



OPENWORKS

Using Terraform and HCL to Bring IaC to SkySQL Cloud Databases

Will begin shortly.



OPENWORKS

BE UNSTOPPABLE



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Using Terraform and HCL to Bring IaC to SkySQL Cloud Databases

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Cloud Ops Challenges

**Manual
Infrastructure
Provisioning**

**Change &
Version
Control**

**Environment
Configuration
Drift/Mismatch**

**Volume &
Variety of
Infrastructure**

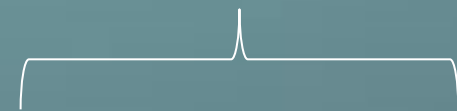
Long Ticket -> Resolve Cycles

... and then Multi-Cloud

Traditional
Datacenter



Dedicated
Infrastructure



Ticket-based, Static



Modern
Datacenter



Private
Cloud



AWS



Azure



Google Cloud



Self-Service, Dynamic

Now imagine trying to:

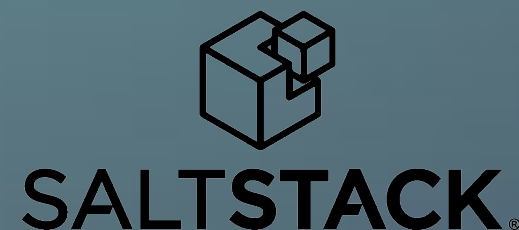
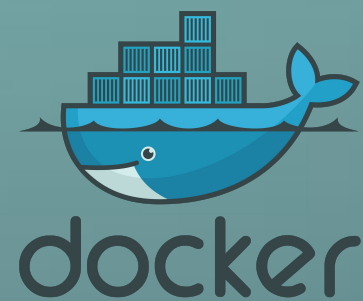
- Streamline Builds
- Improve Tests
- Version Artifacts/Images
- Validate Current State
- Automate Release Pipelines
- Feature Flag Deployments
- Locate Root Error Causes



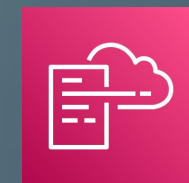
So, Infrastructure as Code

Multi-Cloud

Single-Cloud



AWS



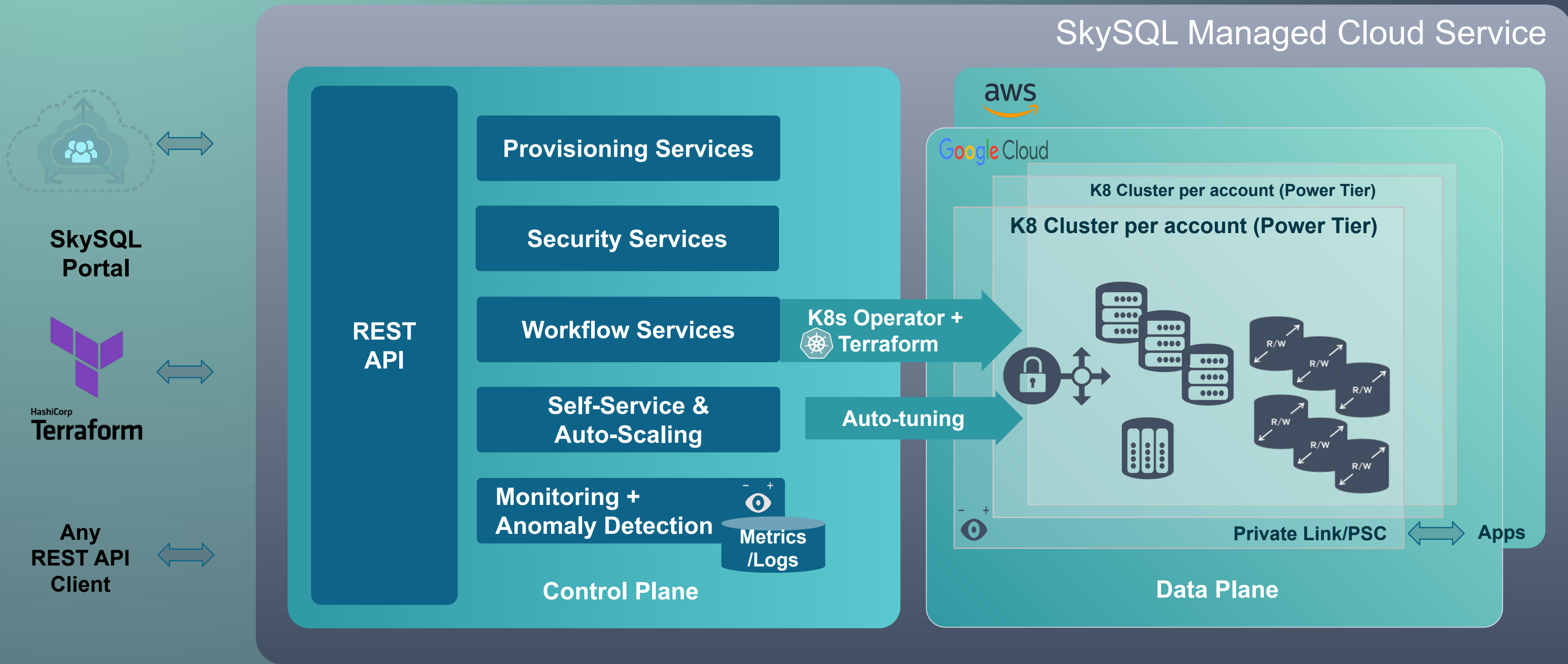
Azure



Google Cloud



REST API: IaC Foundation



Terraform Resources

skysql_allow_list

skysql_autonomous

skysql_service

```
# Create a service
resource "skysql_service" "default" {
  project_id = data.skysql_projects.default.projects[0].id
  service_type = "transactional"
  topology = "es-single"
  cloud_provider = "aws"
  region = "us-east-1"
  name = "myservice"
  architecture = "amd64"
  nodes = 1
  size = "sky-2x8"
  storage = 100
  ssl_enabled = true
  version = data.skysql_versions.default.versions[0].name
  volume_type = "gp2"
}

# The service create is an asynchronous operation. # if you want to wait for the service
to be created set wait_for_creation to true
wait_for_creation = true
```


SkySQL Terraform Demo



NEXT STEPS

- [SkySQL Terraform Provider](#)
- [Terraform Docs](#)
- [SkySQL Documentation TF QuickStart](#)
- [Public Github Example Repo](#)
- [SkySQL API Endpoint](#)
- [Swagger Docs](#)
- [SkySQL API Ref Documentation](#)
- [SkySQL API Quickstart](#)

Sign up for \$500 credit on SkySQL today!

RELATED SESSIONS AT OPENWORKS

- **1:30pm – 2:00pm SkySQL – The Open, Unified and Most Productive Cloud Database for Modern Applications**
- **3:45pm – 4:15pm Engineer More, Work Less: DBS' Autonomous Database Journey**
- **12:00pm – 12:30 pm MariaDB Shell: An Upgraded Admin Tool**
- **12:00pm – 1:00 pm Roundtable: Exploring DevOps and Application Development with MariaDB**



THANK YOU



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