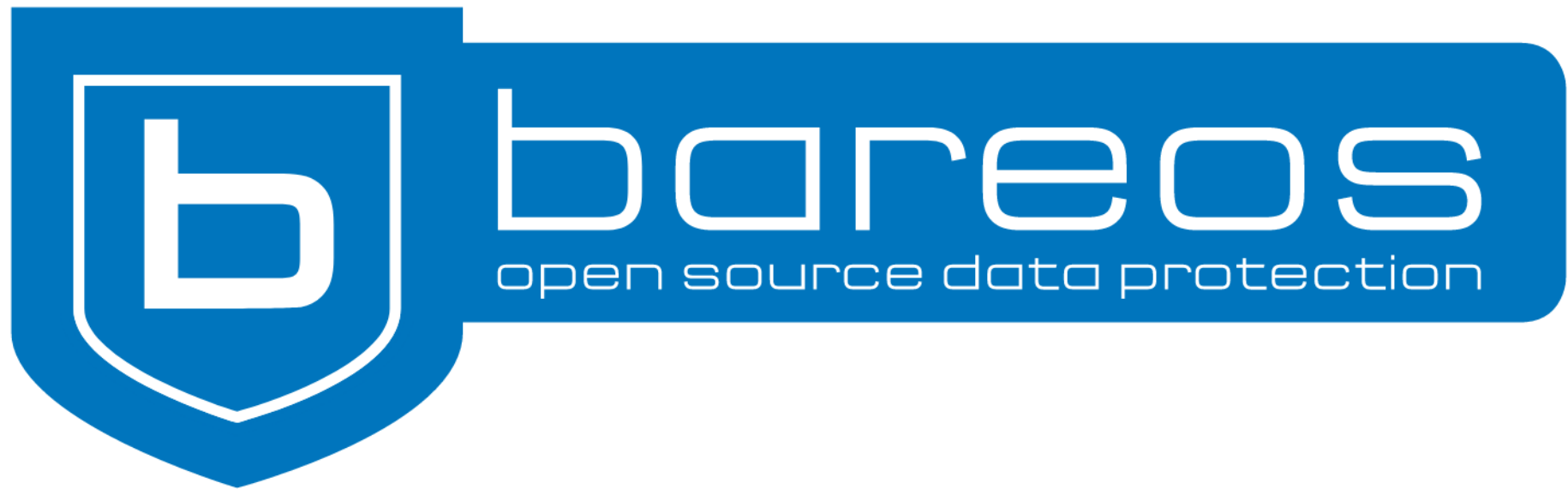




BAREOS 23

THE postgresql PLUGIN



AGENDA

- What is it?
- Why a new plugin?
- Advantages over the old postgres plugin
- How it works
- How to migrate

WHAT IS THE POSTGRESQL PLUGIN?

- Makes consistent PostgreSQL backups
- Does NOT do a Database Dump
- Interacts with PostgreSQL
- PostgreSQL stores consistent status to filesystem
- Backs up database files from filesystem

WHY A NEW PLUGIN?

- API used in old plugin was removed in PG 15
- Bareos 23 drops Python 2 support
- Legacy code with some drawbacks needed modernization
- Lack of tablespace support

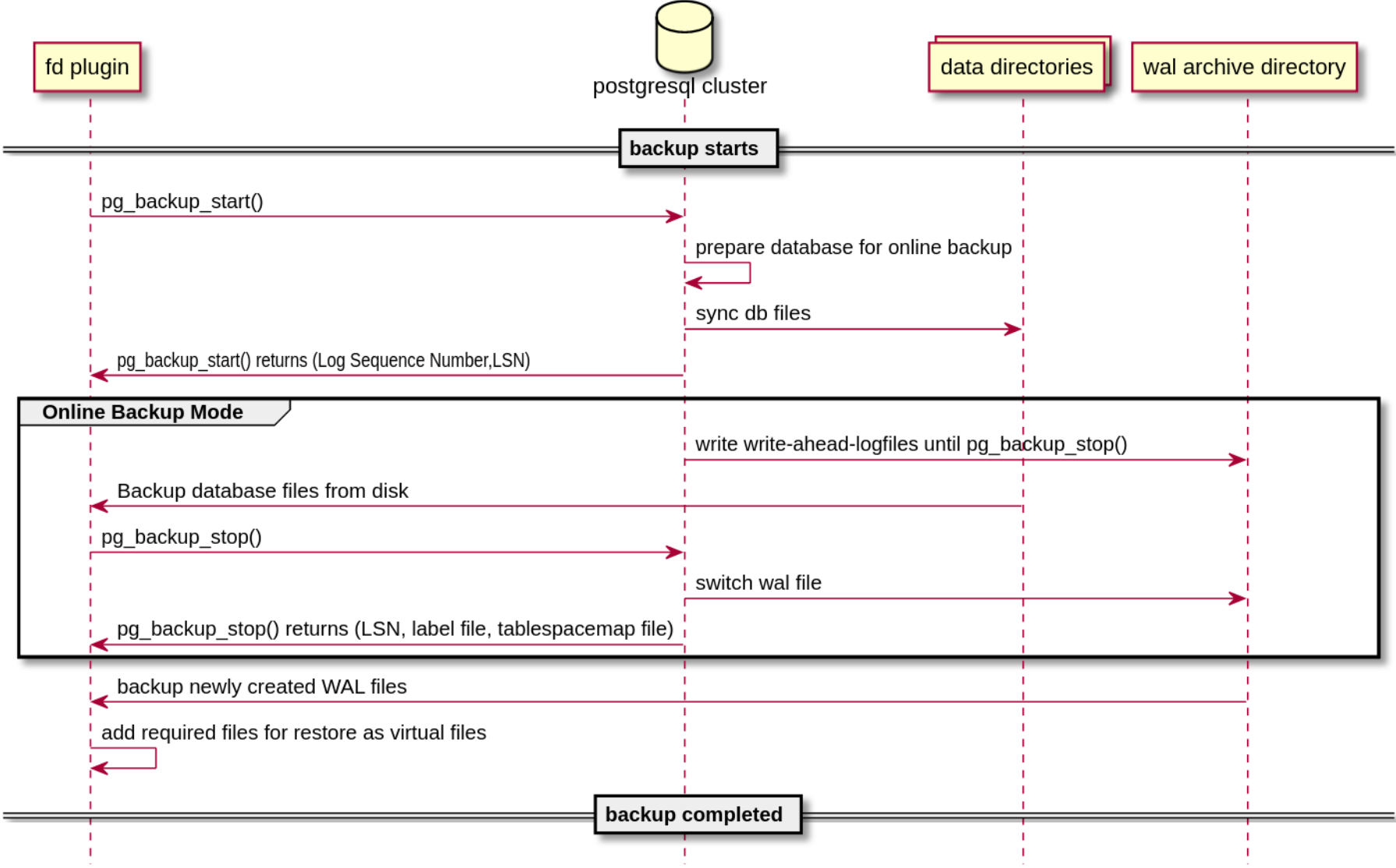
OVERVIEW

- Use recommended `non-exclusive` backup API
- Supports Postgresql 10 to 16
- Supports table spaces
- Requires Python ≥ 3.6 and `pg8000` ≥ 1.16
- Consists of only one source file
- Plugin Name is `postgresql`(old: `postgres`)
- Verifies Postgresql major number between backups

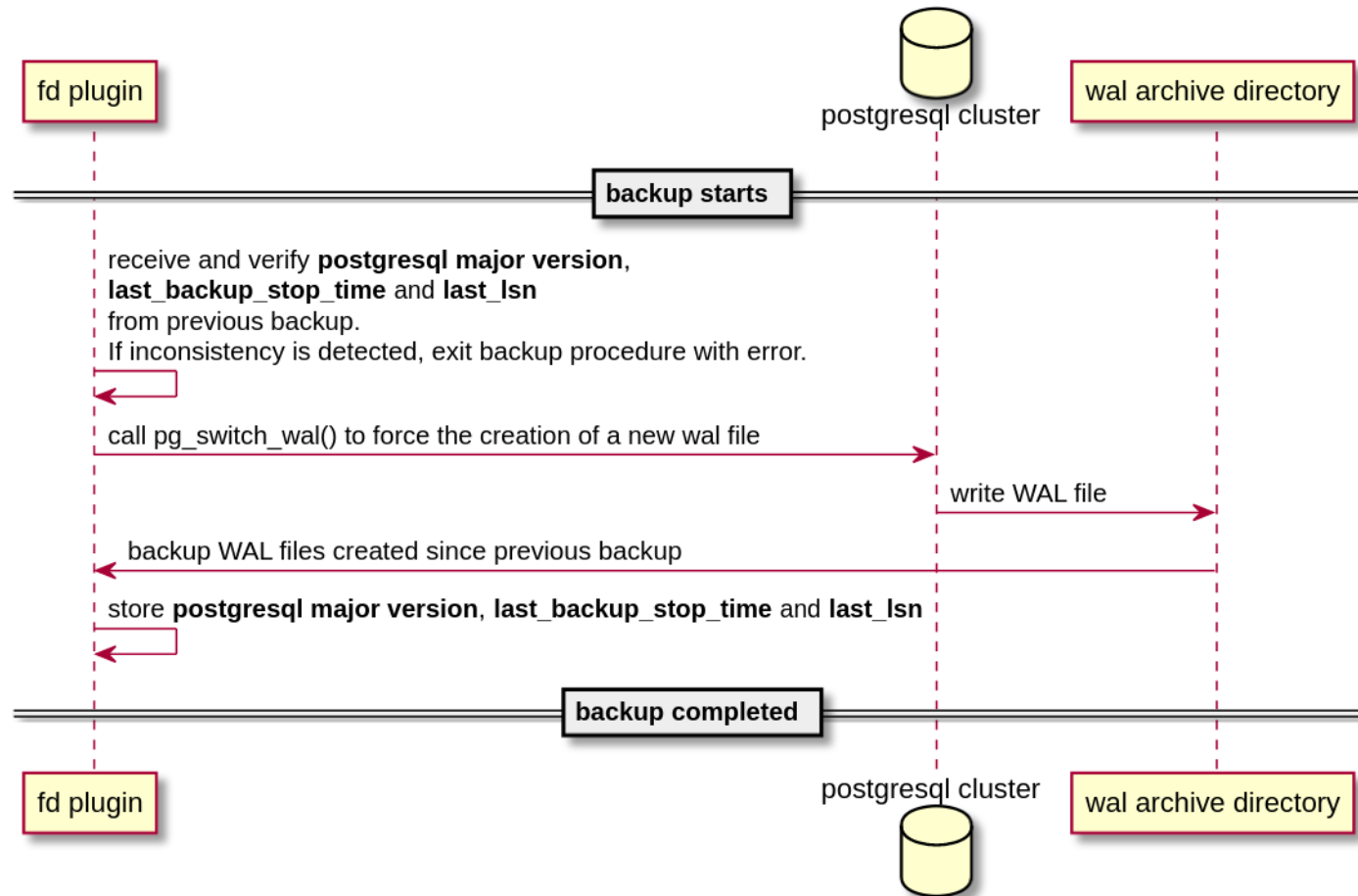
COMPARISON

Name	postgres	postgresql
Postgres Vers.	9-14	10-16+
Python Vers.	2 and 3	3 only
backup mode	exclusive	none-exclusive
tablespaces	not supported	supported

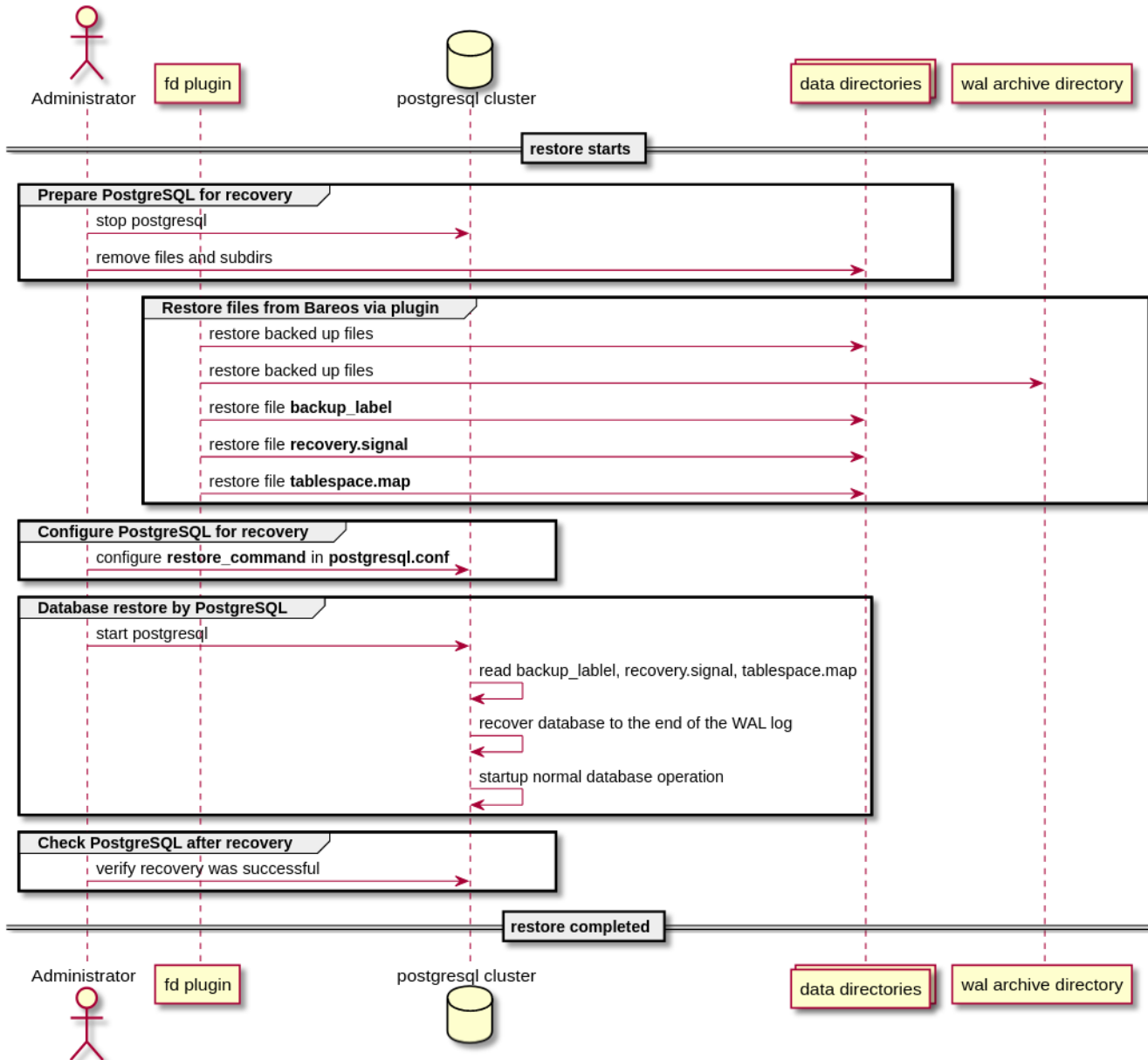
FULL BACKUP PROCEDURE



INCREMENTAL/DIFFERENTIAL BACKUP PROCEDURE



RESTORE



SEE IT IN ACTION

- Sourcecode contains test for the plugin
- `systemtests/tests/py3plug-fd-postgresql/`
- Backup, restore and verification
- Very handy to check how things work

SWITCH TO THE NEW PLUGIN (1)

- both in `bareos-fd-plugin-postgresql`
- Old is `postgres`, new is `postgresql`
- Old plugin emits warning message during backup
- Old plugin will be removed in Bareos 24
- Users need to switch to new plugin

SWITCH TO THE NEW PLUGIN (2)

- Adapt the configuration to use new plugin
- Review the configuration of the new plugin
- Make sure full and incremental backups work
- Verify the restore works
- Both plugins can be used in parallel during migration

THANK YOU VERY MUCH!

- Documentation: docs.bareos.org
- Mailinglist: bareos-users@googlegroups.com
- Sourcecode: github.com/bareos/bareos
- subscription, support, consulting available via:
www.bareos.com
- Philipp.Storz@bareos.com

