



Past, Present, and Future






DevOps: The Company Killer

- Everyone wants global deployments.
- Not everyone should roll their own.
- DevOps is a huge distraction for companies trying to build actual products.

What if Heroku, but also Edge?

- CDNs have been distributing assets globally for years.
- Docker images look and smell like static assets.
- "Dynamic Delivery Network" - **how hard could it be?**

Platform: vCentralized

-  Flexible hosting: Cloud, On-Prem, Colo.
-  "Push to Deploy", logging, billing, etc.
-  **Sign on thousands of hosting providers.**
-  On second thought, what if it's a marketplace...
-  ... *Yeah, that's the ticket.*

Marketplace: vDEX

- Trustless (pros and cons).
- Transparent pricing (with history).
- Simple payments (in principle).
- **UNSTOPPABLE.**

“

The revolution will not be centralized!

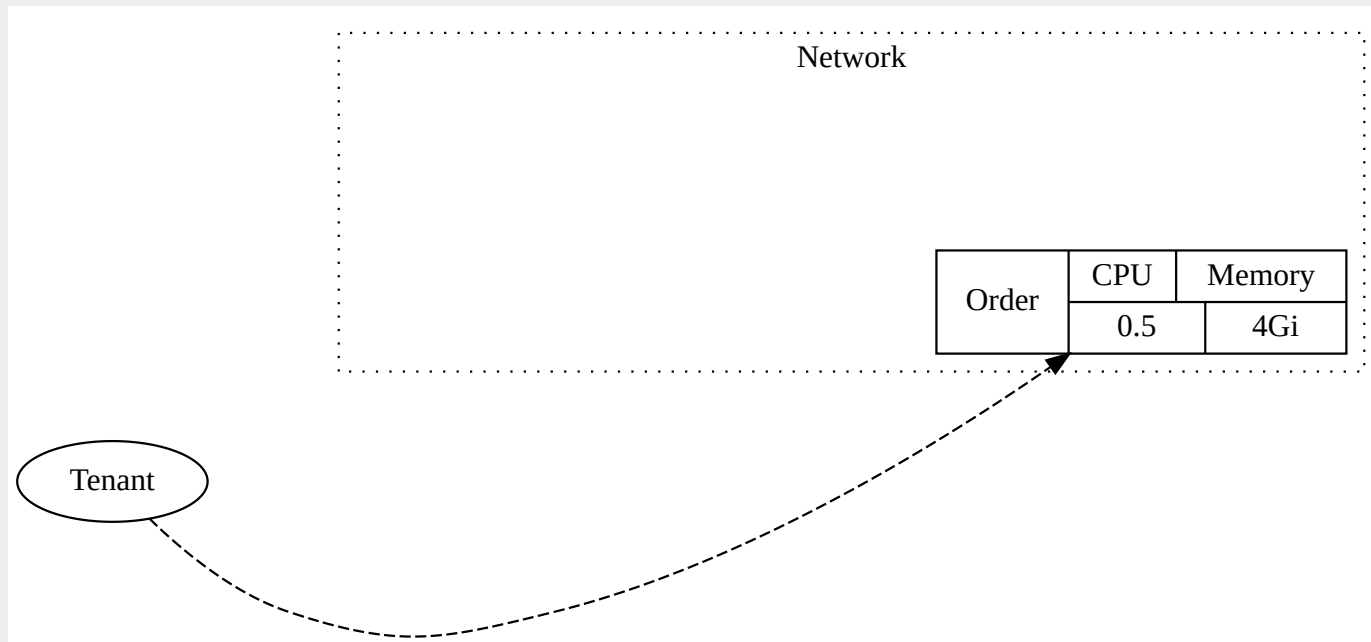
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The Akash Cloud

- **The Network:** marketplace, payments.
- **The Platform:** hosting, management.

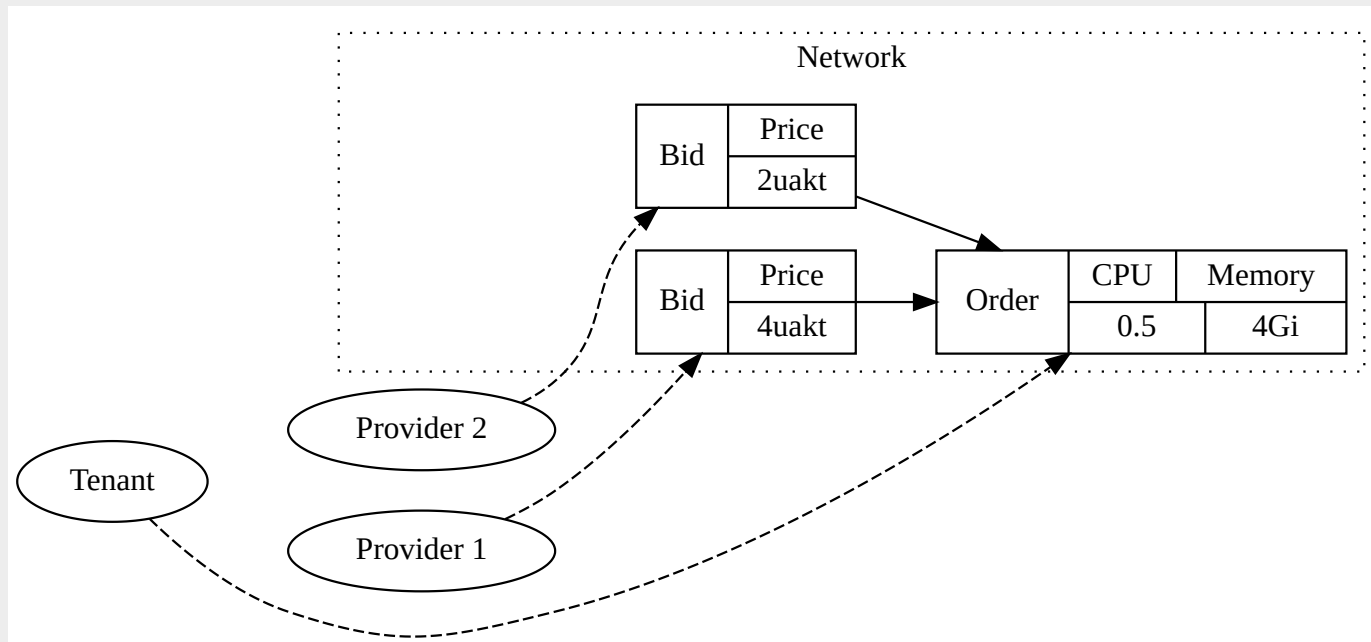
The Network

Resource Acquisition



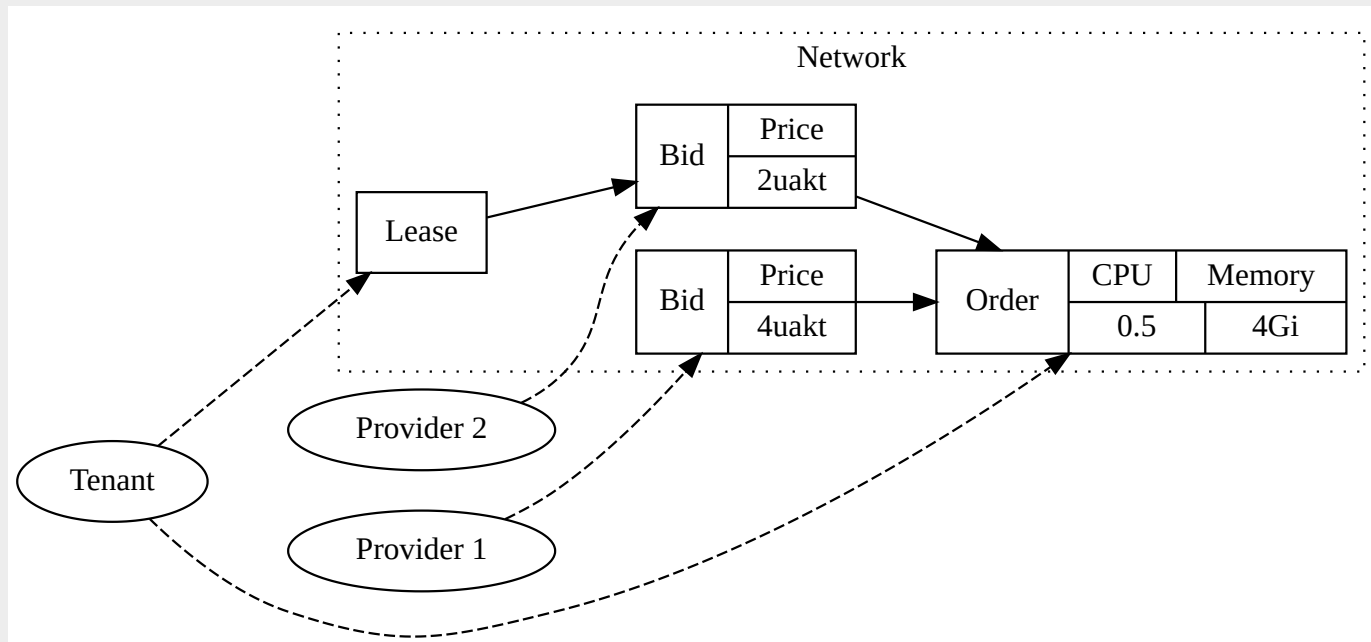
The Network

Resource Acquisition



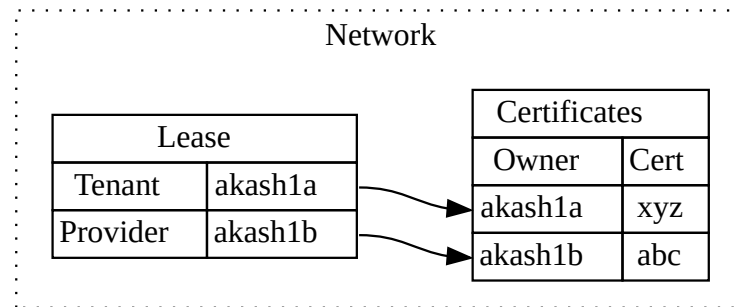
The Network

Resource Acquisition



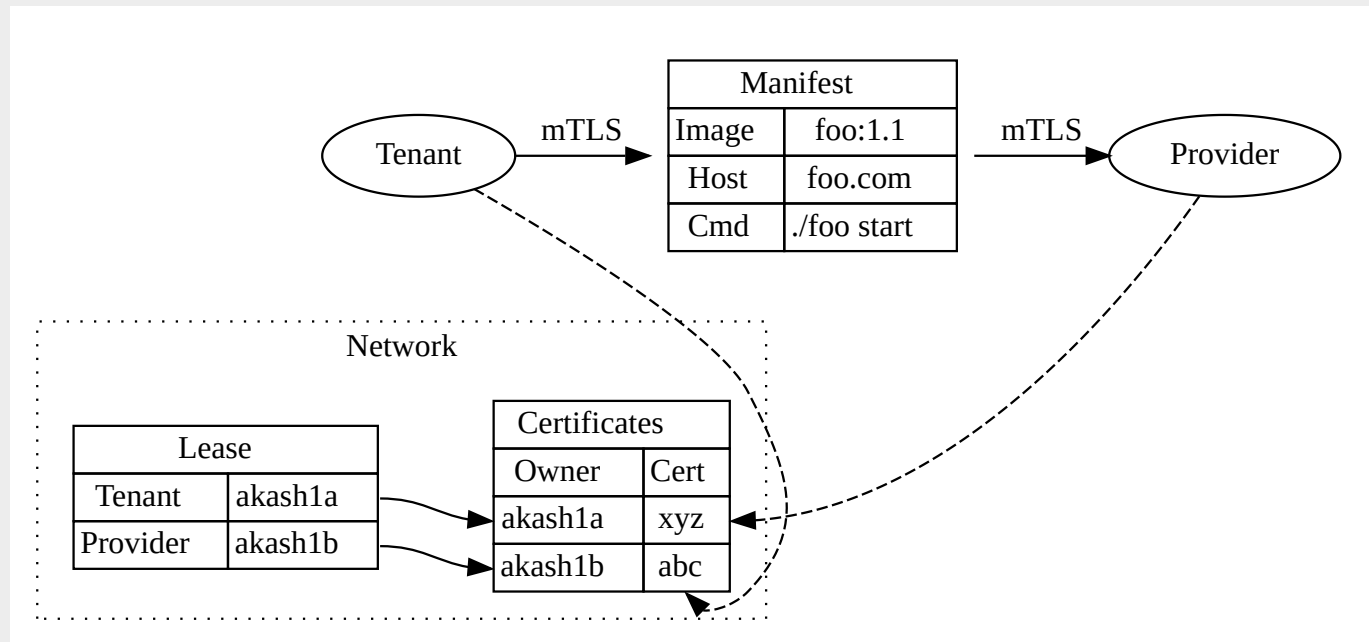
The Platform

Workload Distribution



The Platform

Workload Distribution



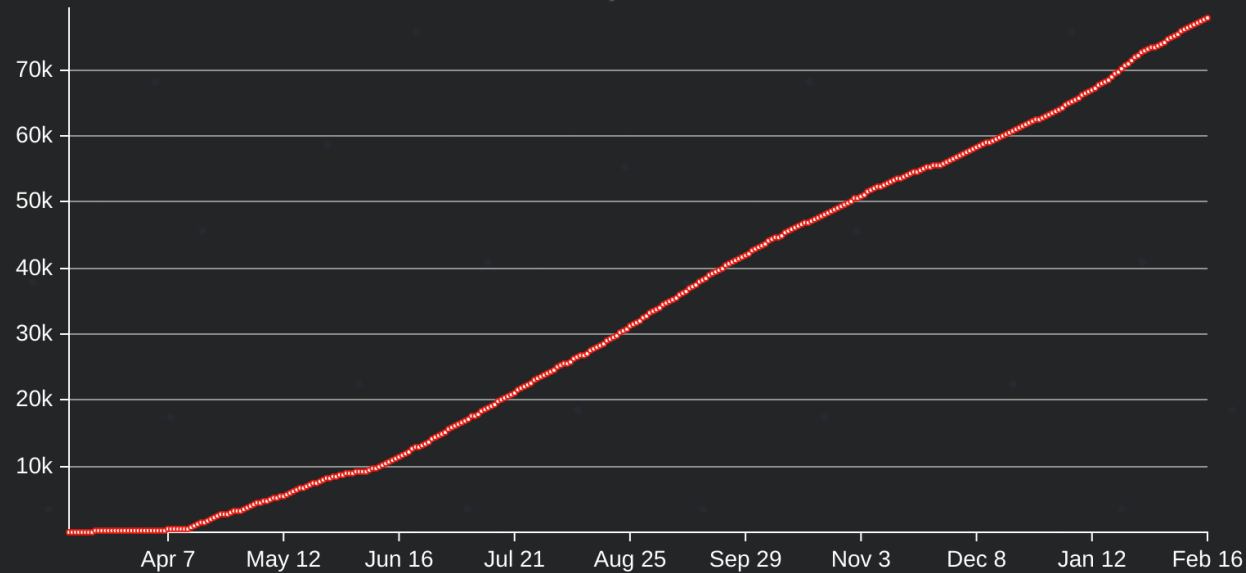
Ten Months In

All-time lease count

77,806 ▲ 0.25% +195

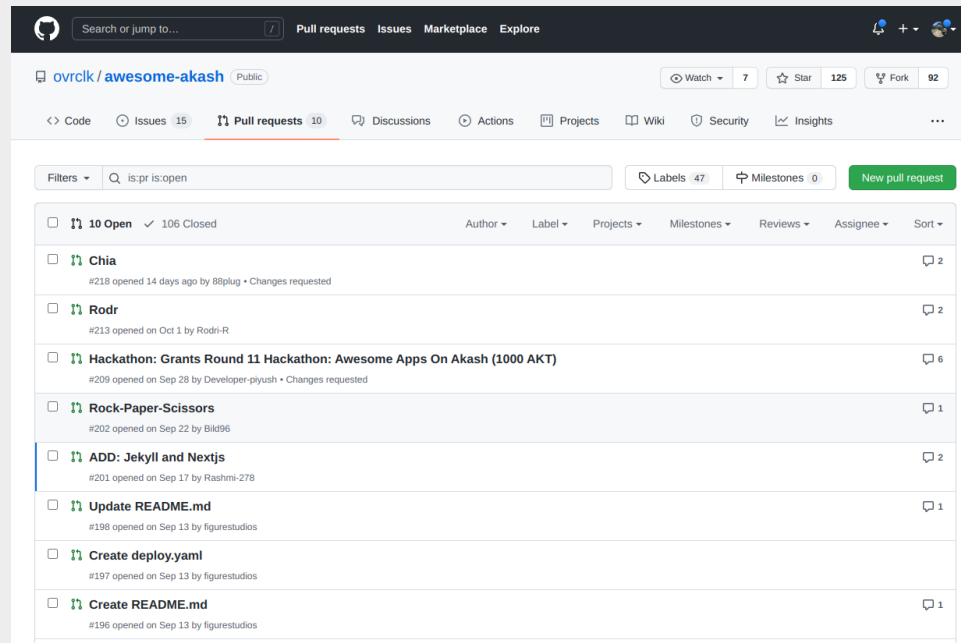
7D 1M ALL

akashlytics.com



Awesome-Akash

Community-sourced deployment examples



Awesome-Akash

- 80+ applications
- Databases, games, blogging platforms, crypto wallets, DEX frontends, etc...
- Ready-to-deploy configurations

Mining: pkt.cash

- Akash resources can have a broad spectrum of uptime duration, quality.
- The lower end of this spectrum represents a large amount of resources available to miners.
- Also applicable to other state-less applications (CI, machine learning, finding E.T.)

Cosmos-Omnibus

Generic SDK node hosting infrastructure.

- Publish docker images.
- Multiple bootstrap options:
 - snapshot
 - state-sync
- **New: publish daily snapshots.**

Cosmos-Omnibus

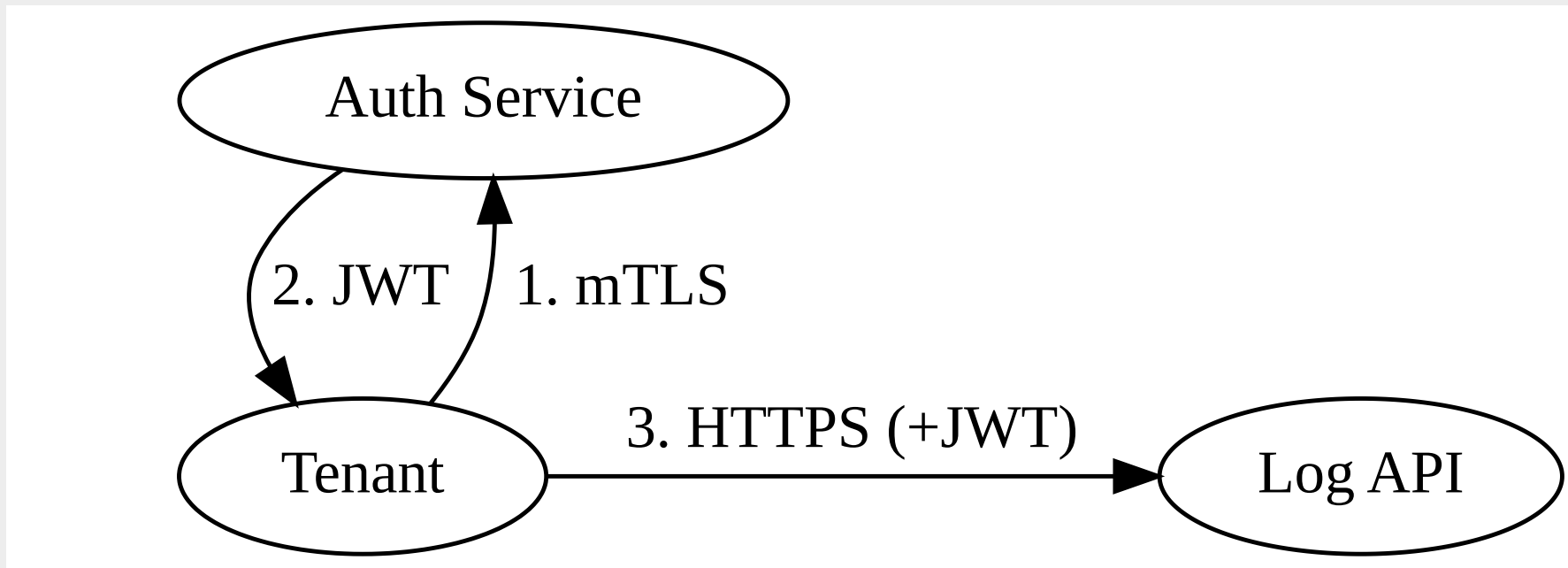
Project	Version	Image	
akash	v0.12.1	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-akash-v0.12.1	Example
bitcanna	v1.2	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-bitcanna-v1.2	Example
emoney	v1.1.3	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-emoney-v1.1.3	Example
gaia	v5.0.8	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-gaia-v5.0.8	Example
juno	v1.0.0	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-juno-v1.0.0	Example
kava	v0.15.1	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-kava-v0.15.1	Example
osmosis	v4.2.0	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-osmosis-v4.2.0	Example
persistence	v0.1.3	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-persistence-v0.1.3	Example
regen	v2.0.0	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-regen-v2.0.0	Example
sentinelhub	v0.8.3	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-sentinelhub-v0.8.3	Example
sifchain	betanet-0.9.12	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-sifchain-betanet-0.9.12	Example
stargaze	v1.0.0	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-stargaze-v1.0.0	Example
terra	v0.5.9	ghcr.io/ovrclk/cosmos-omnibus:v0.0.10-terra-v0.5.9	Example

Coming Soon

- Free trials (Authz)
- JWT Authentication
- Cosmos-omnibus: relay fleet
- Cosmos-omnibus: state-sync fleet
- Bootstrap auditor ecosystem
- More resources: IP address, GPU, storage, etc...
- New CLI

JWT Authentication

Bootstrap traditional authentication from on-chain
mTLS certs.



Auditor Ecosystem

“ I only want bids from providers that *chiahaus* says has premium-tier mining performance. ”

- 👍 This has been supported since launch.
- 😞 The Akash team is essentially the only auditor at this time.
- Community grants is funding development of an open-source template.
- Essential for increasing and decentralizing provider supply.

Challenges

- Query performance.
- Reliable event stream.
- Database performance.
- Database size.
- Reliable state-sync.

Questions?

Thanks for your time!

- <https://akash.network>
- <https://github.com/ovrclk/akash>
- <https://github.com/ovrclk/awesome-akash>
- <https://github.com/ovrclk/cosmos-omnibus>