YugaByte

The Transactional Database for Globally Distributed Apps on Pivotal Container Service

WHAT IS YUGABYTE DB?

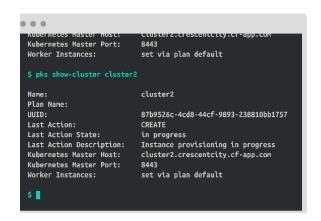## SQL and NoSQL in a Single Open Source Database

OPPORTUNITY IS EVERYWHERE

Companies today are under constant pressure to deliver applications that can support users across the globe. At the same time they need to ensure high performance, transactional consistency, and availability 24/7.

Why deploy multiple caching, SQL and NoSQL databases to satisfy these requirements? These architectures increase costs, complicate operations and make it challenging for developers to deliver new features.

YugaByte DB is the database that helps organizations who have adopted PKS deliver globally distributed applications. At the same time YugaByte DB helps them minimize the number of databases or nodes required to meet their SLAs.

WHY YUGABYTE DB?

- **Reduce Costs**: As demand increases, so do infrastructure and software licensing costs when an app depends on multiple database vendors.

- **Simplify Operations**: When YugaByte DB is deployed on PKS for both SQL and NoSQL use cases, admnistrators get more streamlined operations and more predictable CAPEX & OPEX.

- **Deliver Projects Faster**: YugaByte DB is a multi-model, multi-API, multi-cloud database with a common underlying storage engine. This means engineers can focus on developing features instead of data access.

- **Avoid Cloud Lock-In**: If your core business is in competition with your cloud provider, isn't it time to diversify to PKS?

```
Kubernetes Master Host:      cluster2.crescentcity.cf-app.com
Kubernetes Master Port:      8443
Worker Instances:            set via plan default

$ pks show-cluster cluster2

Name:                        cluster2
Plan Name:
UUID:                        87b9526c-4cd8-44cf-9893-238810bb1757
Last Action:                 CREATE
Last Action State:           in progress
Last Action Description:     Instance provisioning in progress
Kubernetes Master Host:      cluster2.crescentcity.cf-app.com
Kubernetes Master Port:      8443
Worker Instances:            set via plan default

$
```
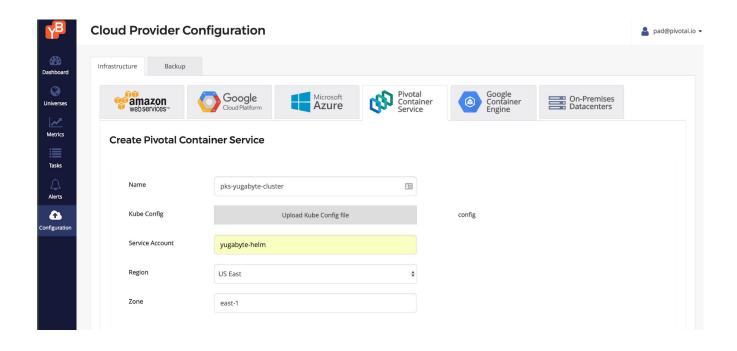
HOW YUGABYTE DB HELPS PKS ADMINSTRATORS

YugaByte DB accelerates and simplifies the delivery of globablly distributed applications.

- **High Performance**: Over 90% better performance than Cassandra when handling over 10 Million keys. The denser the data sets, the better YugaByte DB performs vs other databases.

- **Transactional**: Support for distributed ACID transactions across PKS nodes, containers and availability zones.

- **Planet-Scale**: Automated scale-out and rebalancing across PKS availability zones without downtime or performance bottlenecks.

- **Development Agility**: Support for Cassandra, Redis and PostgreSQL wire compatible APIs to accelerate development.

- **Cloud Native**: Designed from the ground up for the cloud and containers. Runs on Pivotal, AWS, Google Cloud, Azure, Docker and private datacenters to support any hybrid deployment.

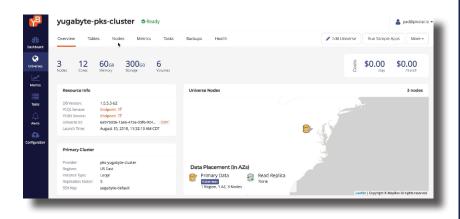- **Open Source**: Transparent and extensible, Apache 2.0 licensed.

YUGABYTE DB ENTERPRISE EDITION

Production support for YugaByte DB on PKS including:

· ACID transactions

· Low latency & high throughput

· Global data distribution

· Multi-cloud orchestration

· Read replicas

· Distributed backup and restore

· Tiered storage for hot and cold data

· Encryption on the wire and at rest

ABOUT YUGABYTE

YugaByte is the company behind the open source YugaByte DB project. YugaByte DB is a cloud native, transactional, high-performance database for planet-scale cloud applications. Founded in 2016 by former Facebook engineers and other database experts, YugaByte is backed by Lightspeed Venture Partners and Dell Technologies Capital.

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