored volume to a VM and check for the									
	from first incremental backup	Create the backup-restore using the cinder backup-restore	data intact from the restored volume w.r.t the time of first incremental backup.	pass								
	Backup Bostoro to	1. Create a new Cinder values of same or bigger size of	Check for the status of restored volume to be available.	1								
	new volume from second	source volume.  2. Create the backup-restore using the cinder backup-restore	Attach the restored volume to a VM and check for the data intact from the restored volume w.r.t the time of second									
	incremental backup	command.	incremental backup.	pass								