

5 Things to Include on Your **PostgreSQL Security Checklist**

Securing data is mission-critical for the success of any enterprise, as well as for the safety of its customers. This PostgreSQL Security Checklist infographic presents a framework and a series of recommendations to secure and protect a PostgreSQL database.

The following five checkpoints encompass physical security, network security, host access control, database access management, and data security.







pg_hba.conf Peer & Indent Authenticating by the underlying operating system



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Securing

authentication

pg_hba.conf Md5 vs. SCRAM Prevent sniffing, and store hashed passwords on the server

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pg_hba.conf LDAP vs. Kerberos Implementation of Single Sign-On (SSO) systems



pg_hba.conf TLC Certificates

Authenticate automated systems that need to connect across the network to a Postgres server



authentication_timeout

The maximum amount of authentication time allowed before the server closes the connection



Auth_delay Restrict brute force attacks



Password Complexity

C development or use an external identity service



Password Profiles Ensure users maintain strong passwords



Securing roles

Data access

control

SET ROLE

Using NOINHERIT keyword when creating a role



Monitoring Roles

Grant specific privileges to roles that are used to monitor the system



ACLs

Make use of group roles to simplify privilege management for individual login roles



GRANT & REVOKE

Give the group roles the minimum level of privilege required to work

RLS (Row Level Security)

Define policies that limit the visibility of rows in a table to certain roles



Restrict the ability to select from the underlying tables, and have to access the data from the view instead

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Security barriers



never sees the hidden rows



Security Definer Functions

Provide specific functionality to roles that cannot perform those tasks directly themselves

Data redaction



Hide specific pieces of sensitive information from users



This infographic is intended as a comprehensive overview that will help you examine the security of your PostgreSQL deployment from end to end.

To learn more best practices for PostgreSQL security, download our whitepaper!

Get the Whitepaper