



Release Notes -Posgres Enterprise Manager

Release 8.2.0

EnterpriseDB

Oct 10, 2021

CONTENTS

1	Version 8.2.0	3
2	Version 8.1.1	5
3	Version 8.1.0	7
4	Version 8.0.1	11
5	Version 8.0.0	13

The Postgres Enterprise Manager (PEM) documentation describes the latest version of PEM 8 including minor releases and patches. The release notes in this section provide information on what was new in each release. For new functionality introduced after 8.0.0 in a minor or patch release, there are also indicators within the content about what release introduced the feature.

Version	Release Date	Upstream Merges	Accessibility Conformance
8.2.0	09 Sep 2021	pgAdmin 5.4 < https://www.pgadmin.org/docs/pgadmin4/5.4/release_notes_5_4.html#bug-fixes >, 5.5 < https://www.pgadmin.org/docs/pgadmin4/5.5/release_notes_5_5.html#bug-fixes >, and 5.6	NA
8.1.1	22 Jul 2021	NA	NA
8.1.0	16 Jun 2021	pgAdmin 5.0 < https://www.pgadmin.org/docs/pgadmin4/5.3/release_notes_5_0.html#bug-fixes >, 5.1 < https://www.pgadmin.org/docs/pgadmin4/5.3/release_notes_5_1.html#bug-fixes >, 5.2 < https://www.pgadmin.org/docs/pgadmin4/5.3/release_notes_5_2.html#bug-fixes >, and 5.3	Conformance Report
8.0.1	3 Mar 2021	pgAdmin 4.2.9, 4.3.0, and 5.0	NA
8.0.0	9 Dec 2020	pgAdmin 4.2.7, 4.2.8, and 4.2.9	Conformance Report

Often only select issues are included in the upstream merges. The specific issues included in the merges are listed in the release note topics.

VERSION 8.2.0

New features, enhancements, bug fixes, and other changes in PEM 8.2.0 include:

Type	Description	ID
New Feature	Two-Factor Authentication for PEM Server to decrease risk of unauthorized access. See 2FA Authentication .	PEM-3680, PEM-4090
New Feature	View, edit, and format JSON data rendered in an effective way in the Query Tool.	#51 98
Enhancement	Ability to exclude a particular database from PEM monitoring [Support Ticket #1196669]. See Exclude a database from PEM Monitoring .	PEM-3824
Enhancement	Support Export/Import Custom Probes and Custom Alert Templates using PEM GUI and RESTapi.	PEM-4160, PEM-4183
Enhancement	Highlight the long running queries on the dashboards.	#19 75
Enhancement	Do not block the query editor window while running a query.	#39 20
Enhancement	Copy SQL from main window to query tool.	#49 04
Enhancement	Set the binary path for the different database server versions.	#53 70
Enhancement	Provide maximum width of the column when 'Resize by data?' option in the preferences is set to True.	#65 59
Bug Fix	New ids are updated to probe schedule table after re-registering agent/server. [Support Ticket #1324590]	PEM-4178
Bug Fix	Query Tool can snap the Data Output panel back after it is detached.	#41 89
Bug Fix	Replace the keyboard shortcut issue in the query tool on the standard keyboard layout.	#63 88
Bug Fix	Detaching the query editor panel gives a blank white panel.	#63 98
Bug Fix	The Query Tool does not change the connection string as per the Query Tool tab title.	#64 04
Bug Fix	Remove leading whitespace and replace it with '['...' in the Query Tool data grid, so cells don't look empty.	#64 27
Bug Fix	Users can search in all types or subscriptions in search objects without having access to subscriptions.	#64 48
Bug Fix	Users can add members while creating a Login/Role group.	#64 66
Bug Fix	The properties panel of the Role displays the calendar.	#64 69
Bug Fix	Execute/Refresh button should not be disabled when we run the empty query.	#64 89
Bug Fix	New Connection Drop Down has lost default maintenance database, auto-select, and tab-through functionality.	#65 05
Bug Fix	The Decimal number is appended for character varying fields while downloading the data in CSV format.	#65 20

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Bug Fix	The Directory selection issue with the folder dialog.	#65 36
Bug Fix	The setting 'Open in new browser tab' is visible and not based on the value of 'ENABLE_PSQL'.	#65 41
Bug Fix	Copy/paste issues for PSQL tool terminal.	#65 47
Bug Fix	Disable email deliverability check that was introduced in flask-security-too by default to maintain backward compatibility.	#65 50
Bug Fix	Incorrect column name listed in the properties of Index.	#65 57
Bug Fix	Paste is not working through Right-Click option on PSQL.	#65 74
Bug Fix	TypeError 'NoneType' object is not sub scriptable.	#65 80
Bug Fix	Incorrect tablespace options in the drop-down for move objects dialog.	#65 86
Bug Fix	Titles in query tabs are different.	#66 18
Bug Fix	Incorrect binary path issue when the user deletes the binary path from the preferences.	#66 19
Bug Fix	Ensure that all the required options should be loaded when the Range data type is selected while creating a custom data type.	#66 43
Bug Fix	Dashboard server activity issue when active_since parameter is None.	#66 50

VERSION 8.1.1

The bug fix in PEM 8.1.1 is:

T ype	Description	ID
Bug Fix	REST API tokens are being generated but clients are unable to access the endpoints when using the valid tokens in a service. [Support Ticket: RT71632]	PE M-3 893

VERSION 8.1.0

New features, enhancements, bug fixes, and other changes in PEM 8.1.0 include:

Type	Description	ID
New Feature	BDR (Bi-Directional Replication) dashboards and probes to monitor status and activities for Admin, Nodes, and Groups. For example, if replication starts falling behind, the administrator will be alerted and can take proactive action. See Monitoring BDR Nodes .	PEM-3893
New Feature	Kerberos security and authentication for PEM Web Client through GSSAPI or Active Directory Domain Services. Prevent password interception and prove identity required by highly regulated industries. [Support Ticket #1044678] See Configuring the PEM Server to use Kerberos Authentication .	PEM-3559
New Feature	Entity-Relationship Diagram (ERD) design tool that graphically represents database tables, columns, and interrelationships. Conceptualize database design before building or reverse engineering. See The ERD Tool .	# 6397
New Feature	Logical replication support to manage publications and subscriptions for core logical replication in Postgres. Send incremental changes across different database versions or platforms.	# 5912
New Feature	Quick Search option to locate features and relevant help articles with a guided user experience. Type three characters to start displaying matching possibilities.	# 6148
Enhancement	EDB Postgres Extended (used by BDR Enterprise) certified for monitoring and administration.	PEM-4015
Enhancement	Configuration parameters for Audit Manager, Tuning Wizard, and Log Manager no longer require a restart of the database. [Support Ticket #649078]	PEM-795, PEM-1465, PEM-3829
Enhancement	Manage the privileges for a package node with Grant Wizard.	# 1591
Enhancement	Maximize/restore the window for the properties dialog.	# 4064
Enhancement	While examining the group role, display the login roles.	# 5404
Enhancement	Set automatic width of columns by content size in the data output window.	# 5954
Enhancement	Support for cache busting webpack chunk files.	# 5477

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Enhancement	SSL support for creating a subscription.	# 6201
Enhancement	Support for the creation of Nested Table and Varying Array Type for Advanced Server.	# 6407
Enhancement	Comment column in the properties panel for View and Materialized View collection node.	# 6416
Bug Fix	Process the alert if there is an error while processing alert detailed information. [Support Ticket #1201865]	PEM-1032
Bug Fix	Remove the obsolete data of a deleted database from pemhistory on the next purge. Support Ticket #1055978]	PEM-3810
Bug Fix	Flapping does not end when at least a one-time alert triggered during the flapping period. [Support Ticket #1165155]	PEM-3966
Bug Fix	Getting 404 for REST API of agent probe history. [Support Ticket #1219795]	PEM-3974
Bug Fix	The “A user expires in N days” alert template code failing on Postgres. [Support Ticket #1235289]	PEM-3988
Bug Fix	Check for sslutils for version 1.3 in the configure script. [Support Ticket #1284690]	PEM-4042
Bug Fix	Correct OID for binding variable “downObjects” for Agents-Down and ServersDown alerts. [Support Ticket #1300113]	PEM-4073
Bug Fix	Read the log configuration data from the system probe tables for the selected servers in the Log Manager. [Support Ticket #1262817]	PEM-4029
Bug Fix	Skip the PEM Server registration when installing using only a web server option to avoid duplicate entries in the server listing. [Support Ticket #1210935]	PEM-3977
Bug Fix	Alignment issues under preferences for the German language.	# 4014
Bug Fix	Issue with renaming the database by another user.	# 4203
Bug Fix	Drag and drop object is not correct in CodeMirror for properties dialog.	# 4436
Bug Fix	Adding/updating records fails if the table name contains a percent sign.	# 4438
Bug Fix	Ensure that autovacuum and analyze scale factors should be editable with more than two decimals.	# 4784
Bug Fix	% displayed twice in Explain Analyze for query and table.	# 4847
Bug Fix	Rename text ‘table’ to ‘relation’ in the Statistics tab for Explain Analyze.	# 4849
Bug Fix	Properties tab for Collection Nodes is unresponsive after switching the tabs.	# 4959
Bug Fix	Save button is enabled for functions/procedures by default when opening the Properties dialog.	# 5073
Bug Fix	Hanging symlinks in a directory causes Select file dialog to break.	# 5119
Bug Fix	Ensure that the Query Tool tab should be closed after server disconnection when auto-commit/auto-rollback is set to false.	# 5519
Bug Fix	Data is displayed in the wrong order when executing the query repeatedly.	# 5555
Bug Fix	Ensure that cell content is auto-selected when editing the cell data.	# 5810

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Bug Fix	Ensure that SQL formatter should not add extra tabs and format the SQL correctly.	# 5869
Bug Fix	Shortcut keys are not working with manage macro.	# 5908
Bug Fix	Encoding issue when database encoding set to SQL_ASCII and name of the column is in ASCII character.	#6 018
Bug Fix	Ensure that the user should not change the connection when a long query is running.	# 6082
Bug Fix	Flickering issue with the input box on check constraints.	# 6106
Bug Fix	User is unable to update column-level privileges from the security tab.	# 6117
Bug Fix	Ensure that the user should be able to kill the session from Dashboard if the user has a 'pg_signal_backend' role.	# 6159
Bug Fix	Cursor shifts its focus to the wrong window for all the Query Tool related model dialogs.	# 6161
Bug Fix	Correct the syntax for 'CREATE TRIGGER', use 'EXECUTE FUNCTION' instead of 'EXECUTE PROCEDURE' from Postgres v11 onwards.	# 6220
Bug Fix	User is not able to create the subscription.	# 6230
Bug Fix	Ensure that SQL formatter should not use tab size if 'Use spaces?' set to false.	# 6233
Bug Fix	Ensure that the view/edit data panel should not be opened for unsupported nodes using the keyboard shortcut.	# 6206
Bug Fix	User is unable to create a subscription if the host/IP address for connection is 127.0.0.1.	# 6253
Bug Fix	Ensure that proper error messages should be shown on the properties and statistics tab in case of insufficient privileges for a subscription.	# 6259
Bug Fix	'Create Slot' option is disabled in case of the same IP/host provided but the port is different.	# 6260
Bug Fix	User is not able to change the connection in the Query Tool when any SQL file is opened.	# 6272
Bug Fix	Ensure that the strings in the LDAP auth module are translatable.	# 6274
Bug Fix	Schema diff shows the wrong SQL when comparing triggers with different when clauses.	# 6281
Bug Fix	Ensure that the template database should be visible while creating the database.	# 6286
Bug Fix	String index out of range error where the dependent tab is in focus and selecting any publication or table.	# 6292
Bug Fix	Procedure creation failed when providing the Volatility option.	# 6293
Bug Fix	Dependent tab threw an error when selecting any Login/Group role.	#6 294
Bug Fix	While selecting the row which was deleted just before the selection operation.	# 6306
Bug Fix	Incorrect values were visible in the Dependents tab for publication.	# 6307
Bug Fix	Copy/paste rows in view data paste the wrong value for Boolean type.	# 6312
Bug Fix	Ensure that the primary key should be visible properly in the Table dialog.	# 6316
Bug Fix	Ensure that toggle buttons are accessible by most screen readers.	# 6317

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Bug Fix	Ensure that the grantor name should be visible properly for the Security tab in the Table dialog.	# 6323
Bug Fix	Ensure that the file format for the storage manager should be 'All files' and for other dialogs, it should remember the last selected format.	# 6325
Bug Fix	Ensure that while comparing domains check function dependencies should be considered in schema diff.	# 6327
Bug Fix	Wrong SQL is showing for the child partition tables.	# 6329
Bug Fix	Sizing issue of help dialog for Query Tool when open in the new browser tab.	# 6333
Bug Fix	CSV download quotes the numeric columns.	# 6341
Bug Fix	Cannot unpack non-iterable response object error when selecting any partition.	# 6344
Bug Fix	Ensure that we should not allow opening external files that are dragged into it.	# 6355
Bug Fix	Users are unable to see data of the partitions using the View/Edit data option.	# 6375
Bug Fix	A connection warning should be displayed when the user clicks on Explain or Explain Analyze and the database server is disconnected from the browser tree.	# 6376
Bug Fix	Schema diff does not create DROP DEFAULT statements for columns.	# 6377
Bug Fix	Foreign data wrapper properties are not visible if the host option contains two host addresses.	# 6379
Bug Fix	Ensure that Backup and Restore should work on shared servers.	# 6385
Bug Fix	The filter 'Include/Exclude By Selection' is not working for null values.	# 6392
Bug Fix	Ensure that the user should not be able to add duplicate panels.	# 6399
Bug Fix	Current debug line is not visible in the 'Dark' theme.	# 6409
Bug Fix	Duplicate columns are visible in the browser tree, which is owned by two sequences.	# 6413
Bug Fix	Help message was not displaying correctly on the Login/Group role.	# 6414
Bug Fix	Query editor is not being closed if the user clicks on the 'Don't Save' button.	# 6417
Bug Fix	File dialog shows incorrect files for the selected file types.	# 6443
Bug Fix	Duplicate SQL issue for tables with more than one partition.	# 6478

VERSION 8.0.1

Enhancements, bug fixes, and other changes in PEM 8.0.1 include:

Type	Description	ID
Enhancement	Allowing the dash (-) character in the superuser name that is provided during configuration. [Support Ticket #1055435]	PEM-3577
Enhancement	Gracefully closing the operating system resources during batch probe and command execution to avoid errors. [Support Ticket #1048713]	PEM-3881
Enhancement	Improved support for Unicode string handling in pemAgent. [Support Ticket #1153153]	PEM-3901
Enhancement	Option to hide or unhide the Dashboard, Statistics, Dependents, and Dependencies tabs.	#5091
Enhancement	Improve the explain plan details by showing popup instead of tooltip on clicking of the specified node.	#5488
Enhancement	Added appropriate help message and a placeholder for letting users know about the account password expiry for Login/Group Role.	#5973
Enhancement	Added informative message when there is no difference found for schema diff.	#6122
Enhancement	Added 'Count Rows' option to the partition sub tables.	#5282
Bug Fix	Dashboard refresh not displaying BART. [Support Ticket #1046037] backups.	PEM-3549
Bug Fix	Bundle pgaevent.dll in agent Windows installer to suppress event message log error. [Support Ticket #1106021]	PEM-3845
Bug Fix	BART restore failing when the agent is not bound with the BART server. [Support Ticket #1129454]	PEM-3903
Bug Fix	Pressing the back button shows another instance of the main page inside of the Query Tool tab.	#4892
Bug Fix	The focus is not properly set on the filter text editor after closing the error dialog.	#5809
Bug Fix	Ensure that username should be visible in the 'Connect to Server' popup when service and user name are both specified.	#5871
Bug Fix	Ensure that the 'template1' database should not be visible after pg_upgrade.	#5875
Bug Fix	False error is shown while adding a new foreign key from the table dialog when a foreign key already exists and Auto FK Index set to true.	#5886
Bug Fix	The Save button is enabled by default in Macro.	#5905

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Bug Fix	Remove the extra line after the Manage Macros menu while clearing all macros.	#5906
Bug Fix	Ensure that 'Clear All Rows' should not work if there is no existing macro available and the user does not specify any value.	#5907
Bug Fix	The server is disconnected with an error message displayed if the user creates Macro with invalid SQL.	#5929
Bug Fix	Ensure that the macro query result should be downloaded properly.	#5965
Bug Fix	Ensure that dirty indicator (*) should not be visible when renaming the tabs.	#5991
Bug Fix	The escape character is shown when the server/database name has some special characters.	#5992
Bug Fix	Update Flask-BabelEx to the latest.	#5997
Bug Fix	Schema diff doesn't show the result of compare if source schema has tables with RLS.	#5998
Bug Fix	An illegal argument is showing for trigger SQL when a trigger is created for View.	#6003
Bug Fix	Autocomplete issue where it is not showing any suggestions if the schema name contains escape characters.	#6045
Bug Fix	The state of the Save File icon does not match the dirty editor indicator.	#6046
Bug Fix	The dirty indicator stays active even if all changes were undone.	#6047
Bug Fix	Ensure that the rename panel should be disabled when the SQL file opened in the query tool.	#6058
Bug Fix	Extra parentheses issue around joins for Views.	#6061
Bug Fix	Accessibility issues in schema diff module.	#6065
Bug Fix	Issue on refreshing files in Query Tool.	#6069
Bug Fix	Accessibility issues in various dialogs.	#6077
Bug Fix	TypeError exception in schema diff when selected any identical object.	#6084
Bug Fix	The dependencies tab showing multiple owners for the objects having shared dependencies.	#6087
Bug Fix	Issue of deleting records when the user tries to delete multiple records.	#6098
Bug Fix	Ensure that the user should be able to specify an older date for the account expiration of the role/user.	#6120
Bug Fix	The database list in the new connection window is not visible.	#6121
Bug Fix	Sequences are not created.	#6128
Bug Fix	Ensure that verbose logs should be visible for Utility (Backup, Maintenance) jobs.	#6140
Bug Fix	Ensure that the current value of the sequence should be ignored while comparing using schema diff.	#6144
Bug Fix	Strikethrough is not visible for rows selected for deletion after scrolling.	#6157
Bug Fix	User was unable to change the background color for a server.	#6178
Bug Fix	Utility (Backup, Maintenance) jobs are failing when the log level is set to DEBUG.	#6208

VERSION 8.0.0

New features, enhancements, bug fixes, and other changes in PEM 8.0.0 include:

Type	Description	ID
New Feature	Security Best Practices: PEM Security Best Practices documentation is available from our docs website. It will help you to setup PEM in a secure way to minimize the risk of vulnerabilities.	PEM-3802, PEM-3805
New Feature	Webhooks: You can now use PEM to send event based notifications to webhook endpoints like third party systems or partner applications.	PEM-3819
Enhancement	Performance Diagnostics: Use the Performance Diagnostic tool with PostgreSQL 10 or later versions after installing 'edb_wait_states' plugin.	NA
Enhancement	PEM Backend Database: The PEM Server (backend database) supports only PostgreSQL or EDB Postgres Advanced Server versions 11 or later.	NA
Enhancement	Enhanced Alerting: You can now replace alert placeholders inside the script and also can view more informative and contextual alert details. [Support Ticket #1051538, #891377]	PEM-3612, PEM-3613, PEM-2501
Enhancement	Enhanced BART Integration: Configure 'bart_socket_name' and also parameters such as '-checksum-algorithm' and '-disable-checksum' through PEM.	PEM-3669
Enhancement	You can use the Macros feature in the Query tool.	#1402
Enhancement	You can use the trigger function under the respective trigger node.	#2519
Enhancement	You can download the utility files at the client side using Storage Manager.	#3318
Enhancement	You can use the open Query tool tab to change the database connection.	#3794
Enhancement	You can rename the Query tool and Debugger tab.	#4230
Enhancement	You can ignore the owner while comparing the objects through Schema diff tool.	#5200
Enhancement	Improved installation and upgrade guide as per customer feedback. [Support Ticket # 1101462]	PEM-3808
Bug Fix	Documented that while configuring the pem server, certificates must be present in data directory of backend database server in the installation guides. [Support Ticket # 729238]	PEM-672

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Bug Fix	Connections not getting released when the user disconnects the database server. [Support Ticket #969833]	PEM-3184
Bug Fix	Fixed an issue where BART integration isn't working, when BART is installed at custom location. [Support Ticket #1088574]	PEM-3737
Bug Fix	Do not include detailed alert information while sending SNMP traps. [Support Ticket #1069206, #1115277]	PEM-3791
Bug Fix	Two database connections made for failed login attempts which result in locking the user profile. [Support Ticket #1103288]	PEM-3816
Bug Fix	Package deployment and streaming replication deprecation warning is added in Upgrade and Migration Guide. [Support Ticket #1021617]	PEM-3799
Bug Fix	Ensure that some fields should be disabled for the trigger in edit mode.	#4639
Bug Fix	Added a useful message when the explain plan is not used and empty.	#4806
Bug Fix	File extension is stripped on renaming a file.	#4855
Bug Fix	Ensure that the 'ctrl + a' shortcut does not move the cursor in the SQL Editor.	#5131
Bug Fix	Fixed an issue where schema diff is showing identical tables as different due to default vacuum settings.	#5826
Bug Fix	Fixed reverse engineering SQL where parenthesis is not properly arranged for View/MView definition.	#5830
Bug Fix	Fixed 'can't execute an empty query' message if the user changes the option of Auto FK Index.	#5835
Bug Fix	Fixed an issue where the server is not able to connect using the service.	#5841
Bug Fix	Ensure that query history should be listed by date/time in descending order.	#5842
Bug Fix	Fixed an issue where the 'PARALLEL UNSAFE' option is missing from reverse engineering SQL of function/procedure.	#5843
Bug Fix	Fixed an issue where 'Rows X' column values were not visible properly for Explain Analyze in Dark theme.	#5853
Bug Fix	Ensure that the user should be able to change the start value of the existing sequence.	#5855
Bug Fix	Ensure that search object functionality works with case insensitive strings.	#5858
Bug Fix	Fixed invalid literal issue when fetching dependencies for Materialized View.	#5882
Bug Fix	Fixed an issue where the user is unable to change the macro name.	#5885
Bug Fix	Fixed an issue where the suffix for Toast table size is not visible in the Statistics tab.	#5895
Bug Fix	Ensure that macros should be run on the older version of Safari and Chrome.	#5911
Bug Fix	Fixed an issue where a mismatch in the value of 'Estimated row' for functions.	#5914
Bug Fix	Fixed an issue where non-closable tabs are getting closed.	#5923
Bug Fix	Ensure that folder rename should work properly in Storage Manager.	#5943

continues on next page

Table 1 – continued from previous page

Type	Description	ID
Bug Fix	Fixed an issue where a long file name is not visible on the process watcher dialog.	#5950
Bug Fix	Fixed an issue where connection to the server is on wait state if a different user is provided.	#5953
Bug Fix	Ensure that Grant Wizard should include foreign tables.	#5959
Bug Fix	Fixed an issue where the debugger's custom tab title did not apply when opened in the new browser tab.	#5974
Bug Fix	Fixed an issue where the dynamic tab title has not applied the first time for the debugger panel.	#5978
Bug Fix	Added the appropriate server icon based on the server type in the new connection dialog.	#5983
Bug Fix	Fixed an issue where the process watcher dialog throws an error for the database server which is already removed.	#5985