Azure Diagnostics for Azure Database for PostgreSQL

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Azure Diagnostics for PostgreSQL

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2:04 PM

Azure Database for PostgreSQL is integrated with Azure Monitor Diagnostic Logs. it allows you to send the PostgreSQL logs and Audit logs to Azure Monitor logs for analytics and alerting,Event Hubs, or Azure Storage. To learn more about how to enable diagnostic logs, see the how to section of the [diagnostic logs documentation](https://docs.microsoft.com/en-us/azure/postgresql/concepts-server-logs#diagnostic-logs).

From <https://docs.microsoft.com/en-us/azure/postgresql/concepts-server-logs#diagnostic-logs>

- **Query Samples:**

```
// Search for autovacuum events over the last 24 hours
// Requires parameter 'log_autovacuum_min_duration' enabled
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "automatic vacuum" | where TimeGenerated > ago(1d)
// Errors in the last 6 hours
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where errorLevel_s contains "error" | where TimeGenerated > ago(6h)
// Server shut down and server ready events
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "database system was shut down at" or Message contains "database system is ready to accept" | where TimeGenerated > ago(7d)
// Search for unauthorized (rejected) connection attempts
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "password authentication failed" or Message contains "no pg_hba.conf entry for host"
// Deadlock
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "deadlock detected"
// Lock contention
// Requires log_lock_waits=ON and depends on deadlock_timeout setting
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "still waiting for ShareLock on transaction"
// All audit logs
// Requires audit logs enabled: https://docs.microsoft.com/azure/postgresql/concepts-audit
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "AUDIT:"
// Audit logs for a specific table and event type DDL
// Other event types are READ, WRITE, FUNCTION, MISC
// Requires audit logs enabled: https://docs.microsoft.com/azure/postgresql/concepts- audit
AzureDiagnostics
| where Category == "PostgreSQLLogs" | where LogicalServerName_s == "server name" | where Message contains "AUDIT:" | where Message contains "table name" and Message contains "DDL"
```

How good have you found this content?

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