



EDB

Postgres Enterprise Manager Release Notes

Release 8.4.0

EDB

Apr 13, 2022

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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
[8.4.0](04_840_rel_notes)	Apr 2022	NA	[Conformance Report](https://www.enterprisedb.com/accessibility)
[8.3.0](05_830_rel_notes)	Nov 2021	pgAdmin [5.7](https://www.pgadmin.org/docs/pgadmin4/5.7/release_notes_5_7.html#bug-fixes)	[Conformance Report](https://www.enterprisedb.com/accessibility)
[8.2.0](06_820_rel_notes)	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](https://www.pgadmin.org/docs/pgadmin4/5.6/release_notes_5_6.html#bug-fixes)	[Conformance Report](https://www.enterprisedb.com/accessibility)
[8.1.1](07_811_rel_notes)	Jul 2021	NA	NA
[8.1.0](08_810_rel_notes)	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](https://www.pgadmin.org/docs/pgadmin4/5.3/release_notes_5_3.html#bug-fixes)	[Conformance Report](https://www.enterprisedb.com/accessibility)

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Version	Release Date	Upstream Merges	Accessibility Conformance
[8.0.1](09_801_rel_notes_8.0.1.pdf)	3 Mar 2021	pgAdmin [4.29](https://www.pgadmin.org/docs/pgadmin4/4.29/release_notes_4_29.html#bug-fixes), [4.30](https://www.pgadmin.org/docs/pgadmin4/4.30/release_notes_4_30.html#bug-fixes), and [5.0](https://www.pgadmin.org/docs/pgadmin4/5.3/release_notes_5_0.html#bug-fixes)	NA
[8.0.0](10_800_rel_notes_8.0.0.pdf)	9 Dec 2020	pgAdmin [4.27](https://www.pgadmin.org/docs/pgadmin4/4.29/release_notes_4_27.html#bug-fixes), [4.28](https://www.pgadmin.org/docs/pgadmin4/4.29/release_notes_4_28.html#bug-fixes), and [4.29](https://www.pgadmin.org/docs/pgadmin4/4.29/release_notes_4_29.html#bug-fixes)	[Conformance Report](https://www.enterprisedb.com/accessibility)

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 8.4.0

New features, enhancements, bug fixes, and other changes in PEM 8.4.0 include:

Type	Description	ID
New Feature	Built-in support for monitoring Barman backups. See [Monitoring Barman](../pem_ent_feat/18_monitoring_barman) for more information.	PEM-4435
Security Fix	Hardened against unrestricted file uploads as reported in the medium severity CVE-2022-0959.	PEM-4442
Enhancement	Monitoring of transaction ID (TXID) wraparound for exhaustion and to prevent failure.	PEM-3990
Enhancement	Removed unnecessary monitoring of virtual file systems. [Support Ticket #573096]	PEM-806
Enhancement	Sorting based on status for agent and server tables in the dashboard.	PEM-4152
Enhancement	Option to disable the Query Tool for users in order to restrict viewing data. [Support Ticket #74976]	PEM-4315
Enhancement	Support for Postgres extension-based probes for multi-version flexibility. Updating to newer versions are no longer required.	PEM-4391
Enhancement	Improved the Linux installation instructions with added details and steps.	PEM-4381
Bug Fix	A new installation grants the <i>pem_admin</i> role to the superuser. [Support Ticket #79577]	PEM-4433
Bug Fix	For display tables, numeric fields sorted by numeric order, not alphabetical order. [Support Ticket #1111704]	PEM-3827
Bug Fix	Limits the decimal precision displayed for monitoring percentages.	PEM-4144
Bug Fix	Duplicate key value violates unique constraint blocked_session_info_pkey. [Support Ticket #RT75870]	PEM-4333
Bug Fix	Probe error for Postgres Extended 14.	PEM-4356
Bug Fix	PEM agent not gathering data after upgrade. [Support Ticket #78679]	PEM-4430
Bug Fix	Added an option in preferences to change the line ending of the email body content from LF(Line Feed) to CRLF (Carriage Return Line Feed). This fixes missing alert body content in email notifications. [Support Ticket #833910]	PEM-1832

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Type	Description	ID
Bug Fix	Fixed pg_isready time out issue in configure script [Support Ticket #RT75651]	PEMESC-386

VERSION 8.3.0

New features, enhancements, bug fixes, and other changes in PEM 8.3.0 include:

Type	Description	ID
New Feature	New roles, pem_manage_dashboard and pem_manage_chart for creating and managing charts and dashboards are added.	PEM-728
Enhancement	Supports proxy in the PEM agent webhook configuration [Support Ticket #72432].	PEM-4185
Enhancement	Support Export/Import Custom charts and Custom Dashboards using PEM GUI and RESTapi.	PEM-4300, PEM-4325, PEM-3443, PEM-4215
Enhancement	Mask the username from the login related errors when displaying on GUI and return generic error message. [Support Ticket #1341245]	PEM-4150
Enhancement	Support for PostgreSQL, EDB Postgres Advanced Server and EDB Postgres Extended version 14 is added.	PEM-4091
Enhancement	Support for monitoring status and activities for bdr.stat_subscription and bdr.stat_relation on BDR (Bi-Directional Replication) dashboards and probes is added.	PEM-4179
Bug Fix	Support for the truncate table with restart identity.	[#2538](https://redmine.postgresql.org/issues/2538)
Bug Fix	Make code folding case insensitive in the code mirror.	[#4264](https://redmine.postgresql.org/issues/4264)
Bug Fix	The database and server information displays on the maintenance process watcher dialog.	[#4629](https://redmine.postgresql.org/issues/4629)
Bug Fix	Allow the referenced table to be the same as the local table in one to many relationship for ERD Tool.	[#6495](https://redmine.postgresql.org/issues/6495)
Bug Fix	Make closing tabs to be smarter by focusing on the appropriate tab when the user closed a tab.	[#6625](https://redmine.postgresql.org/issues/6625)
Bug Fix	Set PSQLRC and PSQL_HISTORY environment variables to any specific path to have user separate psql history files.	[#6691](https://redmine.postgresql.org/issues/6691)
Bug Fix	Table chart rendering for numeric metrics is enhanced. [Support Ticket #880817]	PEM-2251

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Type	Description	ID
Bug Fix	A notification banner displays on the monitoring panel when user tries to access excluded database dashboard.	PEM-4218
Bug Fix	User can use the same internal SMTP TLS settings for 2FA & Email alerts both.	PEM-4262
Bug Fix	The maxlength of url & payload to allow long values in webhook module is increased. [Support Ticket #75367]	PEM-4326
Bug Fix	The SQL query to revoke privileges on objects like tables are correctly displayed in SQL tab.	[#4567](https://redmine.postgresql.org/issues/4567)
Bug Fix	The user can paste the updated table header in safari 12 and 13 browsers.	[#4815](https://redmine.postgresql.org/issues/4815)
Bug Fix	Ensure that trigger function SQL should have 'create or replace function' instead of 'create function' only.	[#5849](https://redmine.postgresql.org/issues/5849)
Bug Fix	The images can be exported for the relations where the lines are over the nodes.	[#6531](https://redmine.postgresql.org/issues/6531)
Bug Fix	The columns with sequences do not get altered unnecessarily with a schema diff tool.	[#6564](https://redmine.postgresql.org/issues/6564)
Bug Fix	The Decimal number is appended for character varying fields while downloading the data in CSV format.	[#6572](https://redmine.postgresql.org/issues/6572)
Bug Fix	The data output panel display is partially fixed.	[#6536](https://redmine.postgresql.org/issues/6536)
Bug Fix	The whitespace in function bodies are applied while generating the script using schema diff tool.	[#6620](https://redmine.postgresql.org/issues/6620)
Bug Fix	Enables PEM to retrieve user permissions in case of nested roles which helps to terminate the session for AWS RDS.	[#6641](https://redmine.postgresql.org/issues/6641)
Bug Fix	The errors related to HTML tags shown in the error message for JSON editor are fixed.	[#6668](https://redmine.postgresql.org/issues/6668)
Bug Fix	Fixed UnboundLocalError where local variable 'user_id' referenced before assignment.	[#6671](https://redmine.postgresql.org/issues/6671)
Bug Fix	Renamed 'Auto rollback?' to 'Auto rollback on error?'.	[#6682](https://redmine.postgresql.org/issues/6682)
Bug Fix	The JSON editor issue of hiding the first record.	[#6684](https://redmine.postgresql.org/issues/6684)
Bug Fix	Ensure that deleting a database should not automatically connect to the next database.	[#6685](https://redmine.postgresql.org/issues/6685)

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Type	Description	ID
Bug Fix	Multiple query tool tabs does not get closed for the single close event.	[#6710](https://redmine.postgresql.org/issues/6710)

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_inst_guide_linux/04_installing_postgres_enterprise_manager/07_1_configuring_2fa_authentication).	PEM-3680, PEM-4090
New Feature	View, edit, and format JSON data rendered in an effective way in the Query Tool.	[#5198](https://redmine.postgresql.org/issues/5198)
Enhancement	Ability to exclude a particular database from PEM monitoring [Support Ticket #1196669]. See [Exclude a database from PEM Monitoring](../pem_admin/02_registering_server/#manually-registering-a-server).	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.	[#1975](https://redmine.postgresql.org/issues/1975)
Enhancement	Do not block the query editor window while running a query.	[#3920](https://redmine.postgresql.org/issues/3920)
Enhancement	Copy SQL from main window to query tool.	[#4904](https://redmine.postgresql.org/issues/4904)
Enhancement	Set the binary path for the different database server versions.	[#5370](https://redmine.postgresql.org/issues/5370)
Enhancement	Provide maximum width of the column when ‘Resize by data?’ option in the preferences is set to True.	[#6559](https://redmine.postgresql.org/issues/6559)
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.	[#4189](https://redmine.postgresql.org/issues/4189)
Bug Fix	Replace the keyboard shortcut issue in the query tool on the standard keyboard layout.	[#6388](https://redmine.postgresql.org/issues/6388)

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Type	Description	ID
Bug Fix	Detaching the query editor panel gives a blank white panel.	[#6398](https://redmine.postgresql.org/issues/6398)
Bug Fix	The Query Tool does not change the connection string as per the <i>Query Tool tab title</i> .	[#6404](https://redmine.postgresql.org/issues/6404)
Bug Fix	Remove leading whitespace and replace it with ‘[...]’ in the Query Tool data grid, so cells don’t look empty.	[#6427](https://redmine.postgresql.org/issues/6427)
Bug Fix	Users can search in <i>all types</i> or <i>subscriptions</i> in search objects without having access to subscriptions.	[#6448](https://redmine.postgresql.org/issues/6448)
Bug Fix	Users can add members while creating a Login/Role group.	[#6466](https://redmine.postgresql.org/issues/6466)
Bug Fix	The properties panel of the Role displays the calendar.	[#6469](https://redmine.postgresql.org/issues/6469)
Bug Fix	Execute/Refresh button should not be disabled when we run the empty query.	[#6489](https://redmine.postgresql.org/issues/6489)
Bug Fix	New Connection Drop Down has lost default maintenance database, auto-select, and tab-through functionality.	[#6505](https://redmine.postgresql.org/issues/6505)
Bug Fix	The Decimal number is appended for character varying fields while downloading the data in CSV format.	[#6520](https://redmine.postgresql.org/issues/6520)
Bug Fix	The Directory selection issue with the folder dialog.	[#6536](https://redmine.postgresql.org/issues/6536)
Bug Fix	The setting ‘Open in new browser tab’ is visible and not based on the value of ‘ENABLE_PSQL’.	[#6541](https://redmine.postgresql.org/issues/6541)
Bug Fix	Copy/paste issues for PSQL tool terminal.	[#6547](https://redmine.postgresql.org/issues/6547)
Bug Fix	Disable email deliverability check that was introduced in flask-security-too by default to maintain backward compatibility.	[#6550](https://redmine.postgresql.org/issues/6550)
Bug Fix	Incorrect column name listed in the properties of Index.	[#6557](https://redmine.postgresql.org/issues/6557)
Bug Fix	Paste is not working through Right-Click option on PSQL.	[#6574](https://redmine.postgresql.org/issues/6574)
Bug Fix	TypeError ‘NoneType’ object is not subscriptable.	[#6580](https://redmine.postgresql.org/issues/6580)

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Type	Description	ID
Bug Fix	Incorrect tablespace options in the drop-down for move objects dialog.	[#6586](https://redmine.postgresql.org/issues/6586)
Bug Fix	Titles in query tabs are different.	[#6618](https://redmine.postgresql.org/issues/6618)
Bug Fix	Incorrect binary path issue when the user deletes the binary path from the preferences.	[#6619](https://redmine.postgresql.org/issues/6619)
Bug Fix	Ensure that all the required options should be loaded when the Range data type is selected while creating a custom data type.	[#6643](https://redmine.postgresql.org/issues/6643)
Bug Fix	Dashboard server activity issue when active_since parameter is None.	[#6650](https://redmine.postgresql.org/issues/6650)

VERSION 8.1.1

The bug fix in PEM 8.1.1 is:

Type	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]	PEM-3893

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_ent_feat/17_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_inst_guide_linux/04_installing_postgres_enterprise_manager/06_configuring_the_pem_server/04_configuring_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](../pem_ent_feat/04_pem_erd_tool/).	[#6397](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/1591)
Enhancement	Maximize/restore the window for the properties dialog.	[#4064](https://redmine.postgresql.org/issues/4064)

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Type	Description	ID
Enhancement	While examining the group role, display the login roles.	[#5404](https://redmine.postgresql.org/issues/5404)
Enhancement	Set automatic width of columns by content size in the data output window.	[#5954](https://redmine.postgresql.org/issues/5954)
Enhancement	Support for cache busting webpack chunk files.	[#5477](https://redmine.postgresql.org/issues/5477)
Enhancement	SSL support for creating a subscription.	[#6201](https://redmine.postgresql.org/issues/6201)
Enhancement	Support for the creation of Nested Table and Varying Array Type for Advanced Server.	[#6407](https://redmine.postgresql.org/issues/6407)
Enhancement	Comment column in the properties panel for View and Materialized View collection node.	[#6416](https://redmine.postgresql.org/issues/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 AgentsDown 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](https://redmine.postgresql.org/issues/4014)
Bug Fix	Issue with renaming the database by another user.	[#4203](https://redmine.postgresql.org/issues/4203)
Bug Fix	Drag and drop object is not correct in CodeMirror for properties dialog.	[#4436](https://redmine.postgresql.org/issues/4436)

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Type	Description	ID
Bug Fix	Adding/updating records fails if the table name contains a percent sign.	[#4438](https://redmine.postgresql.org/issues/4438)
Bug Fix	Ensure that autovacuum and analyze scale factors should be editable with more than two decimals.	[#4784](https://redmine.postgresql.org/issues/4784)
Bug Fix	% displayed twice in Explain Analyze for query and table.	[#4847](https://redmine.postgresql.org/issues/4847)
Bug Fix	Rename text 'table' to 'relation' in the Statistics tab for Explain Analyze.	[#4849](https://redmine.postgresql.org/issues/4849)
Bug Fix	Properties tab for Collection Nodes is unresponsive after switching the tabs.	[#4959](https://redmine.postgresql.org/issues/4959)
Bug Fix	Save button is enabled for functions/procedures by default when opening the Properties dialog.	[#5073](https://redmine.postgresql.org/issues/5073)
Bug Fix	Hanging symlinks in a directory causes Select file dialog to break.	[#5119](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/5519)
Bug Fix	Data is displayed in the wrong order when executing the query repeatedly.	[#5555](https://redmine.postgresql.org/issues/5555)
Bug Fix	Ensure that cell content is auto-selected when editing the cell data.	[#5810](https://redmine.postgresql.org/issues/5810)
Bug Fix	Ensure that SQL formatter should not add extra tabs and format the SQL correctly.	[#5869](https://redmine.postgresql.org/issues/5869)
Bug Fix	Shortcut keys are not working with manage macro.	[#5908](https://redmine.postgresql.org/issues/5908)
Bug Fix	Encoding issue when database encoding set to SQL_ASCII and name of the column is in ASCII character.	[#6018](https://redmine.postgresql.org/issues/6018)
Bug Fix	Ensure that the user should not change the connection when a long query is running.	[#6082](https://redmine.postgresql.org/issues/6082)
Bug Fix	Flickering issue with the input box on check constraints.	[#6106](https://redmine.postgresql.org/issues/6106)
Bug Fix	User is unable to update column-level privileges from the security tab.	[#6117](https://redmine.postgresql.org/issues/6117)

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Type	Description	ID
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](https://redmine.postgresql.org/issues/6159)
Bug Fix	Cursor shifts its focus to the wrong window for all the Query Tool related model dialogs.	[#6161](https://redmine.postgresql.org/issues/6161)
Bug Fix	Correct the syntax for 'CREATE TRIGGER', use 'EXECUTE FUNCTION' instead of 'EXECUTE PROCEDURE' from Postgres v11 onwards.	[#6220](https://redmine.postgresql.org/issues/6220)
Bug Fix	User is not able to create the subscription.	[#6230](https://redmine.postgresql.org/issues/6230)
Bug Fix	Ensure that SQL formatter should not use tab size if 'Use spaces?' set to false.	[#6233](https://redmine.postgresql.org/issues/6233)
Bug Fix	Ensure that the view/edit data panel should not be opened for unsupported nodes using the keyboard shortcut.	[#6206](https://redmine.postgresql.org/issues/6206)
Bug Fix	User is unable to create a subscription if the host/IP address for connection is 127.0.0.1.	[#6253](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/6259)
Bug Fix	'Create Slot' option is disabled in case of the same IP/host provided but the port is different.	[#6260](https://redmine.postgresql.org/issues/6260)
Bug Fix	User is not able to change the connection in the Query Tool when any SQL file is opened.	[#6272](https://redmine.postgresql.org/issues/6272)
Bug Fix	Ensure that the strings in the LDAP auth module are translatable.	[#6274](https://redmine.postgresql.org/issues/6274)
Bug Fix	Schema diff shows the wrong SQL when comparing triggers with different when clauses.	[#6281](https://redmine.postgresql.org/issues/6281)
Bug Fix	Ensure that the template database should be visible while creating the database.	[#6286](https://redmine.postgresql.org/issues/6286)
Bug Fix	String index out of range error where the dependent tab is in focus and selecting any publication or table.	[#6292](https://redmine.postgresql.org/issues/6292)
Bug Fix	Procedure creation failed when providing the Volatility option.	[#6293](https://redmine.postgresql.org/issues/6293)
Bug Fix	Dependent tab threw an error when selecting any Login/Group role.	[#6294](https://redmine.postgresql.org/issues/6294)

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Type	Description	ID
Bug Fix	While selecting the row which was deleted just before the selection operation.	[#6306](https://redmine.postgresql.org/issues/6306)
Bug Fix	Incorrect values were visible in the Dependents tab for publication.	[#6307](https://redmine.postgresql.org/issues/6307)
Bug Fix	Copy/paste rows in view data paste the wrong value for Boolean type.	[#6312](https://redmine.postgresql.org/issues/6312)
Bug Fix	Ensure that the primary key should be visible properly in the Table dialog.	[#6316](https://redmine.postgresql.org/issues/6316)
Bug Fix	Ensure that toggle buttons are accessible by most screen readers.	[#6317](https://redmine.postgresql.org/issues/6317)
Bug Fix	Ensure that the grantor name should be visible properly for the Security tab in the Table dialog.	[#6323](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/6325)
Bug Fix	Ensure that while comparing domains check function dependencies should be considered in schema diff.	[#6327](https://redmine.postgresql.org/issues/6327)
Bug Fix	Wrong SQL is showing for the child partition tables.	[#6329](https://redmine.postgresql.org/issues/6329)
Bug Fix	Sizing issue of help dialog for Query Tool when open in the new browser tab.	[#6333](https://redmine.postgresql.org/issues/6333)
Bug Fix	CSV download quotes the numeric columns.	[#6341](https://redmine.postgresql.org/issues/6341)
Bug Fix	Cannot unpack non-iterable response object error when selecting any partition.	[#6344](https://redmine.postgresql.org/issues/6344)
Bug Fix	Ensure that we should not allow opening external files that are dragged into it.	[#6355](https://redmine.postgresql.org/issues/6355)
Bug Fix	Users are unable to see data of the partitions using the View/Edit data option.	[#6375](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/6376)
Bug Fix	Schema diff does not create DROP DEFAULT statements for columns.	[#6377](https://redmine.postgresql.org/issues/6377)

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Type	Description	ID
Bug Fix	Foreign data wrapper properties are not visible if the host option contains two host addresses.	[#6379](https://redmine.postgresql.org/issues/6379)
Bug Fix	Ensure that Backup and Restore should work on shared servers.	[#6385](https://redmine.postgresql.org/issues/6385)
Bug Fix	The filter 'Include/Exclude By Selection' is not working for null values.	[#6392](https://redmine.postgresql.org/issues/6392)
Bug Fix	Ensure that the user should not be able to add duplicate panels.	[#6399](https://redmine.postgresql.org/issues/6399)
Bug Fix	Current debug line is not visible in the 'Dark' theme.	[#6409](https://redmine.postgresql.org/issues/6409)
Bug Fix	Duplicate columns are visible in the browser tree, which is owned by two sequences.	[#6413](https://redmine.postgresql.org/issues/6413)
Bug Fix	Help message was not displaying correctly on the Login/Group role.	[#6414](https://redmine.postgresql.org/issues/6414)
Bug Fix	Query editor is not being closed if the user clicks on the 'Don't Save' button.	[#6417](https://redmine.postgresql.org/issues/6417)
Bug Fix	File dialog shows incorrect files for the selected file types.	[#6443](https://redmine.postgresql.org/issues/6443)
Bug Fix	Duplicate SQL issue for tables with more than one partition.	[#6478](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/5091)
Enhancement	Improve the explain plan details by showing popup instead of tooltip on clicking of the specified node.	[#5488](https://redmine.postgresql.org/issues/5488)
Enhancement	Added appropriate help message and a placeholder for letting users know about the account password expiry for Login/Group Role.	[#5973](https://redmine.postgresql.org/issues/5973)
Enhancement	Added informative message when there is no difference found for schema diff.	[#6122](https://redmine.postgresql.org/issues/6122)
Enhancement	Added 'Count Rows' option to the partition sub tables.	[#5282](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/4892)
Bug Fix	The focus is not properly set on the filter text editor after closing the error dialog.	[#5809](https://redmine.postgresql.org/issues/5809)

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Type	Description	ID
Bug Fix	Ensure that username should be visible in the ‘Connect to Server’ popup when service and user name are both specified.	[#5871](https://redmine.postgresql.org/issues/5871)
Bug Fix	Ensure that the ‘template1’ database should not be visible after pg_upgrade.	[#5875](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/5886)
Bug Fix	The Save button is enabled by default in Macro.	[#5905](https://redmine.postgresql.org/issues/5905)
Bug Fix	Remove the extra line after the Manage Macros menu while clearing all macros.	[#5906](https://redmine.postgresql.org/issues/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](https://redmine.postgresql.org/issues/5907)
Bug Fix	The server is disconnected with an error message displayed if the user creates Macro with invalid SQL.	[#5929](https://redmine.postgresql.org/issues/5929)
Bug Fix	Ensure that the macro query result should be downloaded properly.	[#5965](https://redmine.postgresql.org/issues/5965)
Bug Fix	Ensure that dirty indicator (*) should not be visible when renaming the tabs.	[#5991](https://redmine.postgresql.org/issues/5991)
Bug Fix	The escape character is shown when the server/database name has some special characters.	[#5992](https://redmine.postgresql.org/issues/5992)
Bug Fix	Update Flask-BabelEx to the latest.	[#5997](https://redmine.postgresql.org/issues/5997)
Bug Fix	Schema diff doesn’t show the result of compare if source schema has tables with RLS.	[#5998](https://redmine.postgresql.org/issues/5998)
Bug Fix	An illegal argument is showing for trigger SQL when a trigger is created for View.	[#6003](https://redmine.postgresql.org/issues/6003)
Bug Fix	Autocomplete issue where it is not showing any suggestions if the schema name contains escape characters.	[#6045](https://redmine.postgresql.org/issues/6045)
Bug Fix	The state of the Save File icon does not match the dirty editor indicator.	[#6046](https://redmine.postgresql.org/issues/6046)
Bug Fix	The dirty indicator stays active even if all changes were undone.	[#6047](https://redmine.postgresql.org/issues/6047)

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Type	Description	ID
Bug Fix	Ensure that the rename panel should be disabled when the SQL file opened in the query tool.	[#6058](https://redmine.postgresql.org/issues/6058)
Bug Fix	Extra parentheses issue around joins for Views.	[#6061](https://redmine.postgresql.org/issues/6061)
Bug Fix	Accessibility issues in schema diff module.	[#6065](https://redmine.postgresql.org/issues/6065)
Bug Fix	Issue on refreshing files in Query Tool.	[#6069](https://redmine.postgresql.org/issues/6069)
Bug Fix	Accessibility issues in various dialogs.	[#6077](https://redmine.postgresql.org/issues/6077)
Bug Fix	TypeError exception in schema diff when selected any identical object.	[#6084](https://redmine.postgresql.org/issues/6084)
Bug Fix	The dependencies tab showing multiple owners for the objects having shared dependencies.	[#6087](https://redmine.postgresql.org/issues/6087)
Bug Fix	Issue of deleting records when the user tries to delete multiple records.	[#6098](https://redmine.postgresql.org/issues/6098)
Bug Fix	Ensure that the user should be able to specify an older date for the account expiration of the role/user.	[#6120](https://redmine.postgresql.org/issues/6120)
Bug Fix	The database list in the new connection window is not visible.	[#6121](https://redmine.postgresql.org/issues/6121)
Bug Fix	Sequences are not created.	[#6128](https://redmine.postgresql.org/issues/6128)
Bug Fix	Ensure that verbose logs should be visible for Utility (Backup, Maintenance) jobs.	[#6140](https://redmine.postgresql.org/issues/6140)
Bug Fix	Ensure that the current value of the sequence should be ignored while comparing using schema diff.	[#6144](https://redmine.postgresql.org/issues/6144)
Bug Fix	Strikethrough is not visible for rows selected for deletion after scrolling.	[#6157](https://redmine.postgresql.org/issues/6157)
Bug Fix	User was unable to change the background color for a server.	[#6178](https://redmine.postgresql.org/issues/5091)
Bug Fix	Utility (Backup, Maintenance) jobs are failing when the log level is set to DEBUG.	[#6208](https://redmine.postgresql.org/issues/5091)

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: [<i>PEM Security Best Practices</i>](../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](https://redmine.postgresql.org/issues/1402)
Enhancement	You can use the trigger function under the respective trigger node.	[#2519](https://redmine.postgresql.org/issues/2519)
Enhancement	You can download the utility files at the client side using Storage Manager.	[#3318](https://redmine.postgresql.org/issues/3318)
Enhancement	You can use the open Query tool tab to change the database connection.	[#3794](https://redmine.postgresql.org/issues/3794)

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Type	Description	ID
Enhancement	You can rename the Query tool and Debugger tab.	[#4230](https://redmine.postgresql.org/issues/4230)
Enhancement	You can ignore the owner while comparing the objects through Schema diff tool.	[#5200](https://redmine.postgresql.org/issues/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
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](https://redmine.postgresql.org/issues/4639)
Bug Fix	Added a useful message when the explain plan is not used and empty.	[#4806](https://redmine.postgresql.org/issues/4806)
Bug Fix	File extension is stripped on renaming a file.	[#4855](https://redmine.postgresql.org/issues/4855)
Bug Fix	Ensure that the 'ctrl + a' shortcut does not move the cursor in the SQL Editor.	[#5131](https://redmine.postgresql.org/issues/5131)
Bug Fix	Fixed an issue where schema diff is showing identical tables as different due to default vacuum settings.	[#5826](https://redmine.postgresql.org/issues/5826)
Bug Fix	Fixed reverse engineering SQL where parenthesis is not properly arranged for View/MView definition.	[#5830](https://redmine.postgresql.org/issues/5830)
Bug Fix	Fixed 'can't execute an empty query' message if the user changes the option of Auto FK Index.	[#5835](https://redmine.postgresql.org/issues/5835)
Bug Fix	Fixed an issue where the server is not able to connect using the service.	[#5841](https://redmine.postgresql.org/issues/5841)

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Type	Description	ID
Bug Fix	Ensure that query history should be listed by date/time in descending order.	[#5842](https://redmine.postgresql.org/issues/5842)
Bug Fix	Fixed an issue where the 'PARALLEL UNSAFE' option is missing from reverse engineering SQL of function/procedure.	[#5843](https://redmine.postgresql.org/issues/5843)
Bug Fix	Fixed an issue where 'Rows X' column values were not visible properly for Explain Analyze in Dark theme.	[#5853](https://redmine.postgresql.org/issues/5853)
Bug Fix	Ensure that the user should be able to change the start value of the existing sequence.	[#5855](https://redmine.postgresql.org/issues/5855)
Bug Fix	Ensure that search object functionality works with case insensitive strings.	[#5858](https://redmine.postgresql.org/issues/5858)
Bug Fix	Fixed invalid literal issue when fetching dependencies for Materialized View.	[#5882](https://redmine.postgresql.org/issues/5882)
Bug Fix	Fixed an issue where the user is unable to change the macro name.	[#5885](https://redmine.postgresql.org/issues/5885)
Bug Fix	Fixed an issue where the suffix for Toast table size is not visible in the Statistics tab.	[#5895](https://redmine.postgresql.org/issues/5895)
Bug Fix	Ensure that macros should be run on the older version of Safari and Chrome.	[#5911](https://redmine.postgresql.org/issues/5911)
Bug Fix	Fixed an issue where a mismatch in the value of 'Estimated row' for functions.	[#5914](https://redmine.postgresql.org/issues/5914)
Bug Fix	Fixed an issue where non-closable tabs are getting closed.	[#5923](https://redmine.postgresql.org/issues/5923)
Bug Fix	Ensure that folder rename should work properly in Storage Manager.	[#5943](https://redmine.postgresql.org/issues/5943)
Bug Fix	Fixed an issue where a long file name is not visible on the process watcher dialog.	[#5950](https://redmine.postgresql.org/issues/5950)
Bug Fix	Fixed an issue where connection to the server is on wait state if a different user is provided.	[#5953](https://redmine.postgresql.org/issues/5953)
Bug Fix	Ensure that Grant Wizard should include foreign tables.	[#5959](https://redmine.postgresql.org/issues/5959)
Bug Fix	Fixed an issue where the debugger's custom tab title did not apply when opened in the new browser tab.	[#5974](https://redmine.postgresql.org/issues/5974)

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Type	Description	ID
Bug Fix	Fixed an issue where the dynamic tab title has not applied the first time for the debugger panel.	[#5978](https://redmine.postgresql.org/issues/5978)
Bug Fix	Added the appropriate server icon based on the server type in the new connection dialog.	[#5983](https://redmine.postgresql.org/issues/5983)
Bug Fix	Fixed an issue where the process watcher dialog throws an error for the database server which is already removed.	[#5985](https://redmine.postgresql.org/issues/5985)