

Postgres Enterprise Manager Release 7.16

PEM BART Management Guide

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This guide will acquaint you with the dialogs that are built into the Postgres Enterprise ManagerTM (PEM) web interface that make it easier for you to monitor and manage BART.

This document uses *Postgres* to mean either the PostgreSQL or EDB Postgres Advanced Server database.

CHAPTER 1

Managing a BART Server

Postgres Enterprise Manager (PEM) is designed to assist database administrators, system architects, and performance analysts when administering, monitoring, and tuning PostgreSQL and Advanced Server database servers.

The EDB Backup and Recovery Tool (BART) is an administrative utility providing simplified backup and recovery management for multiple local or remote EDB Postgres Advanced Server and PostgreSQL database servers. For more information about BART, please visit the EDB website at:

https://www.enterprisedb.com/enterprise-postgres/edb-postgres-backup-and-recovery-tool

From PEM version 7.10 onwards, you can manage a BART server through PEM console. PEM provides a user-friendly interface that allows you to manage your BART server and perform all the BART operations from PEM console.

1.1 Prerequisites

• Before adding a BART server to the PEM console, you must manually install and configure BART on the BART host. For more information about installing and configuring BART, please see the BART Installation Guide.

Note: While integrating PEM with BART, the PEM Agent creates the backup directory required for BART, and ensures that the ownership and permissions on the directory are correct.

- Before associating a database server with a BART server, you must install SSH on the database server and the BART server.
- Before restoring a BART backup, you must install BART, a PEM agent, and SSH on the target server. SSH must also be installed on the BART server that you plan to use to restore.
- To take a backup of the replica database servers, you must ensure that the latest $pg_basebackup$ utility is installed on the database server that you want to manage through BART.

1.2 Configuring a BART Server

You can use the Create-BART server dialog to register an existing BART server with the PEM server. To access the dialog, right-click on the BART Servers node and select Create-BART Server.

SCreate - BART serve	r	×
General Misc		
Agent name	Select from the list	*
Server name		
Host	Enter/Select from the list	Ŧ
	IP address of the BART host	
User		
	Username for the BART host	
Installation path	Enter/Select from the list	•
	Path to BART installation directory	
Backup path		
	Path where all the backups will be stored	
pg_basebackup path		
	Path to pg_basebackup binary, eg: /usr/edb/as11/bin/pg_basebackup	
Xlog/WAL method?	Fetch	
Retention policy	1 🚔 Backups 👻	
Log file		
	Path to the BART log file	
i ?	🗙 Cancel 🖉 Reset 🖺 Save	

Fig. 1: The Create-BART server dialog - General tab

Use the fields on the General tab to describe the general properties of the BART Server:

- Use the Agent Name field to select the agent that you want to use for the BART server. Only those PEM agents that are supported for BART are listed in the drop-down list.
- Use the Server Name field to specify a user-friendly name for the server. The name specified will identify the server in the Browser tree.
- Use the Host field to specify the IP address of the host or agent where BART is installed.
- Use the User field to specify the user name that will be used for performing all the BART operations. You can either use the enterprisedb (for Advanced Server) or postgres (for PostgreSQL) database user account or you can create a new BART user account. This user must be an operating system user who owns the BART backup catalog directory.

- Use the Installation path field to specify the directory path where BART is installed on the host or BART server.
- Use the Backup path field to specify the file system parent directory where all BART backups and archived WAL files will be stored.
- Use the pg_basebackup_path field to specify the path to the pg_basebackup utility.
- Use the Xlog/WAL method field to specify how the transaction log should be collected during the execution of pg_basebackup. The default option is fetch; it specifies that the transaction log files will be collected after the backup has completed. Set the Xlog method to stream to stream the transaction log in parallel with the full base backup creation. If streaming is used, the max_wal_senders configuration parameter in the postgresql. conf file for affected database servers must account for an additional session for the streaming of the transaction log (the setting must be a minimum of 2).

For more information about Xlog methods, see:

https://www.postgresql.org/docs/current/app-pgbasebackup.html

- Use the Retention policy field to specify the retention policy for the backup. This determines when an active backup should be marked as obsolete, and hence, be a candidate for deletion. You can specify the retention policy in terms of number of backup or in terms of duration (days, weeks, or months).
- Use the Log file field to specify the path to BART log file. This is an optional field.

😹 Create - BART server	x
General Misc	
Scanner log file	
	Path to the Xlog/WAL scanner log file
Socket dir path	
	Path to the socket directory where all BART sockets will be stored. The default directory is /tmp. This parameter is added from BART version 2.5.2 onwards.
WAL compression?	Disabled Compress the archived Xlog/WAL files in gzlp format (The gzlp must be in the BART user account's PATH)
Copy Xlog/WAL during restore?	Disabled Copy the archived Xlog/WAL files from the BART backup catalog to the restore_path/archived_wals directory prior to the database server archive recovery
Thread count	Number of threads used to copy blocks
Batch size	49142 - Number of blocks of memory used for copying the modified blocks, the default value is 49412
Scan interval	Number of seconds before forcing a scan of the Xlog/WAL files, default value 0 means no brute- force scanning will be started
MBM scan timeout	20 🛫 Number of seconds to wait for MBM file before timing out, applicable only for incremental backup
Workers	Number of parallel worker processes required to stream the modified blocks of an incremental backups to the restore host.
i ?	🗙 Cancel 🖉 Reset 🖉 Save

Fig. 2: The Create-BART server dialog - Misc tab

Use the fields on the Misc tab to describe the backup-related properties of the BART Server:

- Use the Scanner log file field to specify the path to the Xlog/WAL scanner log file. This is an optional field; BART does not create a WAL scanner log file if you do not specify the path.
- Use the Socket dir path field to specify the path to the socket directory where all BART sockets will be stored. The default directory is /tmp. This parameter is added from BART version 2.5.2 onwards.
- Use the WAL compression? switch to specify if you want to compress the archived Xlog/WAL files in Gzip format. To enable WAL compression, the gzip compression program must be present in the BART user account's PATH. The WAL compression setting must not be enabled for those database servers where you need to take incremental backups.
- Use the Copy WALs during restore? field to specify how the archived WAL files are collected when invoking the RESTORE operation. Set to enabled to copy the archived WAL files from the BART backup catalog to the restore_path/archived_wals directory prior to the database server archive recovery. Set to disabled to retrieve the archived WAL files directly from the BART backup catalog during the database server archive recovery.

Enabling this option helps you save time during the restore operation.

- Use the Thread count field to specify the number of worker threads for copying blocks or data files from the database server to the BART backup catalog. Specify a thread count of 1 if you want to take the backup using the pg_basebackup utility.
- Use the Batch size field to specify the number of blocks of memory used for copying modified blocks. This is applicable only for incremental backups.
- Use the Scan interval field to specify the number of seconds after which the WAL scanner should scan the new WAL files.
- Use the MBM scan timeout field to specify the number of seconds to wait for MBM files before timing out. This is applicable only for incremental backups.
- Use the Workers field to specify the number of parallel worker processes required to stream the modified blocks of an incremental backups to the restore host.

1.3 Associating the BART Server with a Database Server

After configuring the BART server, you must associate it with the database server whose backup you wish to manage with BART. You can do one of the following:

- Use the PEM console to modify the properties of an existing monitored database server to map it to the newly configured BART server.
- Use the PEM console to create a new monitored database server, and map it to the newly configured BART server.

To map the BART server to a new PEM database server, right-click the PEM Server Directory node and select Create > Server. Enter the details on all the generic tabs and then enter the BART-specific details on the BART tab.

Postgres Enterprise Manager Server	x
General Connection SSL SSH Tunnel Ad	vanced PEM Agent BART
General Misc	
For BART configuration, you need to install a	PEM agent on the database server if Remote Monitoring is disabled for the agent. BART supports database server version 9.5 and above.
BART server	Select from the list
Server name	
	Database server name that uniquely identifies an entry for database server in the server section of the configuration file
Backup name	
	Template for backup name (may include %year, %month, %day, %hour, %minute, and %second)
Host address	
	IP address of the database server to be configured for backup
Port	
User	
Password	
Cluster owner	
	Operating system user that owns the database cluster
Override archive command?	No
	Overrides the archive_command settings in the postgresql.conf file.
Archive command	
	Parameters for archive command (%p, %h, %a, %f). Ensure to bind a PEM agent and provide Service ID to reload or restart the database server.
Allow incremental backup?	No
Setup passwordless SSH?	No Ensure to hind a PEM anent to setup nasswordless SSH authentication between BADT host and database server
	ынин и эли ит ын эдин то экир разэттичеээ оот ашиениканин иеттеен имтт поэтани чагараас астте.
i ?	🗙 Cancel 🛛 🐼 Reset 🖉 Save

Fig. 3: The Create Server dialog (BART - General tab)

Use the fields on the General tab to describe the general properties of the BART Server that will map to the PEM server:

- Use the BART server field to select the BART server name. All the BART servers configured in the PEM console will be listed in this drop down list.
- Use the Server name field to specify a name for the database server that you want to backup using the BART server. This name gets stored in the BART configuration file.

- Use the Description field to specify the description of the database server.
- Use the Backup name field to specify a template for user-defined names to be assigned to the backups of the database server. If you do not specify a backup name template, then the backup can only be referenced in BART sub-commands by the BART assigned, integer backup identifier.
- Use the Host address field to specify the IP address of the database server that you want to configure for backup.
- Use the Port field to specify the port to be used for the database that you want to backup.
- Use the User field to specify the user of the database that you want to backup using BART through PEM console. If you want to enable incremental backups for this database server, then the user must be a superuser.
- Use the Password field to specify the password for the user of the database that you want to backup.
- Use the Cluster Owner field to specify the Linux operating system user account that owns the database cluster. This is typically enterprisedb for Advanced Server database clusters installed in the Oracle databases compatible mode, or postgres for PostgreSQL database clusters and for Advanced Server database clusters installed in the PostgreSQL databases compatible mode.
- Use the Archive command field to specify the desired format of the archive command string to be used in the bart.cfg file. Inputs provided for the Archive command will overwrite the database server's Postgresql.conf file. Once the server gets added, the database server will be restarted or database configurations will be reloaded.
- Use the Archive path field to store the archived WAL files. The default location is the BART backup catalog. This parameter is added from BART version 2.5.2 onwards.
- Use the Allow incremental backup? switch to specify if incremental backup should be enabled for this database server.
- Use the Setup passwordless SSH? switch to specify if you want to create SSH certificates to allow passwordless logins between the Database Server and the BART server. Ensure to bind a PEM agent before setting up the passwordless SSH authentication. Passwordless SSH will not work for a database server being remotely monitored by a PEM agent.

Postgres Enterprise Manager Server ×						
General Connection SSL SSH Tun	nel Advanced PEM Agent BART					
General Misc						
Override default configuration?	No Override the database server configurations with the selected BART server configurations					
Xlog method	Fetch Method of collecting the transaction logs (fetch/stream)					
Retention policy	1 Backups ▼ Retention policy for the backup					
WAL compression	Disabled Compress the archived Xlog/WAL files in gzip format (The gzip must be in the BART user account's PATH)					
Copy WALs during restore	Disabled Copy the archived Xlog/WAL files from the BART backup catalog to the restore_path/archived_wals directory prior to the database server archive recovery					
Thread count	1 A The second					
Batch size	49142					
Scan interval	Number of blocks of memory used for copying the modified blocks, the default value is 49412.					
MBM Scan timeout	20 (*) Number of seconds to wait for MBM file before timing out, applicable only for incremental backup					
i ?	🗙 Cancel 🛛 🛱 Reset 🖉 🖺 Save					

Fig. 4: The Create - Server dialog (BART - Misc tab)

Use the fields on the Misc tab to describe the miscellaneous properties of the BART Server:

- Use the Override default configuration? Switch to specify if you want to override the BART server configurations with the specific database server configurations.
- Use the Xlog method to specify how the transaction log should be collected during the execution of pg_basebackup.
- Use the Retention policy field to specify the retention policy for the backup. This determines when an active backup should be marked as obsolete, and hence, be a candidate for deletion. You can specify the retention policy in terms of number of backup or in terms of duration (days, weeks, or months).
- Use the WAL compression switch to specify if you want to compress the archived Xlog/WAL files in Gzip format. To enable WAL compression, the gzip compression program must be present in the BART user account's PATH. The wal_compression setting must not be enabled for those database servers where you need to take incremental backups.
- Use the Copy WALs during restore field to specify how the archived WAL files are collected when invoking the RESTORE operation. Set to enabled to copy the archived WAL files from the BART backup catalog to the <restore_path>/archived_wals directory prior to the database server archive recovery. Set to disabled to retrieve the archived WAL files directly from the BART backup catalog during the database server archive recovery.

- Use the Thread count field to specify the number of threads to copy the blocks. You must set thread count to 1 if you want to take a backup with the pg_basebackup utility.
- Use the Batch size field to specify the number of blocks of memory used for copying modified blocks, applicable only for incremental backups.
- Use the Scan interval field to specify the number of seconds after which the WAL scanner should scan the new WAL files.
- Use the MBM scan timeout field to specify the number of seconds to wait for MBM files before timing out, applicable only for incremental backups.
- Use the Workers field to specify the number of parallel worker processes required to stream the modified blocks of an incremental backups to the restore host.

1.4 Viewing the BART Server Details on a PEM Dashboard

After associating the BART server with a database server, you can review the backup and restore details for that server on the PEM Dashboard. You can also perform operations such as restoration or deletion of a backup that is listed on the dashboard.



Fig. 5: The BART Backup Dashboard

When you select a monitored BART server, details of all the associated database servers along with their backups and restore activities are displayed as a chart on the Dashboard in the Backup and Restore Activities panel. You can filter the list of backups on criteria specified in the filter boxes (database server, activity, or duration).

The Managed Database servers panel displays a list of all the database servers managed by that particular BART server along with their high-level details.

The Initiated Server Backups panel displayes a list of all the backups of the database servers managed by that particular BART server. You can filter the list to display the details of a particular database server. You can also filter the list on any criteria that you specify in the filter box. Typically, this filter works with any kind of string value (excluding date, time, and size) listed under the columns. For example, you can type tar to filter the list and display only those backups that are in tar format.

Backup details displayed include the Backup Name, Backup ID, Status, Server Name, Start Time, Type, Parent ID, Format, Duration, and Size. The Status column shows the status of the backups which can be one of the following: In Progress, Active, Keep, or Obsolete.

A backup is marked as Obsolete when the backup retention period has passed or if the number of retained backups (specified as the retention policy of the BART server) is met. If you want to

make an exception so that a particular backup does not get marked as Obsolete even after the expiration of the retention policy, mark that particular backup as Keep. Similarly, if you mark a particular backup as NoKeep, the backup is re-evaluated to determine if its status should be changed back to Obsolete based on the current retention policy.

A pin in the first column under *Actions* indicates that a backup can be marked as *Keep* by clicking the pin; while an inverted pin indicates that the backup can be marked as *NoKeep*. The second column under Actions displays the Restore icon; you can perform the Restore operation by clicking on the icon.

You can delete all the Obsolete backups by clicking the Delete Obsolete button. You can also refresh the list of backups by clicking the Refresh button.

1.5 Scheduling BART Backups

To create or manage a backup, select Schedule Backup from the Tools menu. The dialog header displays general execution information about the backup:

- Logs
- Last result
- Database server
- Last backup name
- Started on
- Type
- Parent
- Format
- Verify checksum?
- Use pg_basebackup?

Click the Add icon (+) to add information about a scheduled backup. Enter the backup details in the schedule definition dialog:

Schedul	e Back	ups - bart_ser	ver									+ 5
		Logs	Last result	Database server	Last backup name	Started on	Туре	Parent	Fo	ormat	Verify checksum?	Use pg_baseback
8	8	•	0				Full		· ·	Tar	No	No
Gene	ral 1	Schedule N	otifications									
D	atabas	e server		Select from the list								
B	ackup	name										
				This overrides the value	of backup_name parameter	in the server	section of BART	configuration file.				
Т	/De			Full								
				Incremental backup wil	I not work if the database se	rver is a stand	by server.					
P	arent											
				If you have selected inc Select Latest full to take incremental backup.	remental backup as Type , or e the backup on top of the la	ily plain backi st full backup	ps are listed for Select Latest to	Parent backup. take the backup on top of th	e last backi	up, regan	dless of it being a fu	II backup or
Fe	ormat			Tar								
G	zip cor	npression?		No								
C	omprei	ssion level		6 Gzip compression level	for the tar file output, applic	able only if yo	u select the outp	ut format as tar.				
U	se pg_l	basebackup?		Use pg_basebackup for	r standby database servers.							
т	nread o	count		1 Number of threads use	d to copy blocks, applicable	only if pg_bas	ebackup is not us	sed for backup.				
V	erify ch	tecksum?		No Verify the md5 checksu	m after full backup.							

Fig. 6: The Schedule Backup dialog - General options

Use the fields on the General tab to describe the general properties of the backup:

- Use the Database Server field to specify the target database server that you want to back up.
- Use the Backup name to specify a user-defined name for the backup.
- Use the Backup type switch to specify the backup type I. e. full backup or incremental backup.
- Use the Parent backup field to select the ID of the parent backup for incremental backup. This parent backup can either be a full or an incremental backup.
- Use the Format switch to specify the output format of the backup i.e plain text or tar. For incremental backup, you need to select plain text only.
- Use the Gzip compression switch to specify if gzip compression should be enabled for the backup. This option is applicable only for the tar format.
- Use the Compression level field to specify the gzip compression level on the tar file output.
- Use the Thread count field to specify the number of threads that will copy the blocks.
- Use the MBM scan timeout field to specify the number of seconds to wait for required MBM files before timing out.
- Use the Verify checksum field to specify if you want the application to verify the checksum of the backup.
- Use the pg_basebackup field to specify if the pg_basebackup utility should be used for the backup. Typically, pg_basebackup utility is used only for backing up the replica servers since it cannot be used for incremental backups.

Sched	ule Ba	ckups - b	art_server	_										+ 10	С
		Log	IS .	Last result	Database server		Last backup name	Started on	Туре	Parent	Format	Verify checksum?	Use pg_ba	seback	.p?
ß	1	3	•	Ø					Full	•	Tar	No		No	
Ge	neral	Sched	ule Notifi	cations											
	Gene	ral Re	peat												
	Enab	led?				Yes									
	Start					2020-04-27 10:52 +05:30								m	
	End					YYYY-MM-DD HH:mm Z								m	

Fig. 7: The Schedule Backup dialog - (Schedule : General)

Provide scheduling details for the Backup on the Schedule tab:

- Use the Enabled? switch to indicate if the schedule should be enabled (Yes) or disabled (No).
- Use the calendar selector in the Start field to specify the starting date and time for the schedule.
- Use the calendar selector in the End field to specify the ending date and time for the schedule.

	Logs	Last result	Database server	Last backup name	Started on	Type	Parent	Format	Verify checksum?	Use pg_basebacku
						.,,,				
	• •	0				Full	•	Tar	No	No
Inera	al Schedule Notif	fications								
Ge	aneral Reneat									
Sch For e.g Val	hedules are specified r each selected time o g. To execute at 5 min lues from more than o	using a cron-s or date elemen utes past even one field may b	tyle format. t, the schedule will execute. r hour, simply select '05' in the Minut e specified in order to further contro	tes list box. of the schedule.						
e.g	p. To execute at 12:05 r additional flexibility; Days Week days Month days Month s	and 14:05 eve the Month Day	y Monday and Thursday, you would s check list includes an extra Last D Select the week Select the mont Select the mont	cilick minute 05, hours 12 and 14, a ay option. This matches the last da idays th days	ind weekdays	Monday and Thu	rsday. sens to be the 28th, 29th, 30th or 31	st.		
e.g	 To execute at 12:05 r additional flexibility. Days Week days Month days Months 	and 14:05 eve	y Monday and Thursday, you would s check list includes an extra Last D Select the week Select the mont Select the mont	click minute 05, hours 12 and 14, a ay option. This matches the last da idays ht days	ind weekdays	Monday and Thu	rsday. pens to be the 28th, 29th, 30th or 31	st.		
For	 To execute at 12:05 additional flexibility, Days Week days Month days Months Times 	and 14:05 eve	y Monday and Thursday, you would s check list includes an extra Last D Select the week Select the mont Select the mont	click minute 05, hours 12 and 14, lay option. This matches the last da idays th days thts	ind weekdays	Monday and Thu	rsday. Jeens to be the 28th, 29th, 30th or 31	st.		
For	p. To execute at 12:05 r additional flexibility. Days Week days Month days Months Times Hours	and 14:05 eve	y Monday and Thursday, you would s check list includes an extra Last D Select the week Select the mont Select the mont Select the hour.	click minute 05, hours 12 and 14, lay option. This matches the last da idays ht days s	nd weekdays y of the mont	Monday and Thu	rsday. Jeens to be the 28th, 29th, 30th or 31	st.		
e.g For	1, To execute at 12:05 r additional flexibility. Days Week days Month days Months Times Hours Minutes	and 14:05 eve	y Monday and Thursday, you would s check list includes an extra Last D Select the week Select the mont Select the mont Select the hour Select the hour	click minute 05, hours 12 and 14, alay option. This matches the last da idays this days the days the days the second secon	nd weekdays y of the mont	Monday and Thu	rsday. Jeens to be the 28th, 29th, 30th or 31	st.		

Fig. 8: The Schedule Backup dialog - (Schedule : Repeat)

Use the fields on the Repeat tab to specify the details about the schedule in a cron-style format. The schedule will execute on each date or time element selected on the Repeat tab. Click within a field to open a list of valid values for that field; click on a specific value to add that value to the list of selected values for the field. To clear the values from a field, click the X located at the right-side of the field.

Use the fields within the Days box to specify the days on which the schedule will execute:

- Use the Week Days field to select the days on which the schedule will execute.
- Use the Month Days field to select the numeric days on which the schedule will execute. Specify the Last Day to indicate that the schedule should be performed on the last day of the month, regardless of the date.
- Use the Months field to select the months in which the schedule will execute.

Use the fields within the Times box to specify the times at which the schedule will execute:

- Use the Hours field to select the hour at which the schedule will execute.
- Use the Minutes field to select the minute at which the schedule will execute.

require	Backup	ps - bart_server											+ 10
		Logs	Last result	Database server	Last backup name	Started on	Туре	Parent		Format	Verify checksum?	Use pg_ba	sebackup
8	8	•	0				Full		*	Tar	No		No.
Gener	al Sc	hedule Notif	ications										
Se	nd the r	otifications		DEFAULT									¥
				Determines when ON FAILURE : Send a notificatio	to send a notification for the job/sc n on the failure/interruption of the jo	heduled back	up: backup.						
				ALWAYS : Send a notificatio	n on the completion of the job/sche	duled backup	regardless of th	e result.					
				NEVER : Do not send a not	tification for the job/scheduled back	up.							
				DEFAULT : Use the agent/sy	stem level job notification configurat	tion to determ	ine whether, and	when to send the notif	fication.				
En	ail grou	1p											*
				Select the email-	group to get the job/scheduled back	up notification	n on completion.						

Fig. 9: The Schedule Backup dialog - (Schedule : Notifications)

Use the fields on the Notifications tab to specify the email notification settings for a scheduled backup:

- Use the Send the notifications field to specify when you want the email notifications to be sent.
- Use the Email group field to specify the email group that should receive the email notification.

1.6 Restoring BART Backups

You can restore the backups that you have earlier created using BART server on a target remote host. When you select a particular BART server, all the associated backups are listed in the Dashboard under Initiated Server Backups.

To restore a backup, click the Restore icon next to the backup that you want to restore.

Restore Backup - pg_102020_04_	27_14_21_01 (PG_10 (pg_10))
General Advanced Notification	S
Target agent	Select agent from the list
	Agent where you want to restore the backup
Remote user	
	User account on the remote database server host where you want to restore the backup
Remote host address	Enter/Select from the list
	IP address of the remote host where you want to restore the backup
SSH port	22
	SSH port to be used for restoring the backup
Restore path	
	Path where you want to restore the backup
Number of workers	1
	Number of worker processes to run in parallel to stream the modified blocks of an incremental backup to the restore location
Setup passwordless SSH?	No
Tablespace paths	
Tablespace Name (OID)	Path
Agent name must be specifie	i ×
?	🗙 Cancel 🖺 Restore

Fig. 10: The Restore Backup dialog - General

In the Restore Backup dialog, provide information in the fields on the General tab:

- Use the Target agent field name to specify the name of the agent where you want to restore the backup.
- Use the Remote user field to specify the use account on the remote database server host where you want to restore the backup.
- Use the Remote host address field to specify the IP address of the remote host where you want to restore the backup.
- Use the SSH port field to specify the SSH port to be used for restoring the backup.

- Use the Restore path field to specify the path where you want to restore the backup.
- Use the Number of workers field to specify processes to run in parallel to stream the modified blocks of an incremental backup to the restore location.
- Use the Setup passwordless SSH? switch to specify if you want to create SSH certificates to allow passwordless logins between the BART server and the target host for restore.

Restore Backup - pg_10_2020_0	4_27_14_21_01 (PG_10 (pg_10))
General Advanced Notificat	ions
Copy WALs to restore path?	No
Point in time recovery?	No
Timeline ID	
	Integer identifier of the timeline to be used for replaying the archived WAL files for point-in-time recovery
Transaction ID (XID)	
	Integer identifier of the transaction ID that determines the transaction up to and including, which point-in-time recovery encompasses
Timestamp	
	Timestamp that determines the point in time up to and including, which point-in-time recovery encompasses
Agent name must be speci	fied ×
?	🗶 Cancel 🖺 Restore

Fig. 11: The Restore Backup dialog - Advanced

On the Advanced tab, specify your preferences for advanced options for restoring the backup:

- Use the Copy WALs to restore path? switch to specify if you want to copy WAL files to the restore path.
- Use the Point in time recovery switch to specify if you want point in time recovery.
- Use the Timeline ID field to specify the timeline ID to be used for replaying the archived WAL files for point-in-time recovery.
- Use the Transaction ID (XID) field to specify the transaction ID for point-in-time recovery.

• Use the Timestamp field to the timestamp to be used for restore.

Note: You can specify either Transaction ID or Timestamp for the point-in-time recovery.

Restore Backup - pg_10_2020_04_2	7_14_21_01 (PG_10 (pg_10))	2
General Advanced Notifications	3	
Send the notifications	DEFAULT	•
	Determines when to send a notification for the job: ON FAILURE : Send a notification on the failure/interruption of the job. AI WAYS -	
	Send a notification on the completion of the job regardless of the result.	
	NEVER : Do not send a notification for the job.	
	DEFAULT : Use the agent/system level job notification configuration to determine whether, and notification.	when to send the
Email group		×
	Select the email-group to get the job/scheduled-task notification on completion.	
Agent name must be specified		×
?		X Cancel 🖺 Restore

Fig. 12: The Restore Backup dialog - Notifications

Use the fields on the Notifications tab to specify the email notification settings for restoring the backup.

- Use the Send the notifications field to specify when you want the email notifications to be sent.
- Use the Email group field to specify the email group that should receive the email notification.

CHAPTER 2

Conclusion

EDB Postgres Enterprise Manager BART Management Features Guide

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