

# Sistemas Node.js Escalables

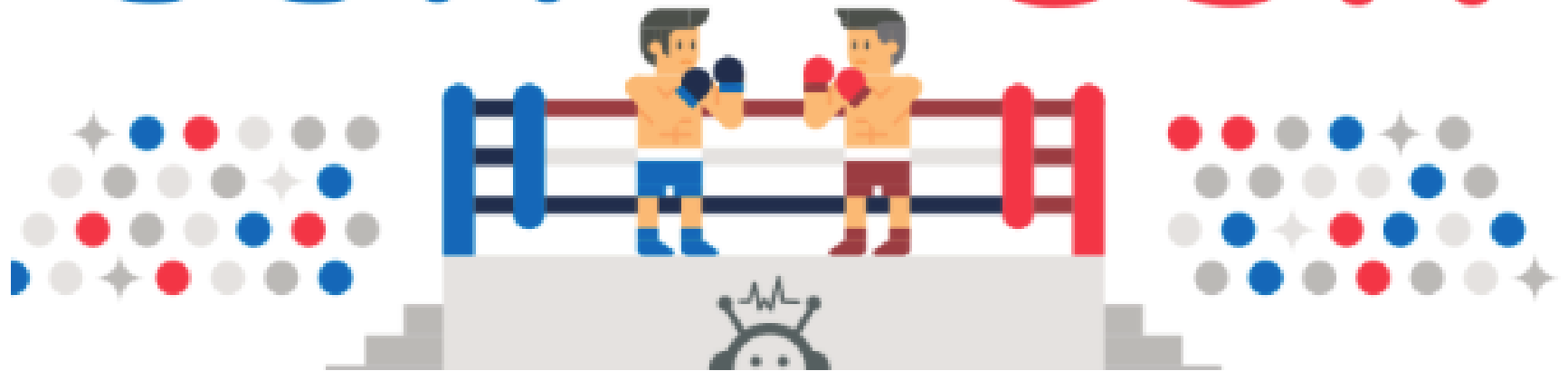
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UGR - SWAP

# Introducción:



# SSR vs CSR



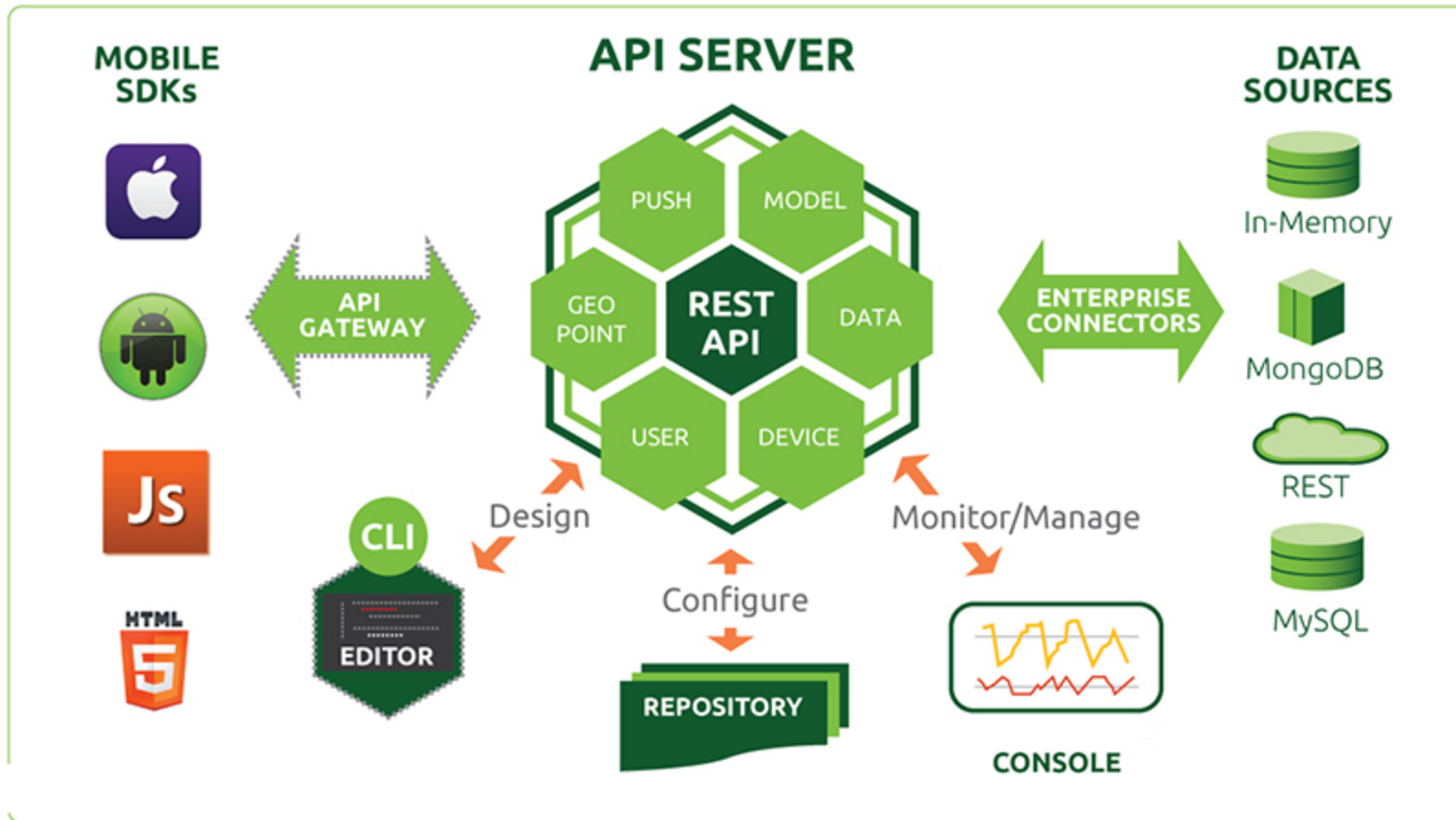
# Client side rendering (CSR)

- SPA
- Hosting barato
- Uso de CDN
- Despliegues fáciles
- Obliga a separar lógica e interfaz
- Misma UI para Web, móviles, and Escritorio.

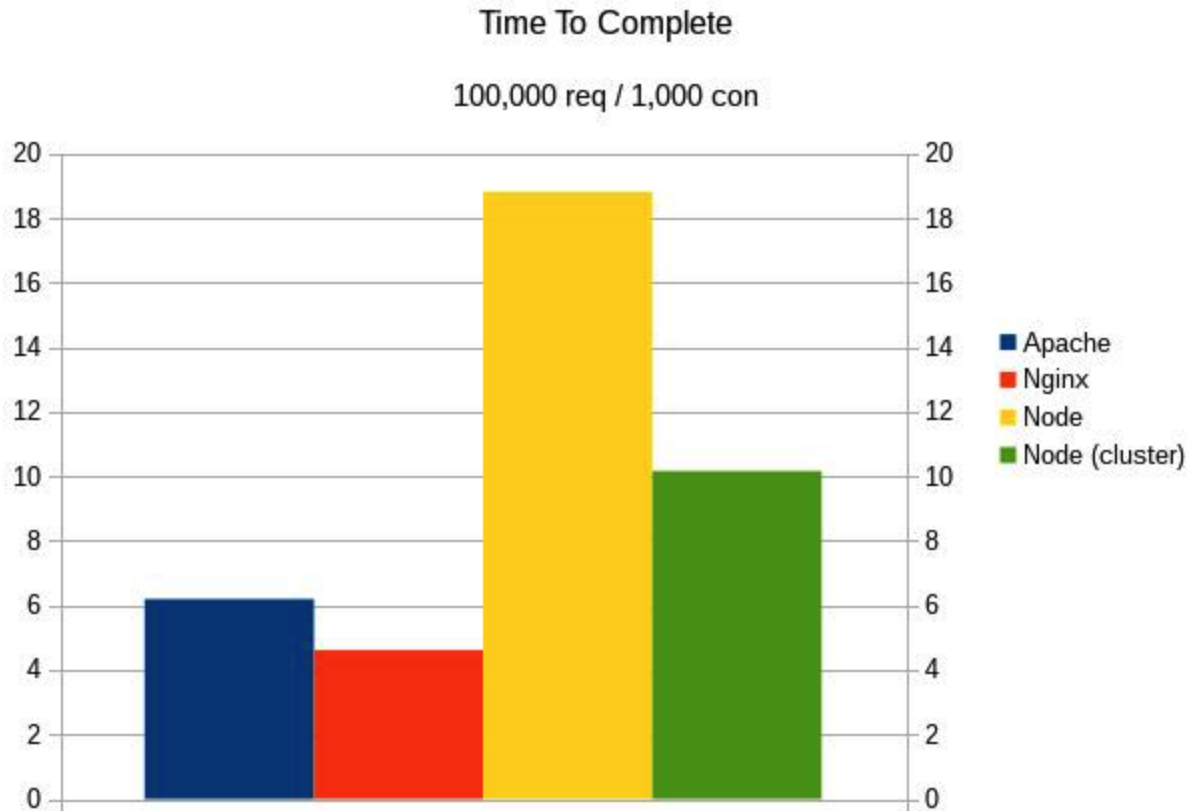
# Server side rendering (SSR)

- Mejor rendimiento del SEO
- Mejoras de prestaciones **para nuestros usuarios**

# Principales usos de Node.js



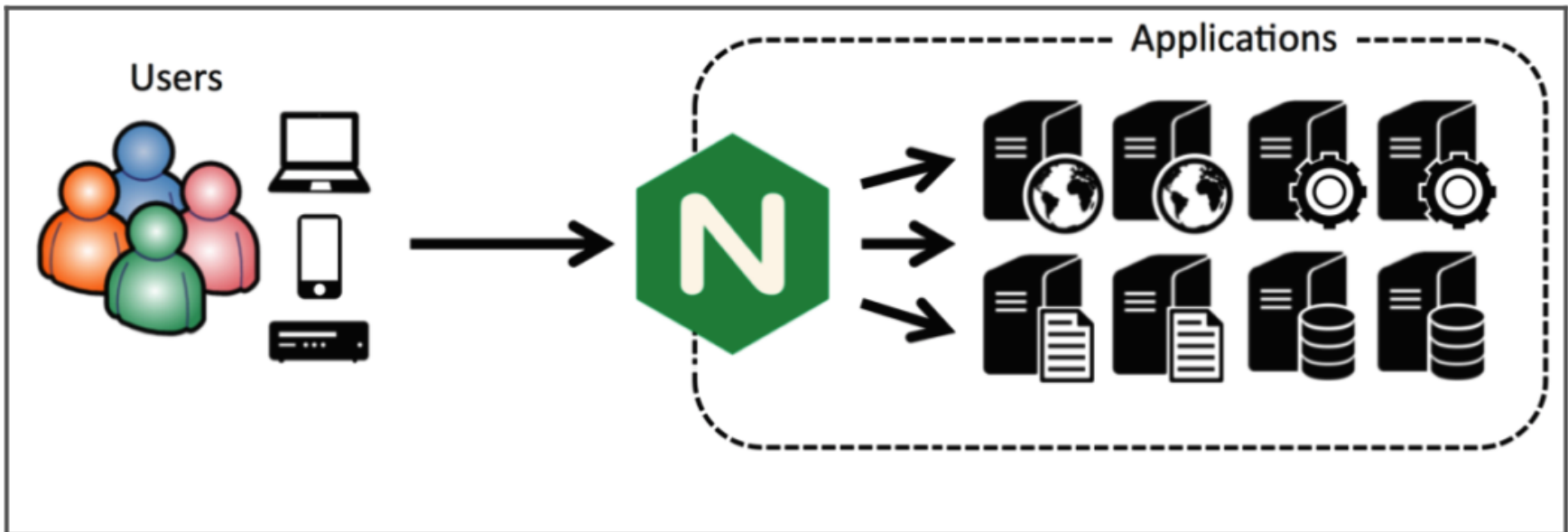
# Problemas de Node.js



- Node es lento sirviendo archivos estáticos
- Node usa un solo núcleo de nuestra máquina

# Soluciones

- Balanceo de carga
- Servir contenido estático desde NGINX





# Concretamente:

/etc/nginx/conf.d/default.conf

```
upstream nodejs-workers {  
    ip_hash;                                # Mantener sesiones  
    server 192.168.1.54:8080 weight=1;      # NodeJS instance.1  
    #server <IP o dominio> weight=1;        # NodeJS instance.2  
    keepalive 10;  
}
```

## /etc/nginx/conf.d/default.conf

```
server{
    listen 80;
    server_name balanceador;

    access_log /var/log/nginx/balanceador.access.log;
    error_log /var/log/nginx/balanceador.error.log;

    root /var/www/html;

    location / {
        try_files $uri $uri/ @backend $uri.html =404;
    }

    location @backend {
        proxy_pass http://nodejs-workers;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_http_version 1.1;
        proxy_set_header Connection "";
    }
}
```

## Sources:

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