☐ Vonng / pigsty Public

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Security

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Wiki

pigsty.cc

locker #redis #ansible #distribution ostgres #grafana #prometheus #postgis tcd #haproxy #minio #high-availability ds #citus #observability latabase-as-code #patroni #dbaas mescaledb #opensource-alternative

- Readme
- AGPL-3.0 license
- Security policy
- Activity
- 1.4k stars
- 37 watching
- **171** forks

port repository

eleases 28

v2.4.0 PG16 & RDS Mon... (Latest) last week

27 releases

ackages

packages published

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anguages

pgsql-migration.yml	add pg migration feature to migrate existing pg	8 months ago
pgsql-monitor.yml	refactor pg_exporters role: register grafana dat	last week
pgsql-rm.yml	add docs,usage,util & examples to pgsql playb	9 months ago
pgsql-user.yml	bug fix: pg_mode not exists for create pg users	6 months ago
pgsql.yml	polish document	7 months ago
pigsty.yml	bump version to v2.4.0	last week
redis-rm.yml	fix redis port example in playbook and bin scripts	last week
redis.yml	check redis_sentinel_monitor before render sc	last week

∃ README.md

Pigsty

"PostgreSQL In Great STYle."

— A battery-included, local-first, open-source RDS PG alternative.

Release v2.4.0 | Repo | Demo | Docs | Blog | Telegram | Discord

Get Started with curl -fsSL https://get.pigsty.cc/latest | bash

Features

Free RDS for PostgreSQL! Check Feature | 0000 for details.

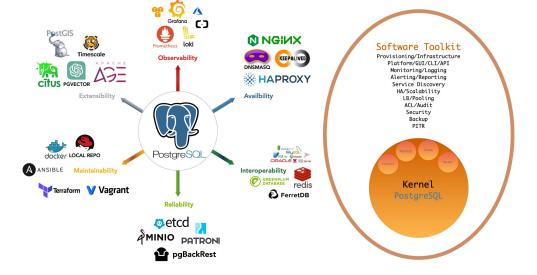
- Battery-Included PostgreSQL Distribution, with PostGIS, TimescaleDB, Citus, PGVector, etc...
- Incredible observability powered by Prometheus & Grafana stack.
- Self-healing HA PGSQL cluster, powered by patroni, haproxy, etcd.
- Auto-Configured PITR, powered by pgBackRest and optional MinIO repo.
- Declarative API, Database-as-Code implemented with Ansible playbooks.
- Versatile Use-cases, Run Docker Apps, Run demos, Visualize data with ECharts.
- Handy Tools, provision laaS with Terraform, and try with local Vagrant sandbox.
- Run Redis (standalone, sentinel, cluster), MinIO, Etcd, Haproxy, MongoDB(FerretDB) clusters

PLpgSQL 27.4% Shell 27.2%

Jinja 26.1% Python 8.5%

Makefile 4.4% • HCL 2.4%

Other 4.0%



- Battery-Included RDS: Delivers PostgreSQL 12-16 services on EL7-9, spanning kernel to RDS distribution.
- Plentiful Extensions: Bundled with 140+ extensions, time-series, geospatial, full-text-search, vector and more!
- Flexible Architecture: Compose Redis/Etcd/MinIO/Mongo modules, monitoring existing cluster and RDS.
- Stunning Observability: Leveraging the Prometheus/Grafana stack and provides unmatched insights.
- Proven Reliability: Self-healing HA, Automatic Failover, Uninterrupted access, Auto-configured PITR.
- Great Maintainability: Declarative API, GitOps ready, Database/Infra-as-Code and Admin SOP
- Sound Security: Database is safe as long as your hardware & credentials are safe.
- Versatile Application: Docker compose application that using PostgreSQL in one command.
- Open Source & Free: Free & open source under AGPLv3. Built for PostgreSQL with love.



Get Started

```
# Linux x86_64 EL 7/8/9 compatible, with nopass sudo/ssh
bash -c "$(curl -fsSL https://get.pigsty.cc/latest)";
cd ~/pigsty; ./bootstrap; ./configure; ./install.yml;
```



Then you will have a pigsty singleton node ready, with Web Services on port 80 and Postgres on port 5432 .

- Download with Get
- Download with Git
- ▶ Download Directly

Architecture

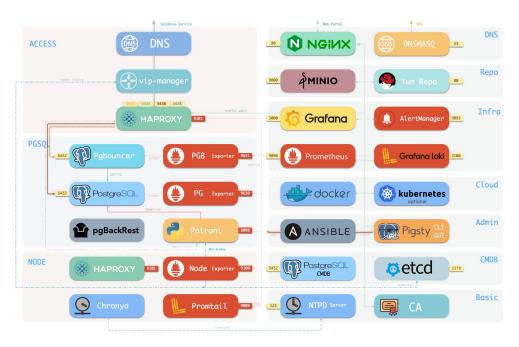
Pigsty uses a **modular** design. There are six default modules available:

- INFRA: Local yum repo, Nginx, DNS, and entire Prometheus & Grafana observability stack.
- NODE: Init node name, repo, pkg, NTP, ssh, admin, tune, expose services, collect logs & metrics.
- ETCD: Init etcd cluster for HA Postgres DCS or Kubernetes, used as distributed config store.
- PGSQL: Autonomous self-healing PostgreSQL cluster powered by Patroni,
 Pgbouncer, PgBackrest & HAProxy
- REDIS: Deploy Redis servers in standalone master-replica, sentinel, and native cluster mode, optional.

• MINIO: S3-compatible object storage service used as an optional central backup server for PGSQL.

You can compose them freely in a declarative manner. If you want host monitoring, INFRA & NODE will suffice. ETCD and PGSQL are used for HA PG clusters, install them on multiple nodes will automatically form a HA cluster. You can also reuse pigsty infra and develop your own modules, KAFKA, MYSQL, GPSQL, and more will come.

The default <code>install.yml</code> playbook in <code>Get Started</code> will install <code>INFRA</code>, <code>NODE</code>, <code>ETCD & PGSQL</code> on the current node. which gives you a battery-included <code>PostgreSQL</code> singleton instance (<code>admin_ip:5432</code>) with everything ready. This node can be used as an admin center & infra provider to manage, deploy & monitor more nodes & clusters.



More Clusters

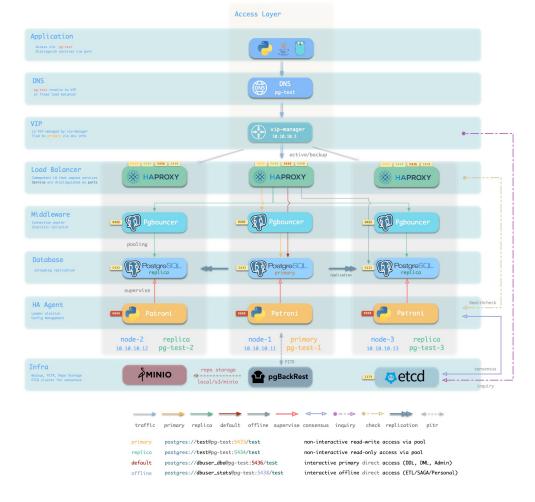
To deploy a 3-node HA Postgres Cluster with streaming replication, define a new cluster on all.children.pg-test of pigsty.yml:

```
pg-test:
  hosts:
    10.10.10.11: { pg_seq: 1, pg_role: primary }
    10.10.10.12: { pg_seq: 2, pg_role: replica }
    10.10.10.13: { pg_seq: 3, pg_role: offline }
    vars: { pg_cluster: pg-test }
```

Then create it with built-in playbooks:

```
bin/pgsql-add pg-test # init pg-test cluster
```





You can deploy different kinds of instance roles such as primary, replica, offline, delayed, sync standby, and different kinds of clusters, such as standby clusters, Citus clusters, and even Redis/MinIO/Etcd clusters.

► Example: Complex Postgres Customize

► Example: Security Enhanced PG Cluster with Delayed Replica

► Example: Citus Distributed Cluster: 5 Nodes

► Example: Redis Cluster/Sentinel/Standalone

► Example: ETCD 3 Node Cluster

► Example: Minio 3 Node Deployment

Check **Configuration** for details.

About

Pigsty (/'pɪg,staɪ/) is the abbreviation of "PostgreSQL In Great STYle."

Docs: https://doc.pigsty.cc/

Wiki: https://github.com/Vonng/pigsty/wiki

Website: https://pigsty.cc/en/ | https://pigsty.cc/zh/

WeChat: Search pigsty-cc to join the WeChat group.

Telegram: https://t.me/joinchat/gV9zfZraNPM3YjFh

Discord: https://discord.gg/6nA2fDXt

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Sponsor: Backers

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