# pgAudit Overview

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### **About David**

- Principal Architect at Crunchy Data, the Trusted Open Source Enterprise PostgreSQL Leader.
- Actively developing with PostgreSQL since 1999.
- PostgreSQL Contributor.
- Primary author of pgBackRest and co-author of pgAudit.



## Why pgAudit?

- The goal of the PostgreSQL Audit extension (pgAudit) is to provide PostgreSQL users with capability to produce audit logs often required to comply with government, financial, or ISO certifications.
- Organizations may also have internal requirements that can be satisfied with pgAudit.
- Can also be used for detailed debugging, metrics, and monitoring.



# Example (log\_statement = all)

#### User statement:

```
DO $$
BEGIN
EXECUTE 'CREATE TABLE import' || 'ant_table (id INT)';
END $$;
```

#### What gets logged:

```
LOG: statement: DO $$
BEGIN
EXECUTE 'CREATE TABLE import' || 'ant_table (id INT)';
END $$;
```



# **Example (pgAudit)**

#### User statement:

```
DO $$
BEGIN
EXECUTE 'CREATE TABLE import' || 'ant_table (id INT)';
END $$;
```

#### What gets logged:

```
AUDIT: SESSION, 33, 1, FUNCTION, DO,,,, "DO $$
BEGIN

EXECUTE 'CREATE TABLE import' || 'ant_table (id INT)';
END $$;"
AUDIT: SESSION, 33, 2, DDL, CREATE TABLE, TABLE, public.important_table, CREATE TABLE important_table (id INT)
```

# **Stability**

- Stability is one of the primary goals of pgAudit.
- Each release is maintained on a separate branch like PostgreSQL (e.g. REL\_11\_STABLE).
- Only bug fixes are back-patched.



## The Future

- Add new logging class MISC\_SET.
- Add user settable comment field.



## **Questions?**

website: http://www.pgaudit.org

source: https://github.com/pgaudit/pgaudit

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