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as
SIP Ingress Controller

Prepared by : Sagar Malam
Chief Innovation Officer

ECOSMOB TECHNOLOGIES PRIVATE LIMITED

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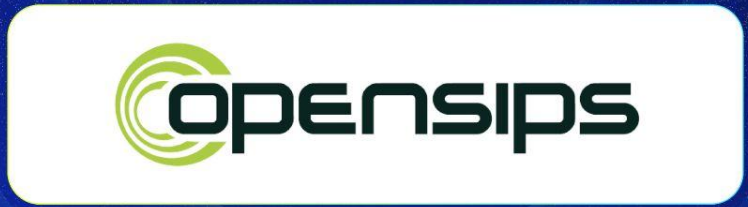
Thank You

OpenSIPS Team and Community



Who **Am I**

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CIO at Ecosmob Technologies Pvt Ltd

VP engineering at Tragofone

VP engineering at LoyaltyXpert

OpenSIPS
Certified professional

11 Years
of experience in designing end to end solutions for carrier grade telcos

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About **Ecosmob**

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Your preferred partner for custom software development and technology outsourcing.

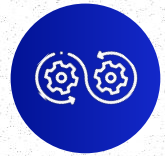
ECOSMOB Technologies:

Web Design and Development

Mobile Application Development

VoIP Development

AI/ML Development



DevOps

Staff Augmentation Services

Quality Assurance

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What is an **Ingress Controller and why ?**

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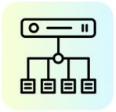
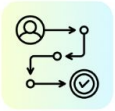
Routing External Traffic

SSL/TLS Termination



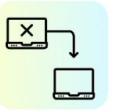
Load Balancing (Service based Load balancing not efficient and flexible)

Authentication and Authorization



Routing based on business/customer rules

Rate Limiting / Tarpit



Failover

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Popular **Ingress Controllers**

Supported Protocols

- L7 - HTTP/HTTPS
- L4 - UDP /TCP

Are they good enough for **SIP applications ?**

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SIP **Ingress Controller**

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- Does everything that HTTPS based Ingress controller does but for SIP traffic

Enables

- DPI of a SIP Packet
- SIP Traffic Forking
- Load Balancing SIP Traffic
- Routes traffic based on
  - Domain
  - Contact
  - IP
  - Codecs
  - Etc

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OpenSIPS **as Ingress Controller**

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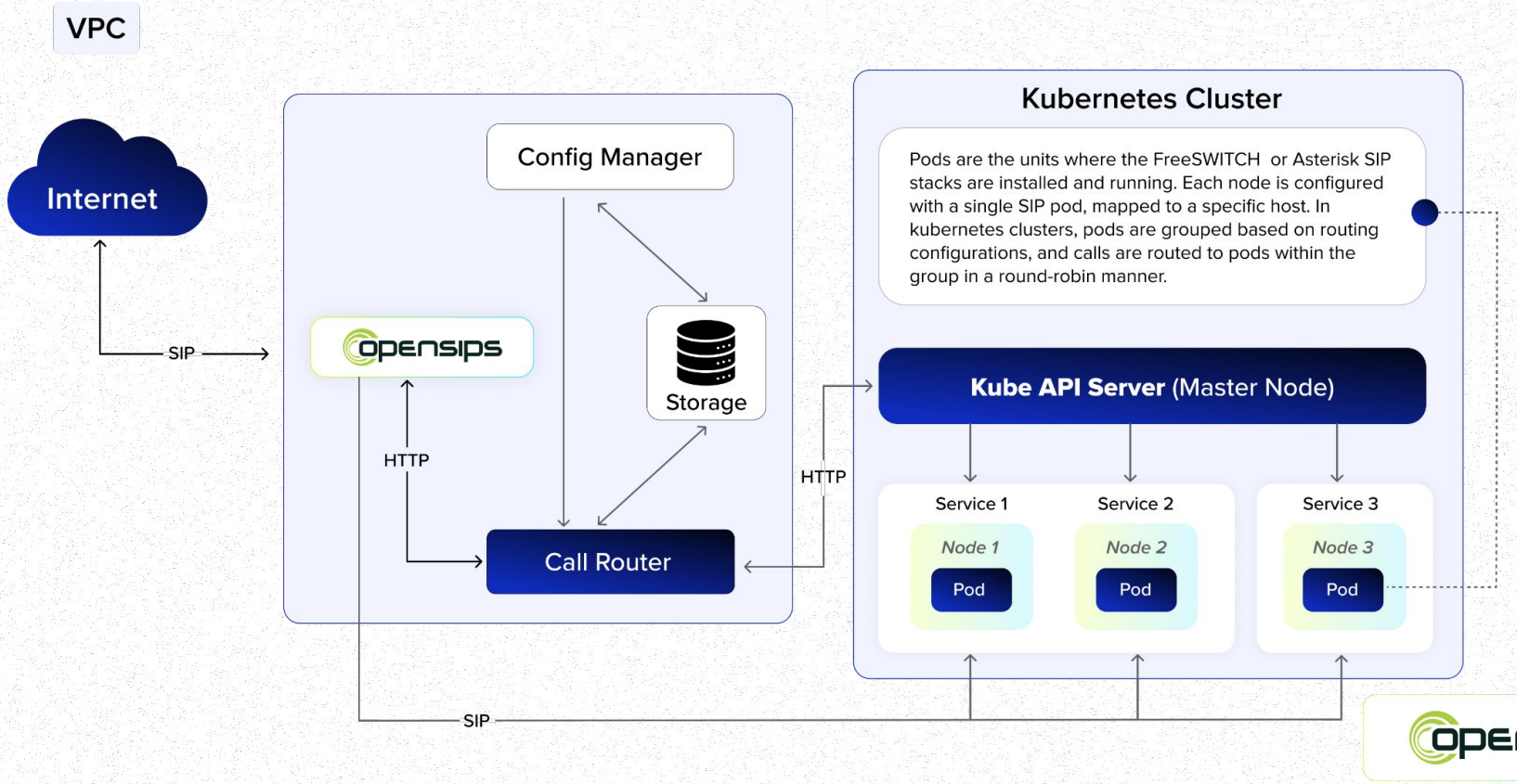

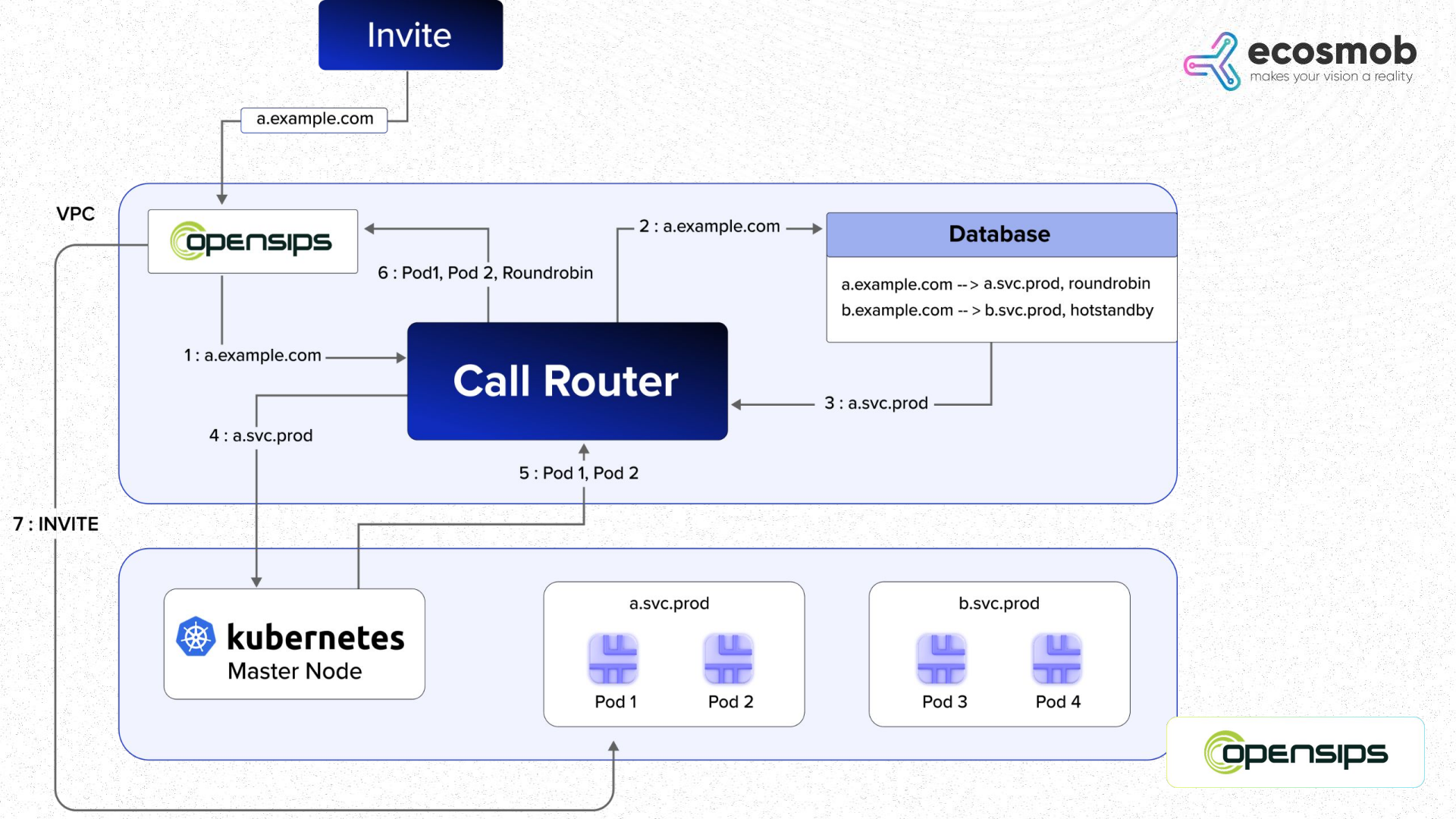
Invite
a.example.com
VPC
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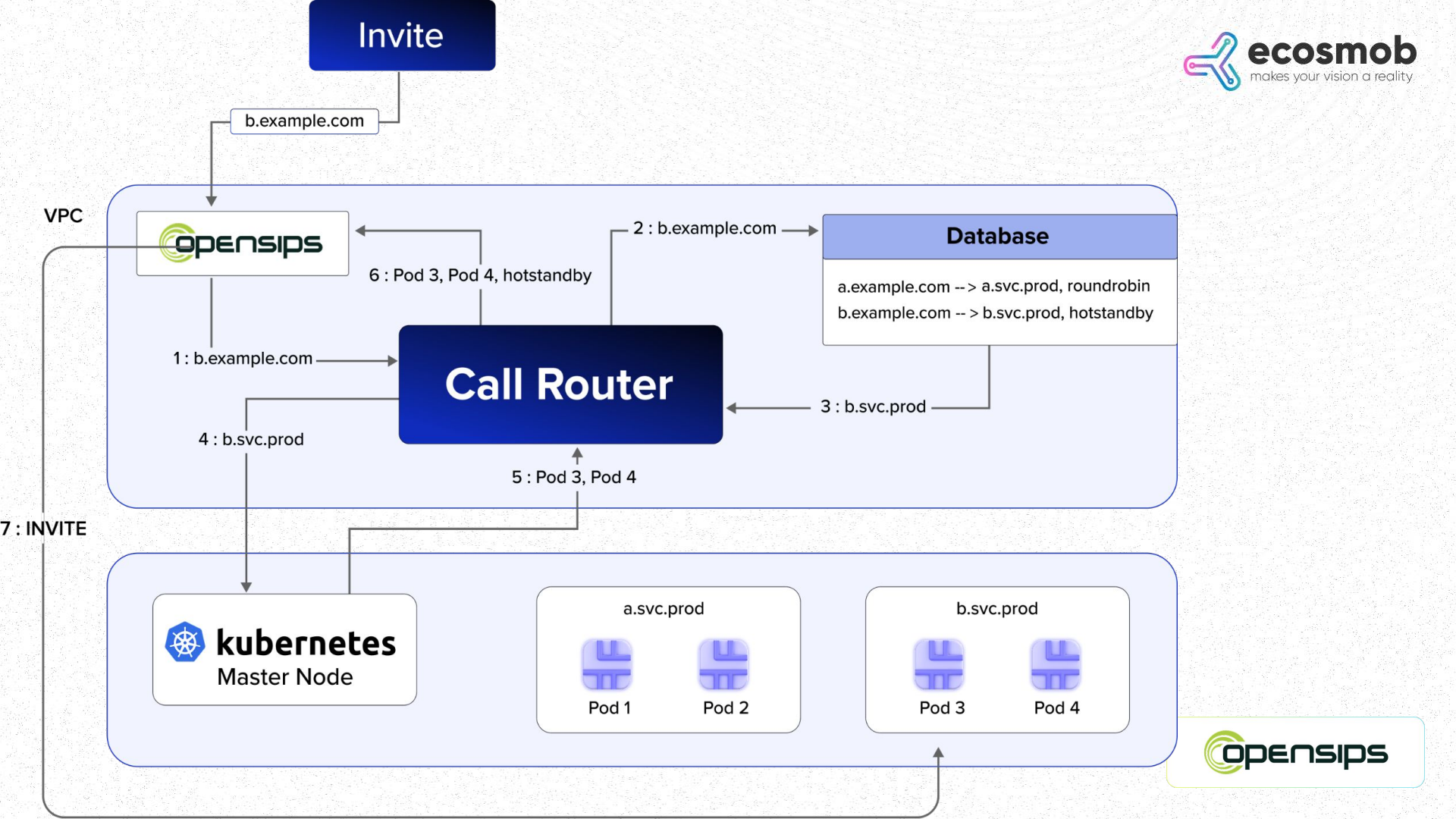
6 : Pod1, Pod 2, Roundrobin
2 : a.example.com
Database
a.example.com --> a.svc.prod, roundrobin
b.example.com -- > b.svc.prod, hotstandby
1 : a.example.com
Call Router
3 : a.svc.prod
4 : a.svc.prod
5 : Pod 1, Pod 2
7 : INVITE
kubernetes
Master Node
a.svc.prod
Pod 1
Pod 2
b.svc.prod
Pod 3
Pod 4
opensips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b.svc.prod
Pod 3
Pod 4
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OpenSIPS Works as a **SIP-Proxy and Ingress Controller**

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- Dynamic Scaling
- Load Balancing
- Centralized Traffic Control
- Fault Tolerance
- Analytics
- Observability

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Thankyou!

Any Questions