

PGaaS – Operation Document

GTS/PAS/DRE

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# Introduction

PGaaS is an offer delivered by GTS to partners ITEC, BSC and ITIM throught Doitnow portal :

go/doitnow or <https://doitnow.fr.world.socgen/home> (with Chrome and Sesame password)

Go through Catalog > DATABASE - PostgreSQL

You should then read the following documentation:

Service Description : <https://objs3parstd01.fr.world.socgen/eu-fr-paris-std-prd-gdp-186760-prd-documentation/services/postgres/description.html#svc:description-0>

Getting started : <https://objs3parstd01.fr.world.socgen/eu-fr-paris-std-prd-gdp-186760-prd-documentation/services/postgres/gettingstarted.html>

User resources : <https://objs3parstd01.fr.world.socgen/eu-fr-paris-std-prd-gdp-186760-prd-documentation/services/postgres/resources/index.html>

Release notes : <https://objs3parstd01.fr.world.socgen/eu-fr-paris-std-prd-gdp-186760-prd-documentation/services/postgres/releasenote.html#svc:release_note-0>

Support : <https://objs3parstd01.fr.world.socgen/eu-fr-paris-std-prd-gdp-186760-prd-documentation/services/postgres/support/index.html#svc:support-0>

# Main contacts

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# Standards

## Naming convention

### VM hosts

Name of host is : [1 digit for environment][fixed **DAP** trigram][LX for Linux][nnnn increment]

Example : D**DAP**LXnnnn for a Dev host

### PostgreSQL servers

Name of PostgreSQL server : [PG][3 digits for location][1 digit for silo][application trigram][1 digit for environment][nnn increment] ...

Example: PGPARxTriDnnn for Dev PostgreSQL server, PGPARxTriPnnn for Prod PostgreSQL environment

Note that :

ADB application trigram is reserved for DBA

DAP application trigram is reserved for FT PGaaS

## Installation standards

### Filesystems

Same as ex-MKT standards.

/\*/ To update Base filesystem

/\*/ To update Wal filesystem

/\*/ etc

## Backup tool

### Previously PGHoard, now PgBackrest

/\*/ To update PgBackrest

PGhoard was the tool managing backup cycle life.

This is the official documentation : <https://github.com/aiven/pghoard>

The PGHoard configuration file is there : /var/lib/pghoard/S4.json

### Object storage

/\*/ To update

The pghoad deamon create full backup and wal backup on filesystem then copy them in a S3 storage

/\*/ To update

## Monitoring tool, Truesight console, Incidents

Zabbix tool is deployed on all PGaaS VM.

Alerts are visible on BMC TrueSight console:

<https://sharp.socgen/#/>

Monitoring > Event > Search with DDAP or PDAP key word

Incidents are created in JUMP group : GTS\_WW\_DRE.OPY

## GDAT inventory

Go to GDAT inventory <http://wwwdba.fr.world.socgen/> to get more information on PostgreSQL servers

# Incidents

## How to access PGAAS VM host

/\*/ To update

Use the RET Citrix gateway called “Maps” <https://citrixaccess.int.world.socgen/Citrix/iDeskWeb/>

From BUREAUX tab, run PAA Desktop

Run a Putty session (Xid account with Whats password)

## PostgreSQL availability issues

### Start/stop of cluster

Don’t use pg\_ctl to manage the PG cluster. Otherwise, the client API will not be able to manage the PostgreSQL cluster anymore

Use for :

* Stop : sudo systemctl stop postgresql95.service
* Start : sudo systemctl start postgresql95.service
* Status : systemctl status postgresql95.service

## Backup issues

/\*/ To update

### PGhoard deamon down

For some reasons, you might need to run : sudo systemctl daemon-reload

### List of backups

pghoard\_restore list-basebackups --config /var/lib/pghoard/S4.json

### Restore command

pghoard\_restore get-basebackup --config /var/lib/pghoard/S4.json --target-dir "{{ postgresql\_data\_path }}" --restore-to-master --recovery-target-time "{{ recotime }}"

recotime : ISO format

# Requests / Changes

## Check with PGaaS FT

If client requests directly to DBA (through tickets or emails) requests or changes (add an extension, configuration change, etc), it means or it should mean that he can’t manage it with an API. In this case, you have to check with PGaaS FT if you can go ahead.