



Aenix

COZYETACK

Your own PaaS platform

What is Cozystack?

- CNCF Sandbox - March 4, 2025
- Nex-gen cloud platform fully based on Kubernetes
- Managed Services with full lifecycle management
- Ready infrastructure stack with minimum dependencies
- Platform framework which can be simple extended with new apps

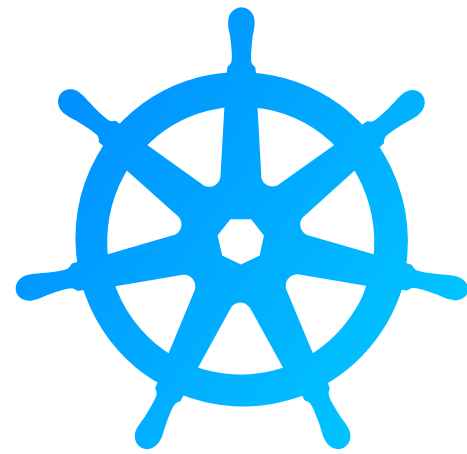
PaaS



IaaS



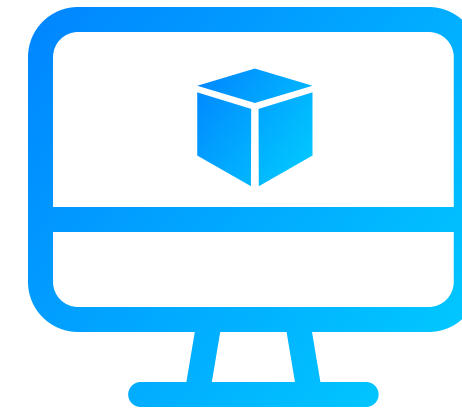
Multiple services available with just a click



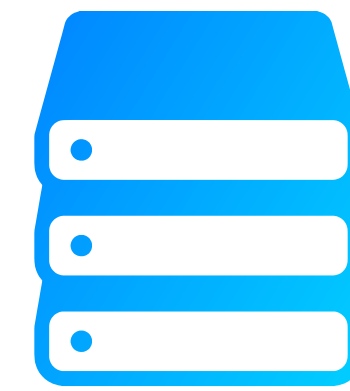
Managed Kubernetes



Managed Databases



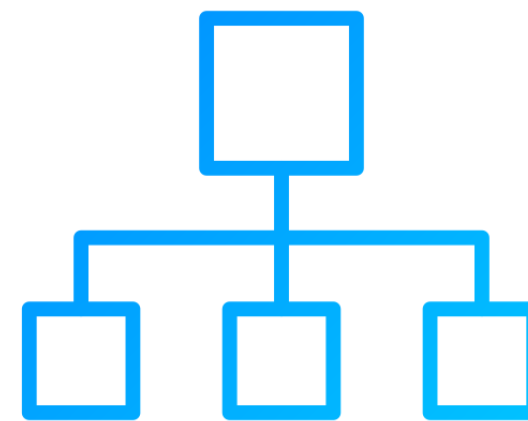
Virtual Machines



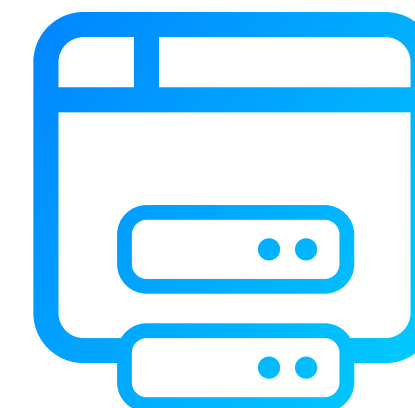
Persistent Volumes



S3 Storage



Load balancers

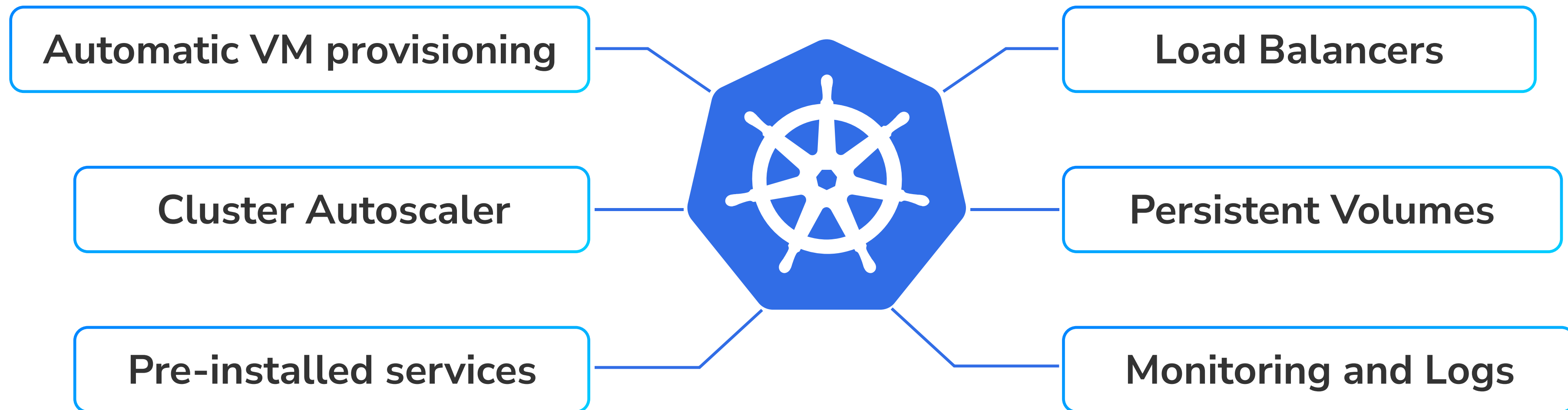


Monitoring and Alerts

Truly managed Kubernetes

Managing Kubernetes clusters on-premises often is challenging.

We offer a simple, full-featured Kubernetes solution that just works, like in every cloud, but on your bare metal servers.



Why Bare Metal Matters

- Bare metal is back — **faster, cheaper, sovereign**
- **Predictable costs**, no hidden cloud fees
- **Your data, your rules** — secure and air-gapped
- **Perfect for AI**, regulated, and edge workloads

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But rebuilding a cloud-like experience on bare metal... is hard

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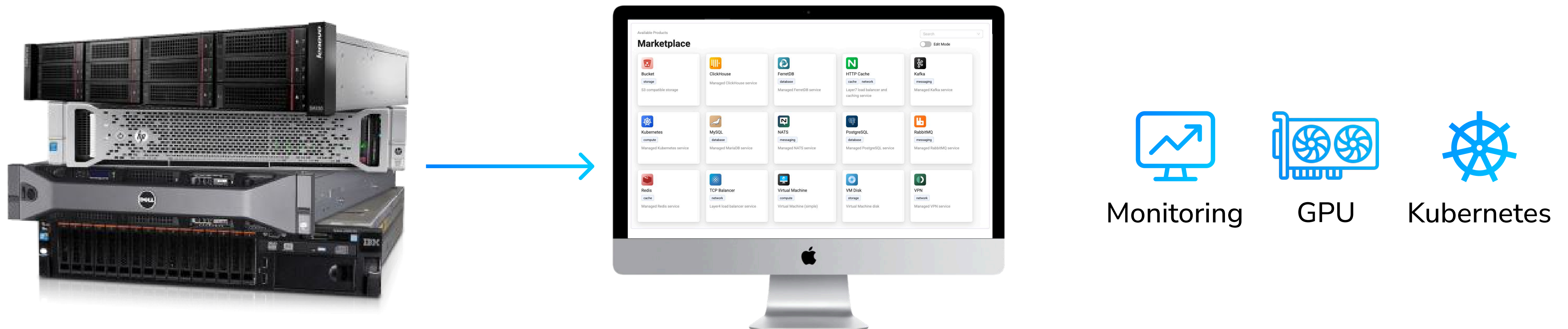
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But rebuilding a cloud-like experience on bare metal... is hard

Not with cozy!

Introduction

With Cozystack, you can transform your bunch of servers into an intelligent system with a simple REST API for spawning Kubernetes clusters, Database-as-a-Service, virtual machines, load balancers, HTTP caching services, and other services with ease.



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Layer 4

Managed Kubernetes

Databases-as-a-Service



Kubernetes API

Layer 3

Operators

Cluster API


Monitoring



Flux CD

Layer 2

Storage
LINUXSTOR

Networking
 OVN

Virtualization
 KubeVirt



Talos Linux

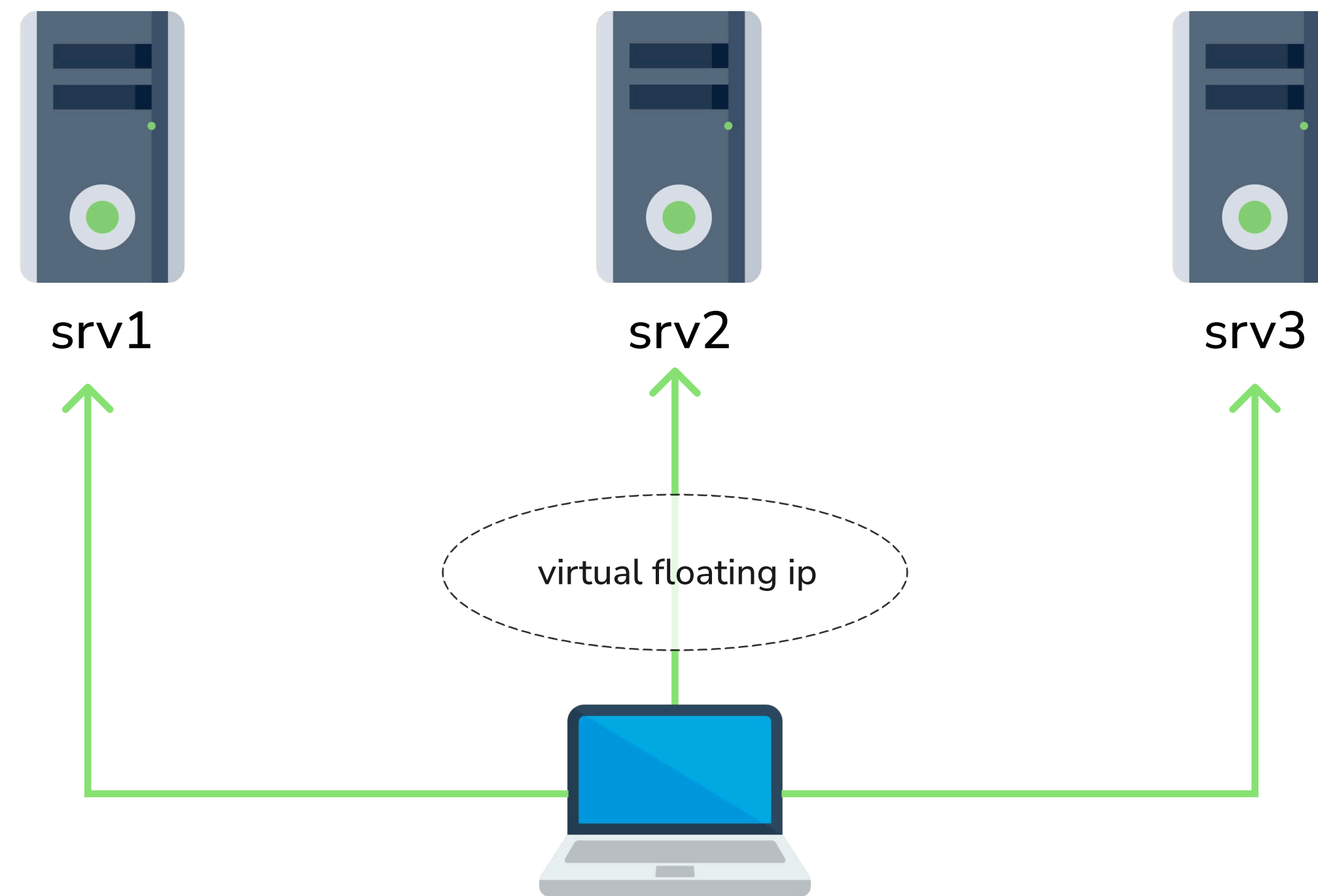
Layer 1

OS and Hardware



Simple installation

We significantly simplified the cluster setup, turning the installation process into a simple and enjoyable experience.



MANAGEMENT

(DHCP, matchbox, talos-bootstrap)

- Marketplace
- Marketplace
- laaS
- Virtual Machines
- Kubernetes
- VM Instances
- VM Disks
- Buckets
- PaaS
- ClickHouse
- FerretDB
- Kafka
- MySQL
- NATS
- PostgreSQL
- RabbitMQ
- Redis
- NaaS
- HTTP Cache
- TCP Balancer
- VPN
- Administration
- Info

Cluster: default


Namespace: tenant-kvaps

Available Products

Marketplace

Search


Edit Mode



Bucket


storage

S3 compatible storage



ClickHouse


Managed ClickHouse service



FerretDB

database


Managed FerretDB service



HTTP Cache

cache network


Layer7 load balancer and caching service



Kafka

messaging


Managed Kafka service



Kubernetes

compute


Managed Kubernetes service



MySQL

database


Managed MariaDB service



NATS

messaging


Managed NATS service



PostgreSQL

database


Managed PostgreSQL service



RabbitMQ

messaging


Managed RabbitMQ service



Redis

cache


Managed Redis service



TCP Balancer

network


Layer4 load balancer service



Virtual Machine

compute


Virtual Machine (simple)



VM Disk

storage

Virtual Machine disk



VPN

network

Managed VPN service

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- Info

Cluster: default

Namespace: tenant-kvaps

apps.cozystack.io/v1alpha1/kuberneteses > Create

Create apps.cozystack.io/v1alpha1/kuberneteses

OpenAPI

Manual

metadata ^

name

name

spec ^

storageClass

replicated

version

v1.33

host

host

nodeGroups ^

md0 ^

minReplicas*

0

maxReplicas*

10

instanceType*

u1.medium

ephemeralStorage*

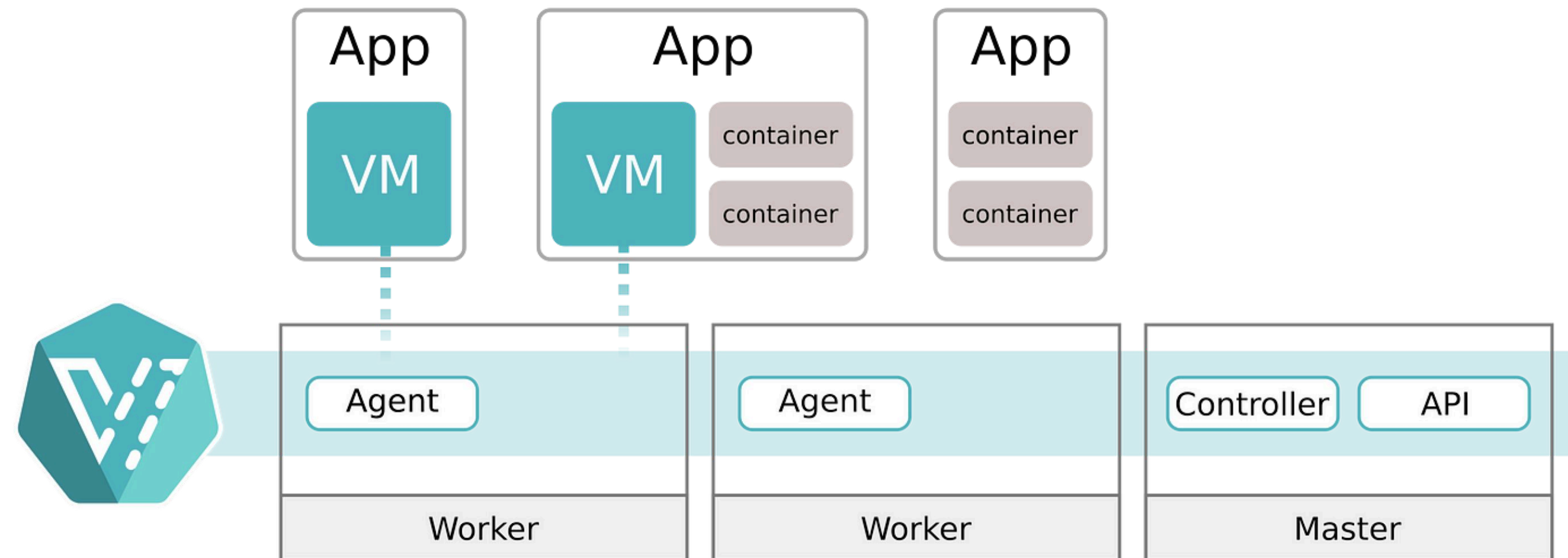
20Gi

roles

```
1  apiVersion: apps.cozystack.io/v1alpha1
2  kind: Kubernetes
3  metadata:
4    namespace: tenant-kvaps
5  spec:
6    addons:
7      certManager:
8        enabled: false
9      gatewayAPI:
10       enabled: false
11      velero:
12        enabled: false
13      fluxcd:
14        enabled: false
15      gpuOperator:
16        enabled: false
17      ingressNginx:
18        enabled: false
19        exposeMethod: Proxied
20      monitoringAgents:
21        enabled: false
22    controlPlane:
23      konnectivity:
24        server:
25          resourcesPreset: micro
26      replicas: 2
27      scheduler:
28        resourcesPreset: micro
29      apiServer:
30        resourcesPreset: medium
31      controllerManager:
32        resourcesPreset: micro
33    host: ""
34    nodeGroups:
35      md0:
36        instanceType: u1.medium
37        maxReplicas: 10
38        minReplicas: 0
39        roles:
40          - ingress-nginx
41        ephemeralStorage: 20Gi
```

Robust virtualization system

- Ability to run VMs as pods
- Same ecosystem for containers and VMs
- GPU support for running AI workloads
- Working Kubernetes services and network policies



Databases-as-a-Service

Powered by operator approach.

Highly-available by default.

With ultimate bare metal performance

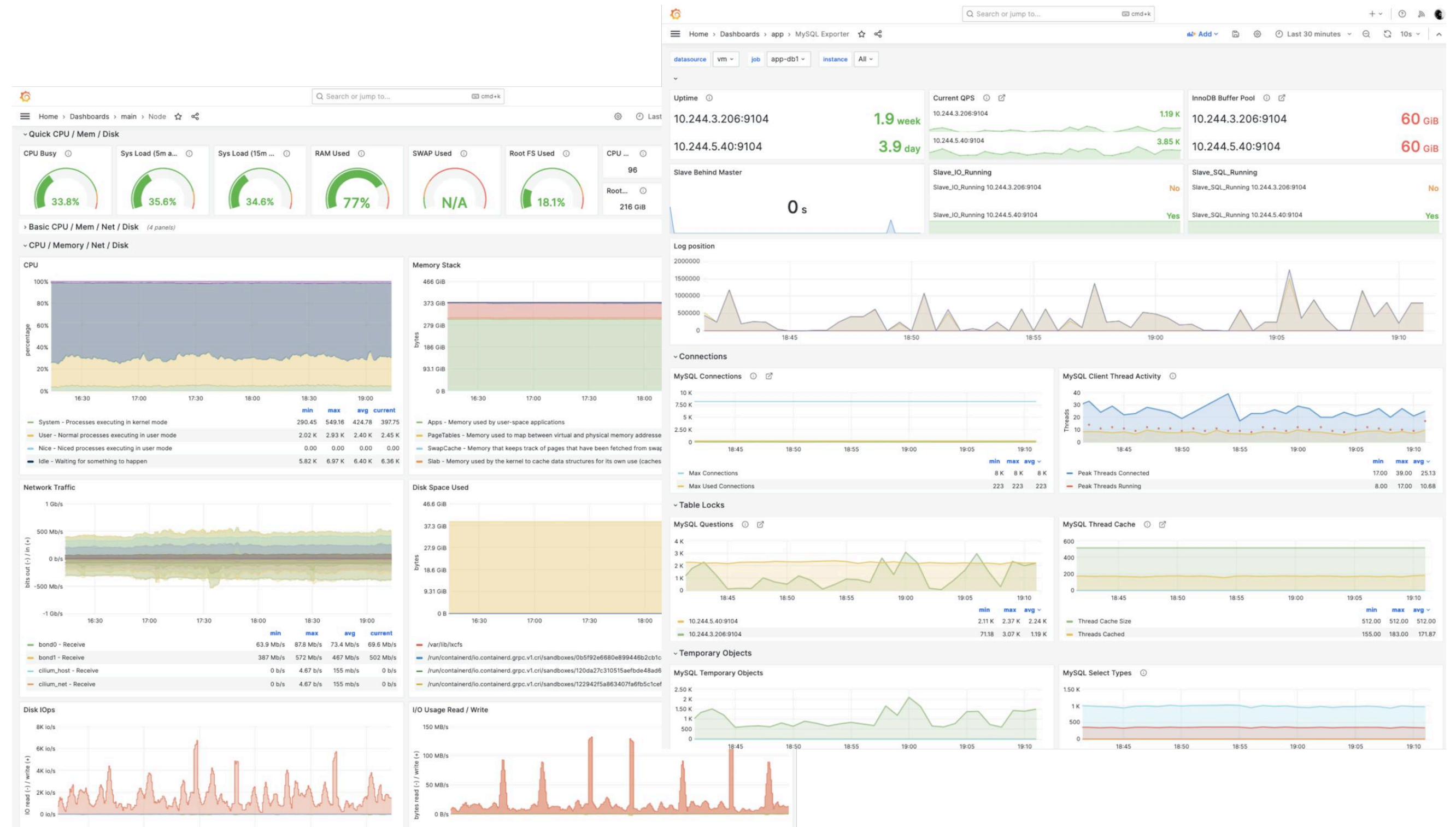
You can simple:

- Create databases
- Manage users and access rights
- Configure automatic backups
- Monitor through the dashboards
- Configure and receive alerts



Ready monitoring stack

- Pre-configured Grafana dashboards
- Enabled automatically for every deployed service
- Integrated IRM (Incident Response Management) system
- Collecting logs and events



Get a ready cluster out-of-nothing in just 30 minutes:



Simple integration

Cozystack offers a robust, ready-to-use backend for building both public and private clouds, and seamless integration with your infrastructure.



Easy to extend

Each package in the platform consists of a set of YAML files. Therefore, anyone with some familiarity with Kubernetes primitives can modify or expand the platform. Delivery of packages to the system is handled by FluxCD, a well-known and widely used tool in the community.



flux

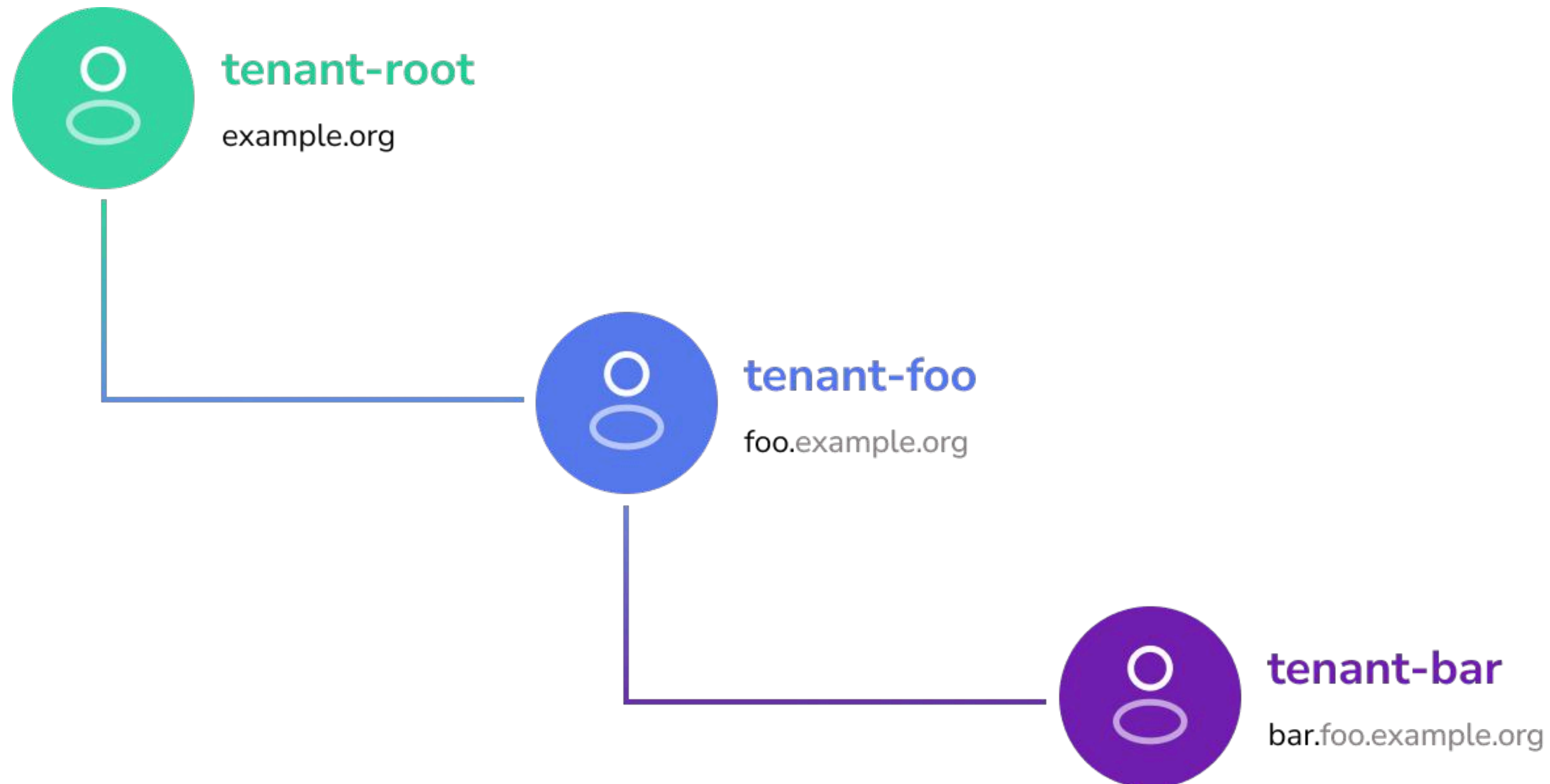


Kubernetes API:

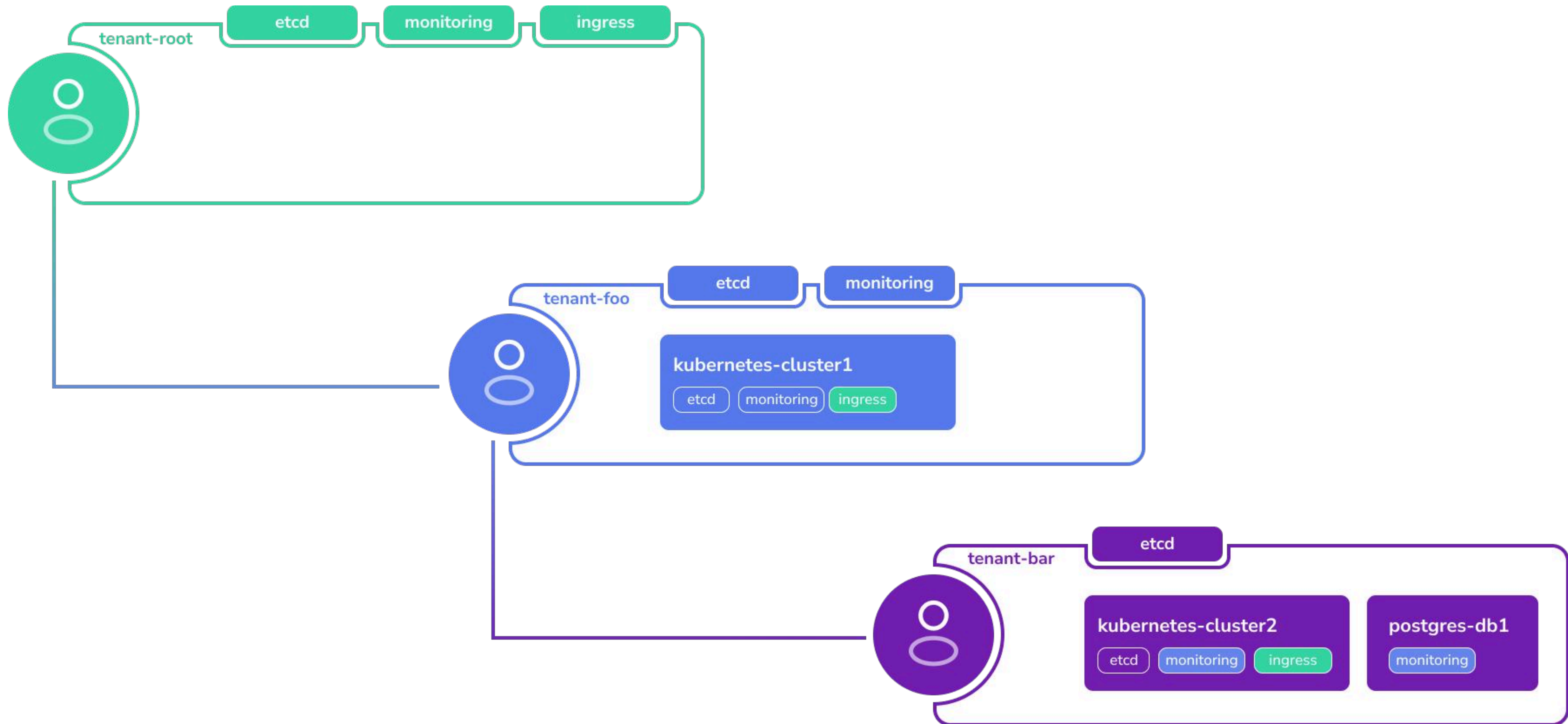
- Bucket
- Tenant
- Postgres
- Kubernetes
- MySQL
- RabbitMQ
- Redis
- VirtualMachine

Cost efficient and secure by design

Our unique tenant model enables efficient allocation of cloud resources for the control plane, ensuring cost-efficiency and the desired level of security

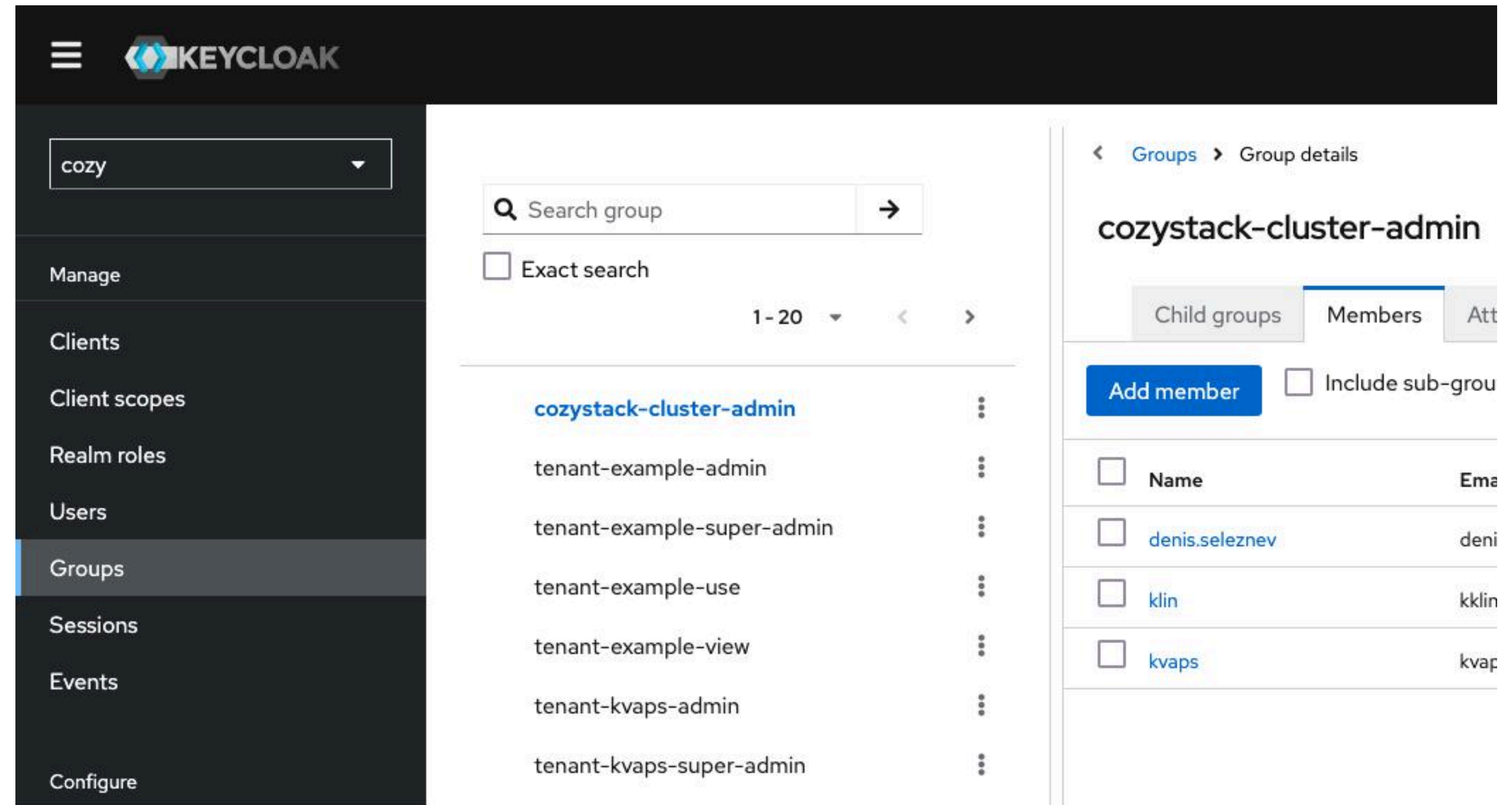
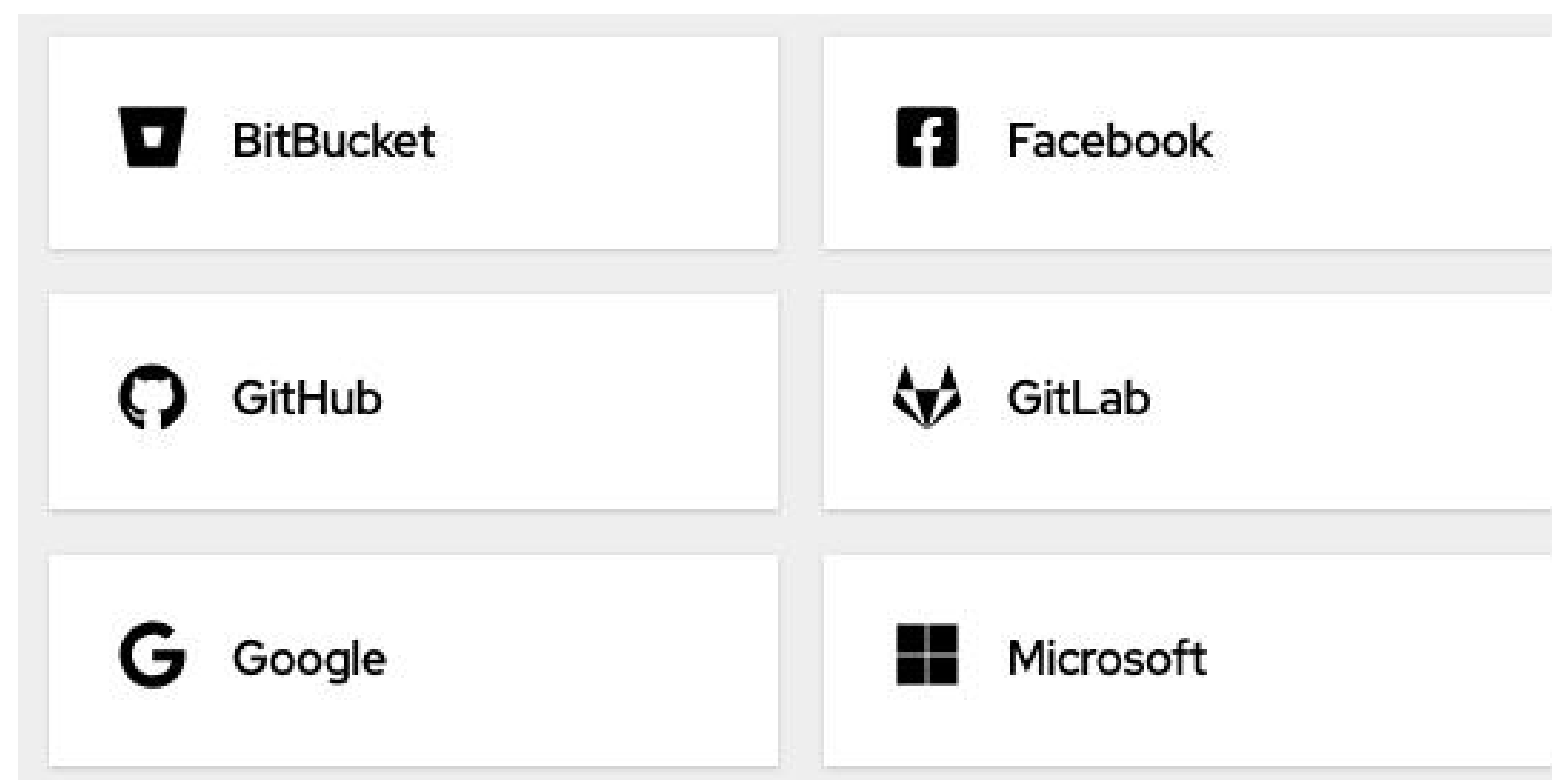


COZYETACK



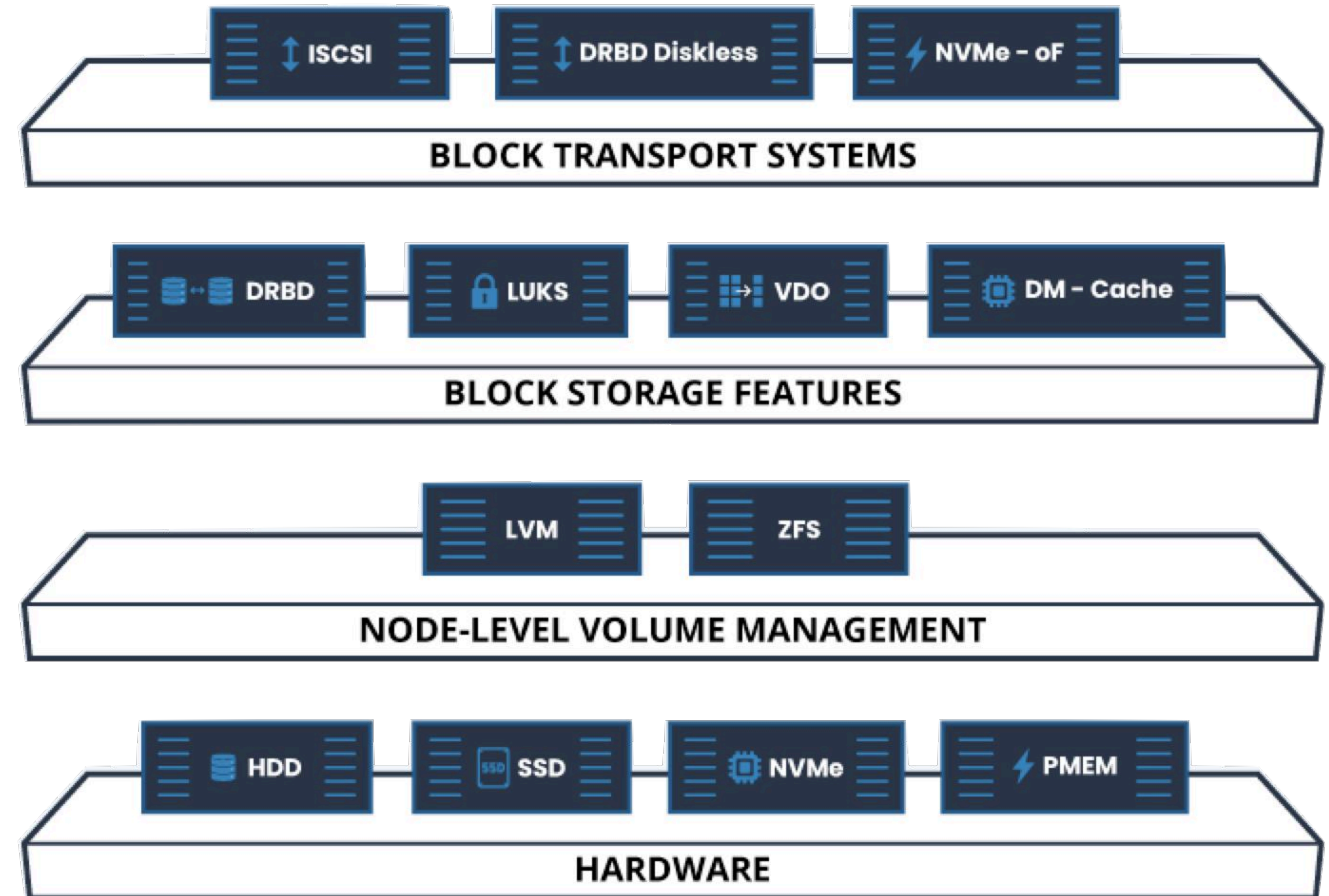
Integrated Identity Management

- Create users and manage access rights
- Assign users to multiple tenants
- Integration with LDAP and Active Directory
- Integration with known OIDC providers:



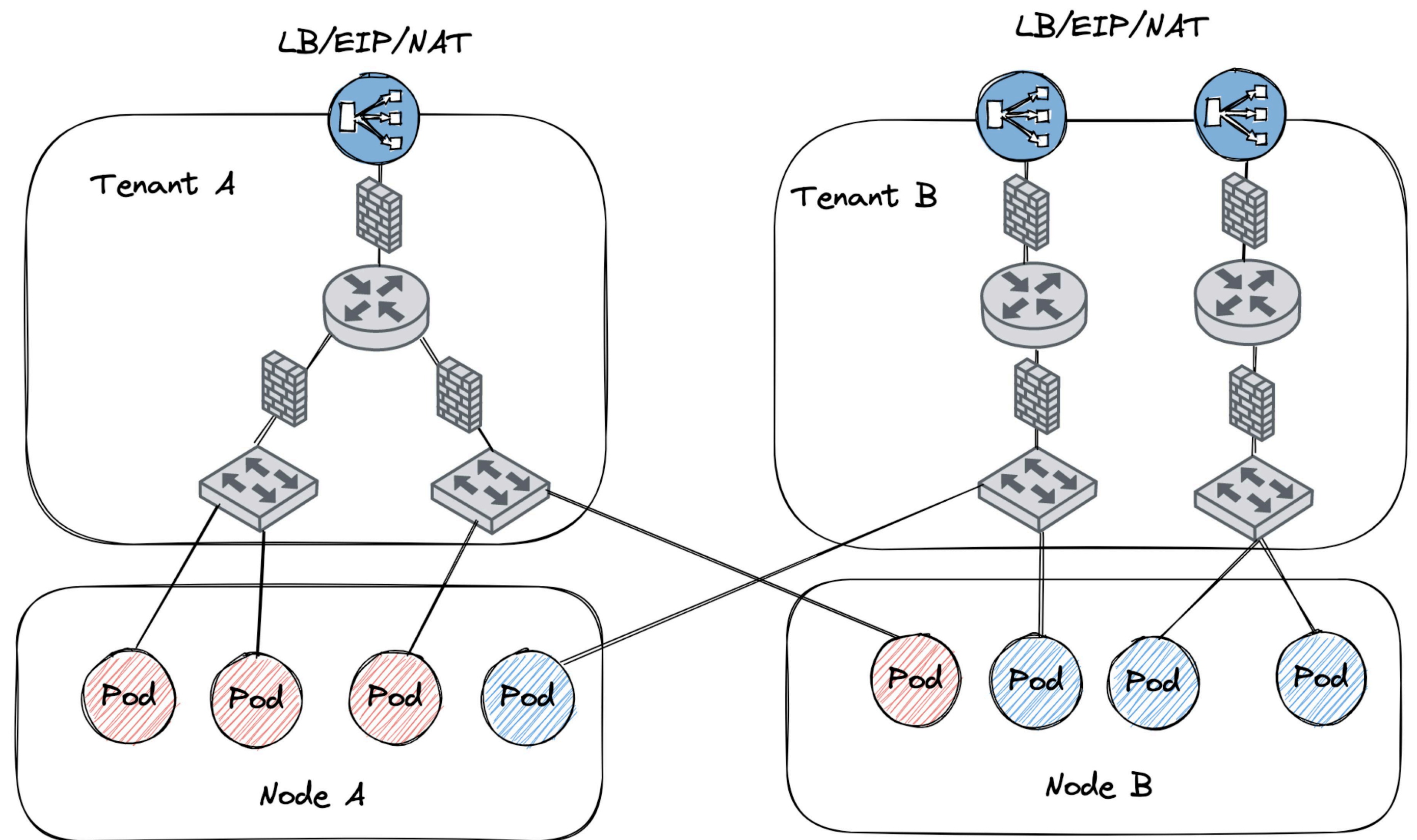
Fast and reliable storage

- Replication operating directly in the kernel
- Simple design
- Time-tested technologies
- Ready-to-use configuration



Modern networking fabric

- Multi-tenancy and VPCs (Virtual Personal Networks)
- Simple integration with your infrastructure
- Network offloading with eBPF and SR-IOV



COZYETACK



github.com/cozystack/cozystack