ZABBIX PostgreSQL 11 custom cluster installation

Follow up

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| --- | --- | --- |
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Distribution list

This document has been distributed to:

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| Name | Functions |
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Release notes

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| --- | --- | --- |
| Version number | Date | Modifications |
| 1.0 | Dec 13, 2019 | Create |
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| Repository link (i.e sharepoint) |
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# Purpose of this document

## Context

This document is intended to describe step by step installation PostGreSQL 11 on a flexserver VM.

## Objectives

How to perform a PostgreSQL 11 installation

## Pre-required

This section will present mandatory pre-requisites.

O.S:

Target : host

|  |  |
| --- | --- |
| **Operating system** | **Version** |
| CentOS | 6.x / 7.x |

Database PostGres:

Target : Host database engine

|  |  |
| --- | --- |
| **PostreSQL** | **Version** |
| **PostreSQL** | 11.x |

PostGreSQL 11.x is a community version

# Description of PostGreSQL 11.x Installation

## Ecosystem installation

We first run the puppet module related to postgres:

<https://ppaas.fr.world.socgen/puppet/> : [dba\_pgsql::default\_server](https://ppaas.fr.world.socgen/puppet/helpmod.php?modu_id=162259&back&scope=Public)

This will install all the Postgres ecosystem: variables, directories, etc.

## Cleanup and setup before PG11 cluster installation

* In the **$PGDATA** directory, you need to remove everything as you will replace it with a PG 11 distribution:

cd $PGDATA

rm -fr \*

* Have IAS team perform the following actions:
  + uninstall PG 9.x
  + install **PG 11**
  + install **Timescaledb** extension package
* Make sure the desired port is correctly set:

PGPORT=5433 # or the one you want

## PostgreSQL 11 installation

You need to initialize the new cluster :

/usr/pgsql-11/bin/initdb -D $PGDATA -k

-k option is used to enable checksum

Stop the cluster if it has started

pg\_ctl stop

modify the /<SERVICE>/postgres/pgtab file so that it looks like this:

<CLUSTER>:/usr/pgsql-11/:/<SERVICE>/postgres/<CLUSTER>:Y

Once done, disconnect your session and reconnect to the host to be in the correct context.

Copy a pg\_hba.conf file (located in $PGDATA) that is normed to GCR standards from another host that is already correctly configured (selprddb06 or selprddb07 for example).

You should also copy a postgresql.conf file (located in $PGDATA) from another system. You need to change the hostname, cluster name and the port number in the file, 3 lines use this information:

listen\_addresses = '<HOSTNAME>' # what IP address(es) to listen on;

archive\_command = 'test -d /<HOSTNAME>/pgarch01/<CLUSTERNAME> && test ! -f /<HOSTNAME>/pgarch01/<CLUSTERNAME>/%f.gz && /bin/gzip -1 <%p > /<HOSTNAME>/pgarch01/<CLUSTERNAME>/%f.gz' # command to use to archive a logfile segment

port=<PORT NUMBER> # (change requires restart)

In this file you have to verify that extensions are stated in “shared\_preload\_libraries”, it should look like this:

shared\_preload\_libraries = 'pg\_stat\_statements, timescaledb' # (change requires restart)

## Post installation steps

* Create account “adb\_admin”
* Create technical accounts “walle” and “telegraf”  
  you can find the
* Add extensions timescaledb and pg\_stat\_statements

CREATE EXTENSION IF NOT EXISTS pg\_stat\_statements;  
\c Zabbix  
CREATE EXTENSION IF NOT EXISTS timescaledb CASCADE;

* Disassociate the hostname in puppet.