



GopherCon Brasil

Go for everybody.

2024-05-09

SERVIÇOS QUE FOFOCAM

desvendando a magia do Serf em Go

GEOVANI DE SOUZA

DESENVOLVEDOR @ SERRABITS

CONTEÚDO

PROBLEMA

SERF

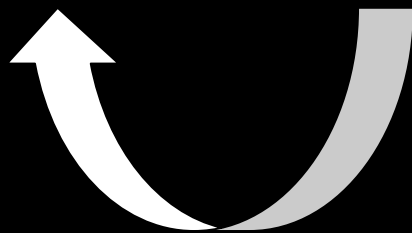
IMPLEMENTAÇÃO

DEBATE

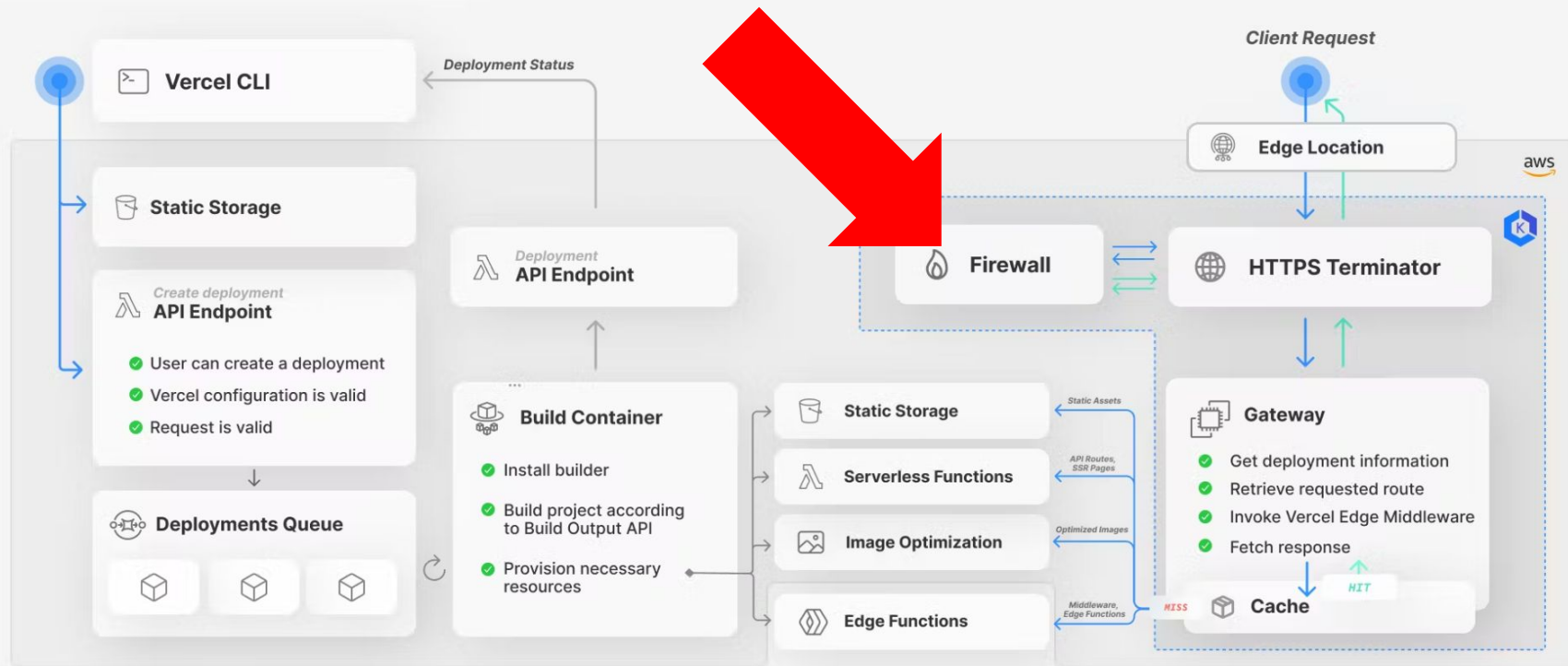


PROBLEMA

 **Vercel**  **SERRABITS**



VERCEL EDGE NETWORK



VERCEL FIREWALL

Open System Interconnection (OSI) Model

The OSI model is a concept that outlines the different communication steps of a networking system. Different attack types can target different layers of the OSI model.

DDoS attacks often target the network (layer 3), transport (layer 4), and application (layer 7) layers of the OSI model. Vercel mitigates against these attacks, and protects the entire platform and all customers from attacks that would otherwise affect reliability.

Layer 3 DDoS

The goal of a layer 3 (L3) DDoS attack is to slow down and ultimately crash applications, servers, and entire networks. These attacks are often used to target specific IP addresses, but can also target entire networks.

Layer 4 DDoS

The goal of a layer 4 (L4) DDoS attack is to crash and slow down applications. They target the 3-way-handshake performed on TCP connections. This is often called a SYN flood. Layer 4 DDoS attacks are used to target specific ports, but can also target entire protocols.

Layer 7 DDoS

The goal of a Layer 7 (L7) DDoS attack is to crash and slow down software at the application layer by targeting protocols such as HTTP, GET, and POST requests. They are often silent and look to leverage vulnerabilities by sending many innocuous requests to a single page. Vercel provides sophisticated proprietary L7 mitigation and is constantly tuning and adjusting attack detection techniques.



PROBLEMA

```
id := lookup('gopherconbr.org')  
config := configs[id]
```

PROBLEMA

```
id := lookup('gopherconbr.org')  
config := configs[id]
```


PROBLEMA

**KV store elástico de
baixa latência e sem
replicação**

SERF

Serf

SERF



SERF

Infrastructure

Lifecycle Management



Use infrastructure as code to build, deploy, and manage the infrastructure that underpins cloud applications.

Learn more →

Security

Lifecycle Management



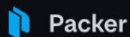
Use identity-based access controls to manage the security lifecycle of your secrets, users, and services.

Learn more →



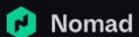
Terraform

Infrastructure provisioning



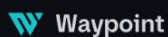
Packer

Image management



Nomad

Workload orchestration



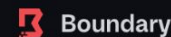
Waypoint

Developer platform



Vault

Secrets management



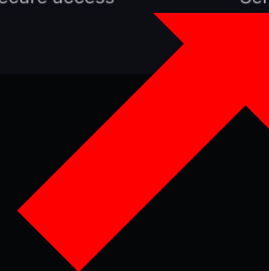
Boundary

Secure access



Consul

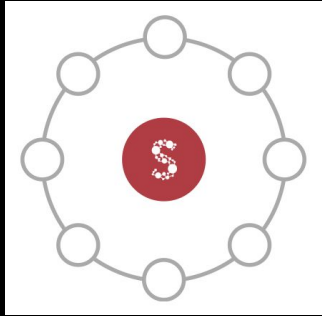
Service networking



SERF

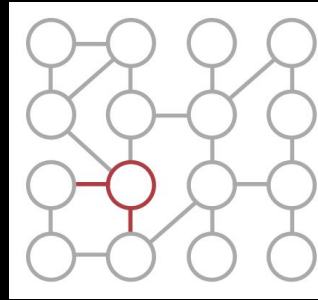
Filiação
decentralizada,
detecção de
falhas e
orquestração





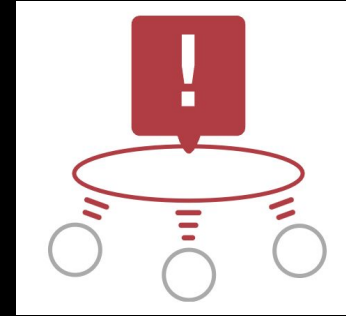
Filiação por fofoca

Protocolo simples e eficiente em que mensagens são trocadas periodicamente



Detecção de falhas

Os membros trocam mensagens para detectar membros ausentes ou falhas



Mensagens customizados

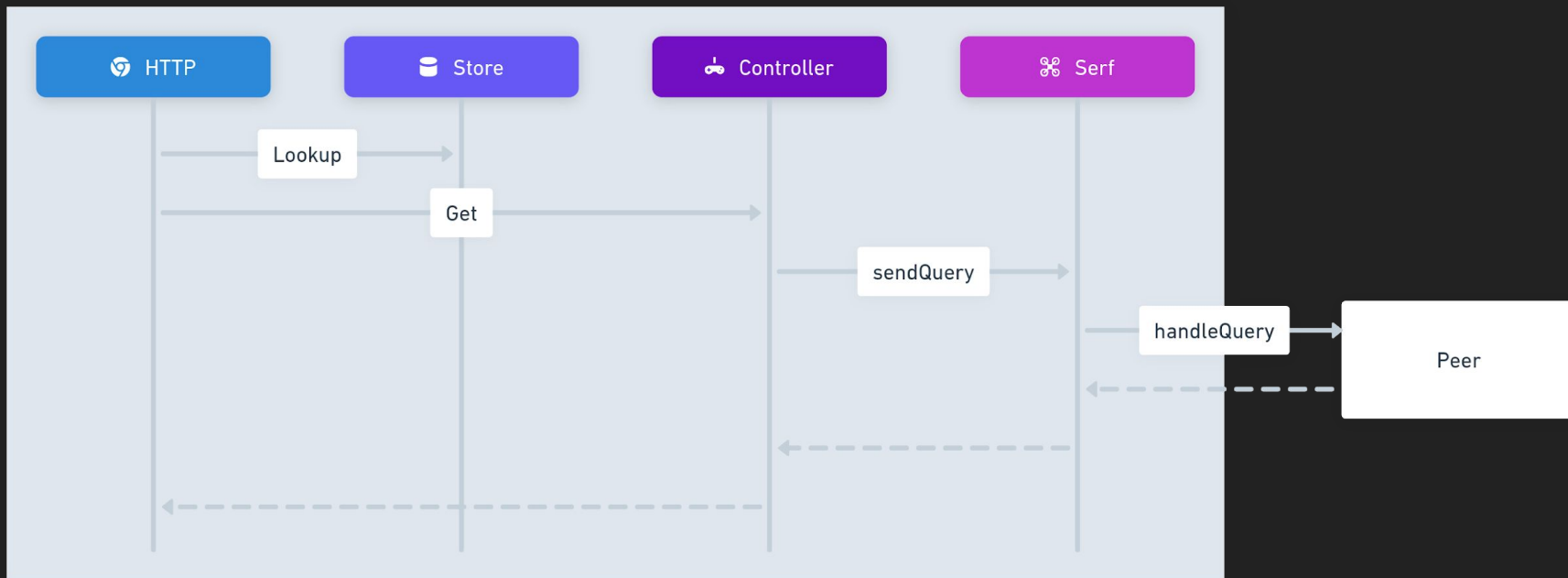
Permite disparar eventos e consultas além de filiação

IMPLEMENTAÇÃO

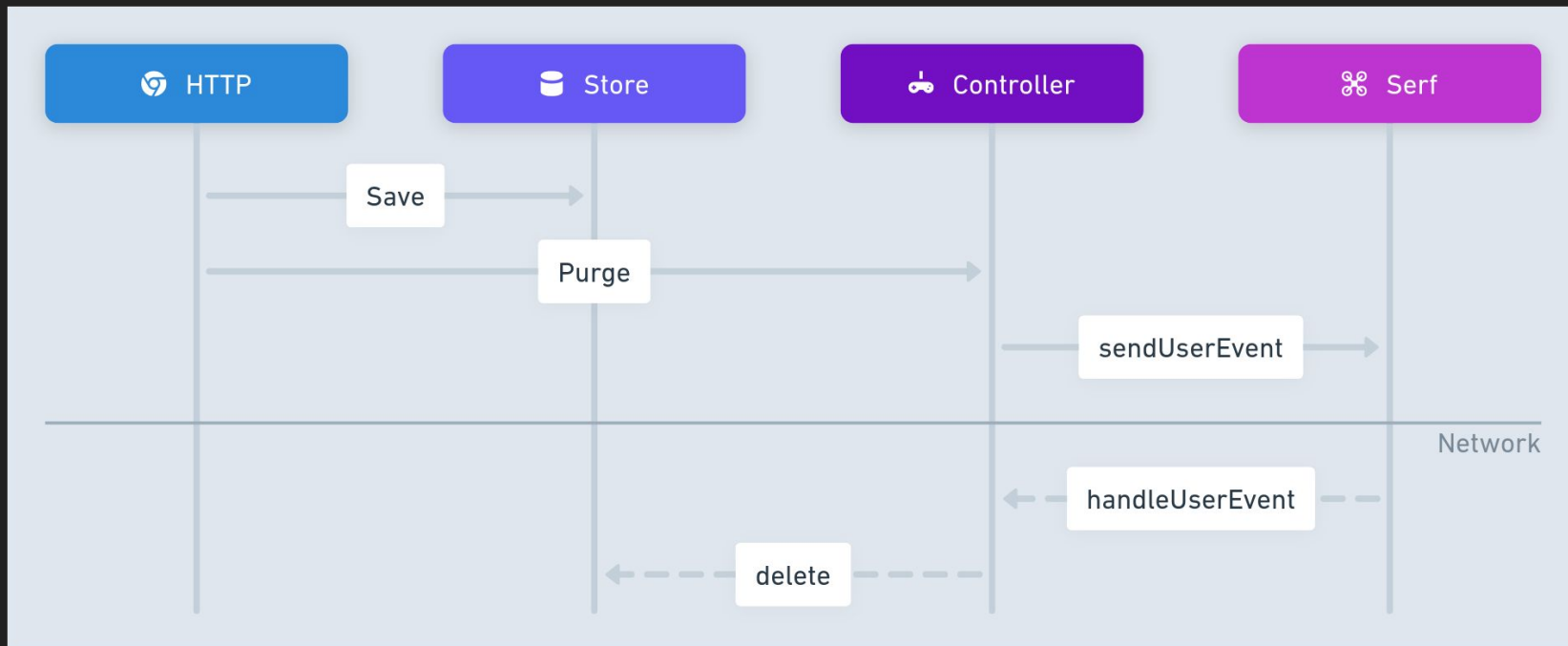
Criar um serviço que não exija configuração ou coordenação para colaboração e troca de dados



IMPLEMENTAÇÃO: GET /{KEY}



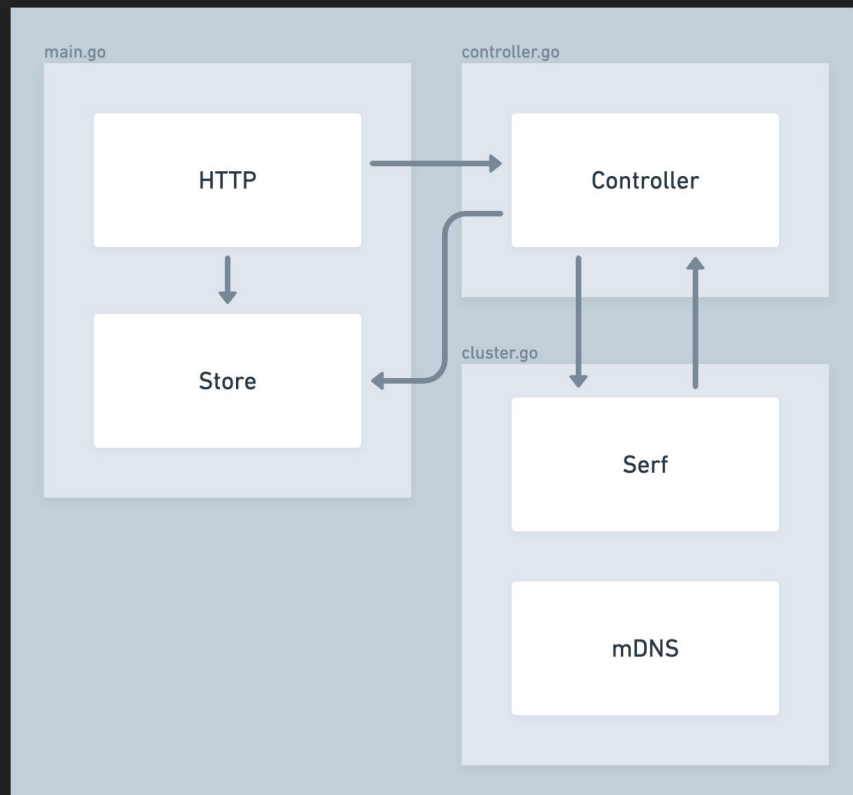
IMPLEMENTAÇÃO: POST /{KEY}



IMPLEMENTAÇÃO

Demo

<https://github.com/geovani-souza92/gopher-con-24-go-ssip-services>





CONTATO

CONECTE-SE COMIGO!

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MOMENTO PARA

DEBATE

