

"How-to" of Cloud-native Traffic Management

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About

 Co-founder, Chief Architect and CTO, Avi Networks

CNCF Ambassador

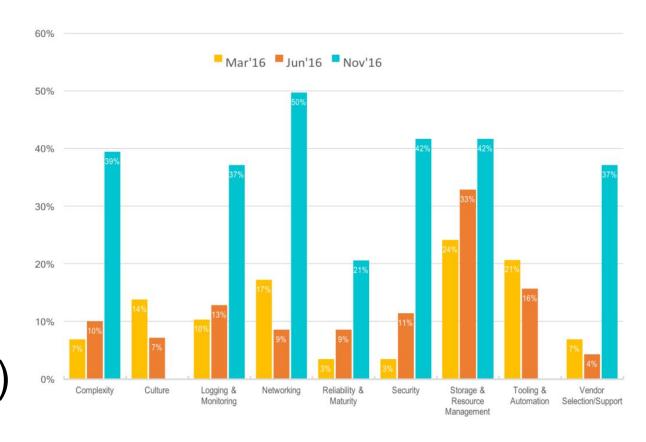
 Container Networking and Application Service Meetup organizer



Recent CNCF Survey

Top challenges in using and deploying containers

- Networking (50%)
- Security (42%)
- Logging & Monitoring (37%)



Workflow



User request: www.acme.com



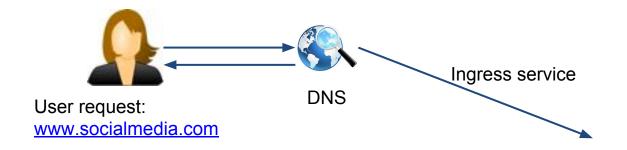
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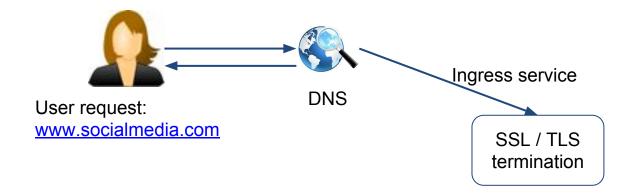
DNS / Service Discovery

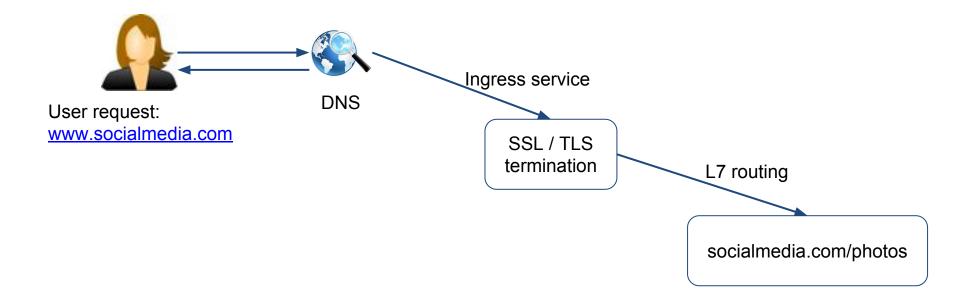


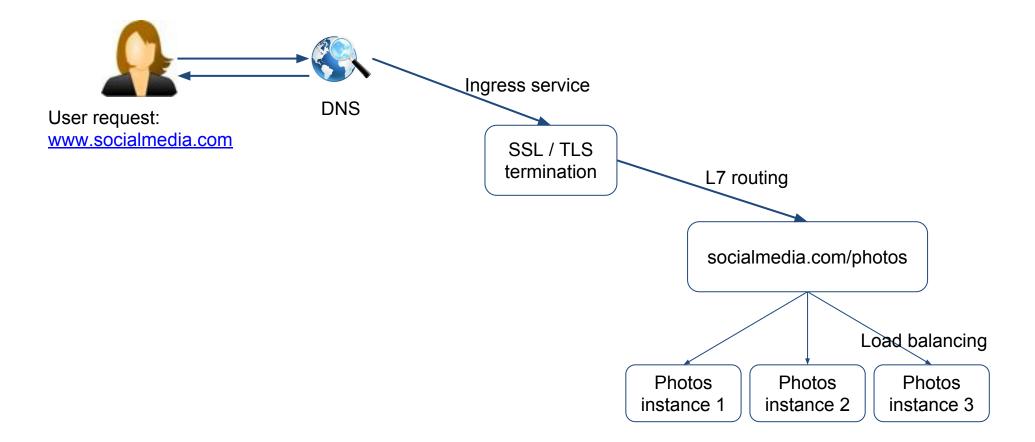
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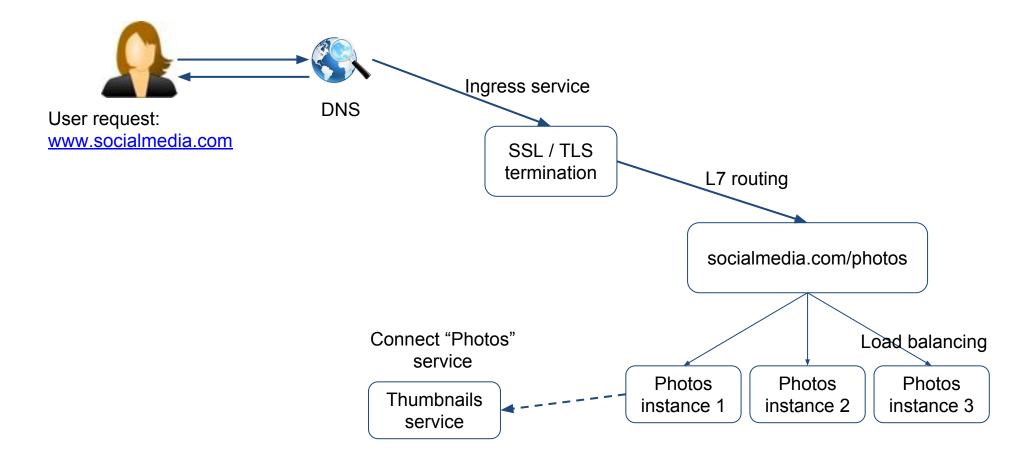
DNS responds with IP address

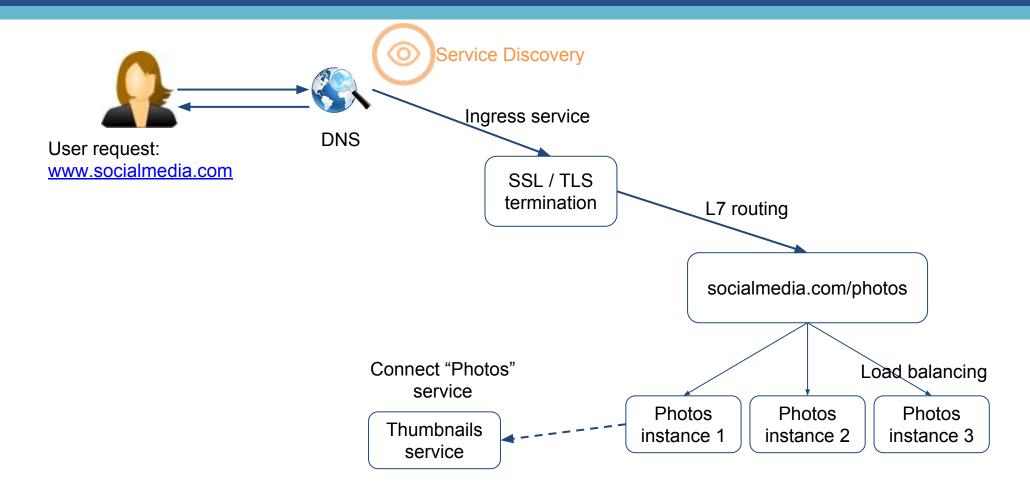


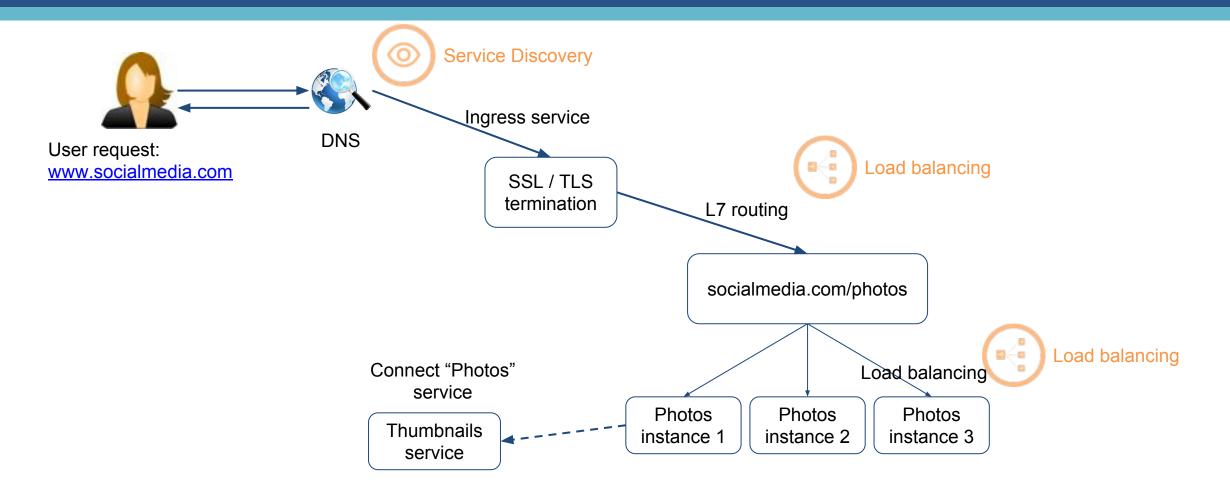


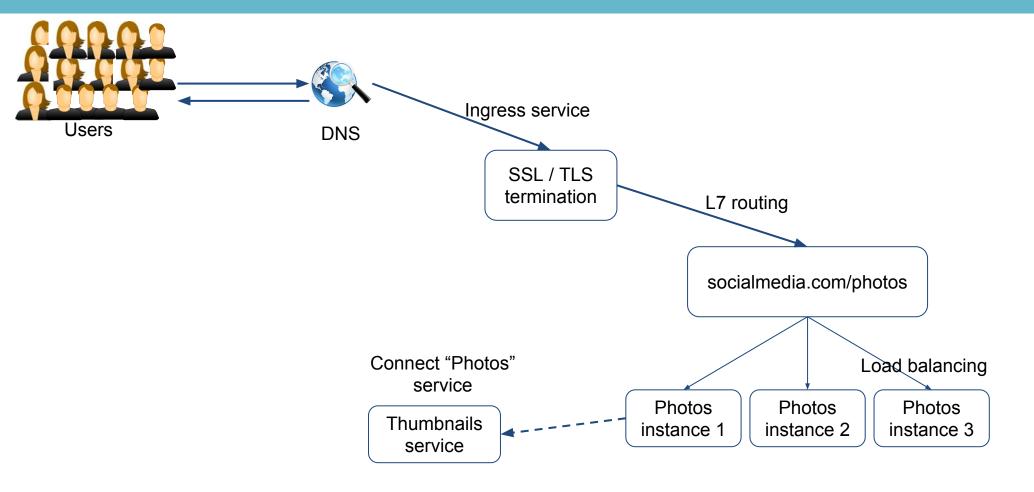


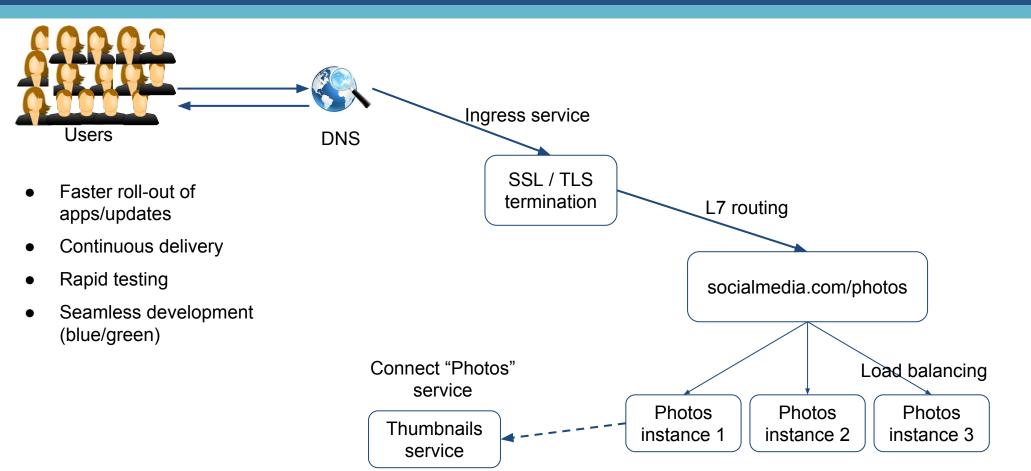


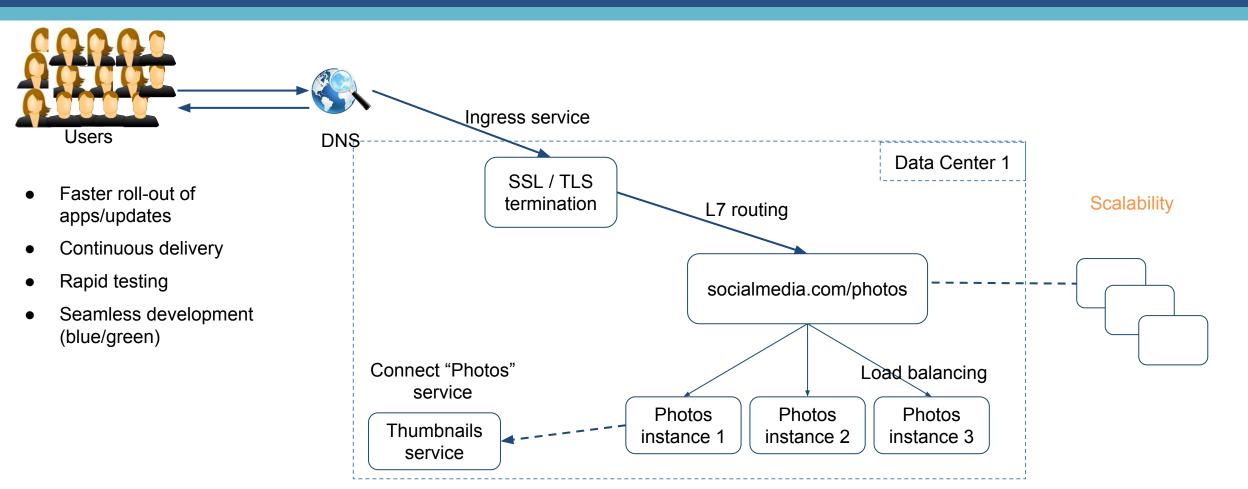


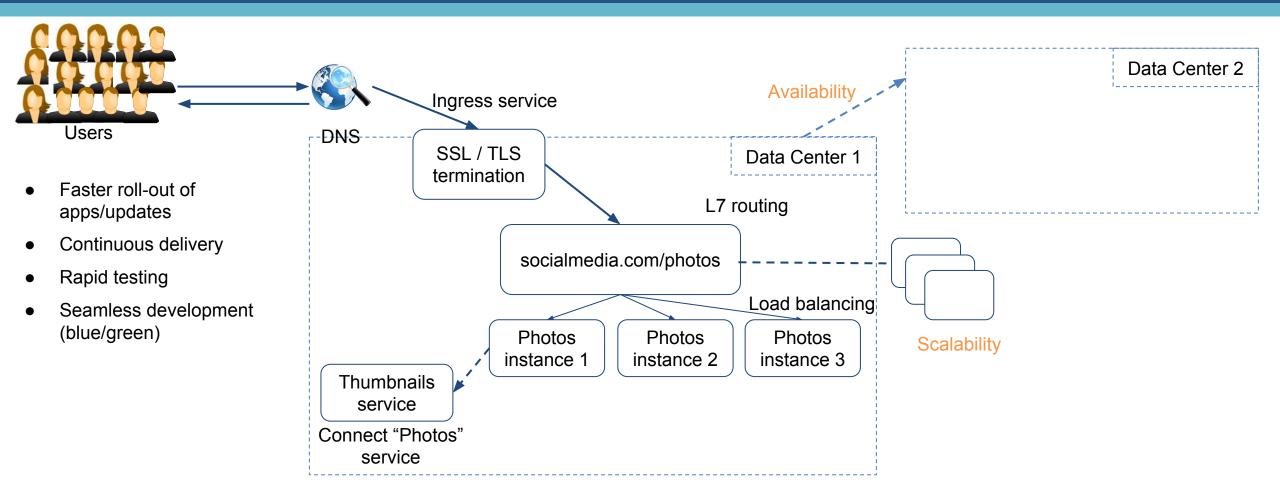


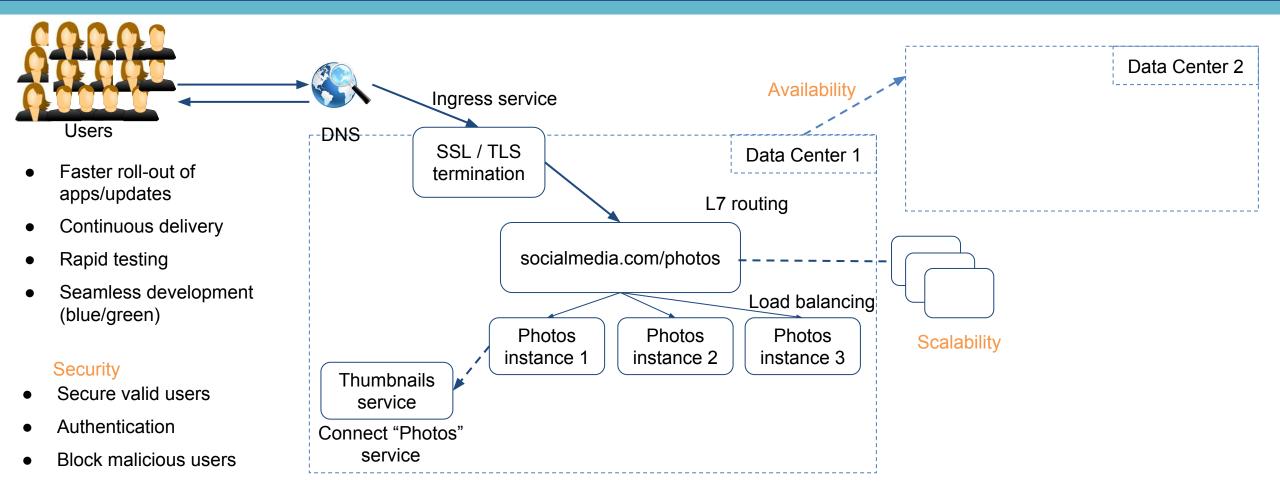






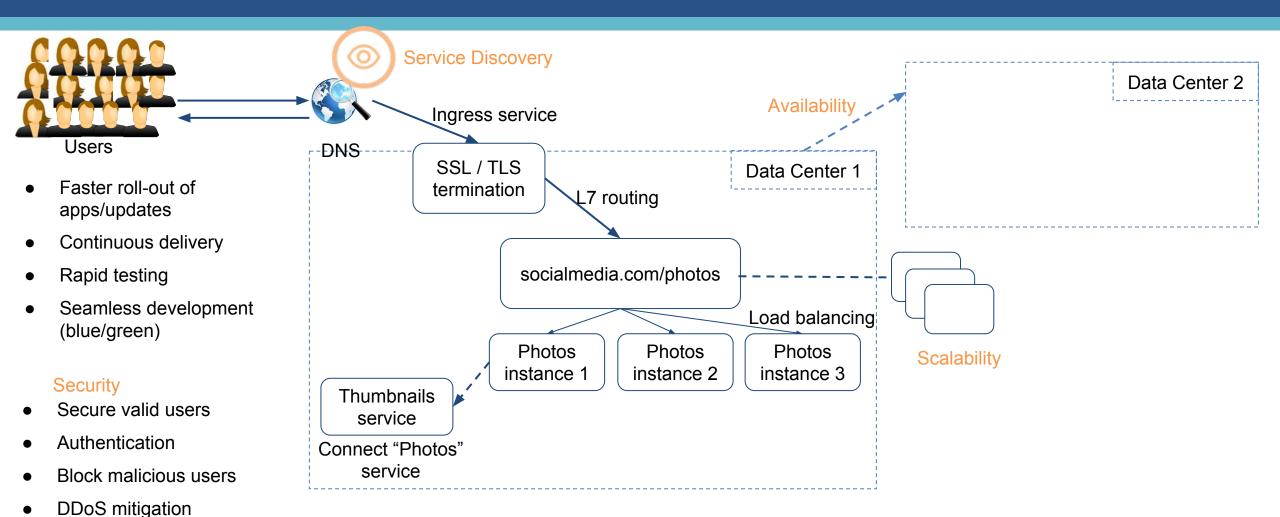




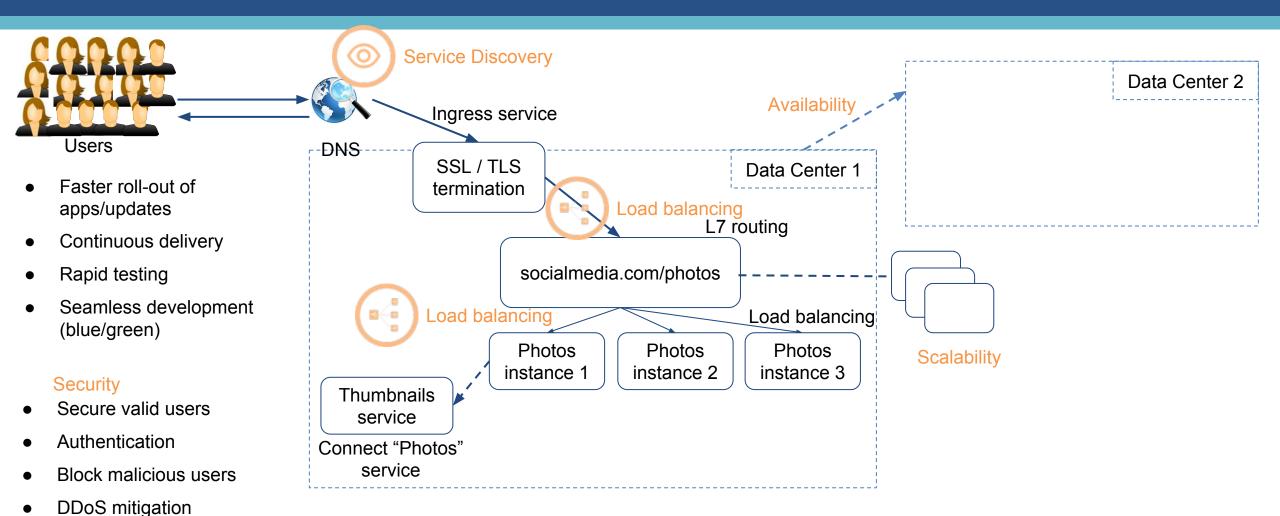


WAF

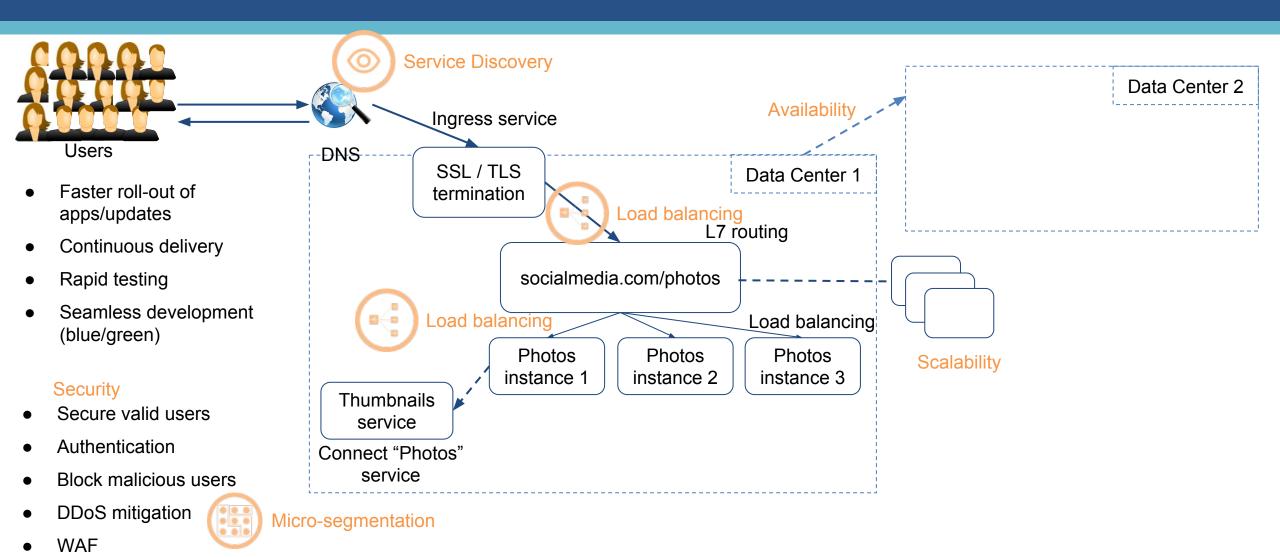
DDoS mitigation

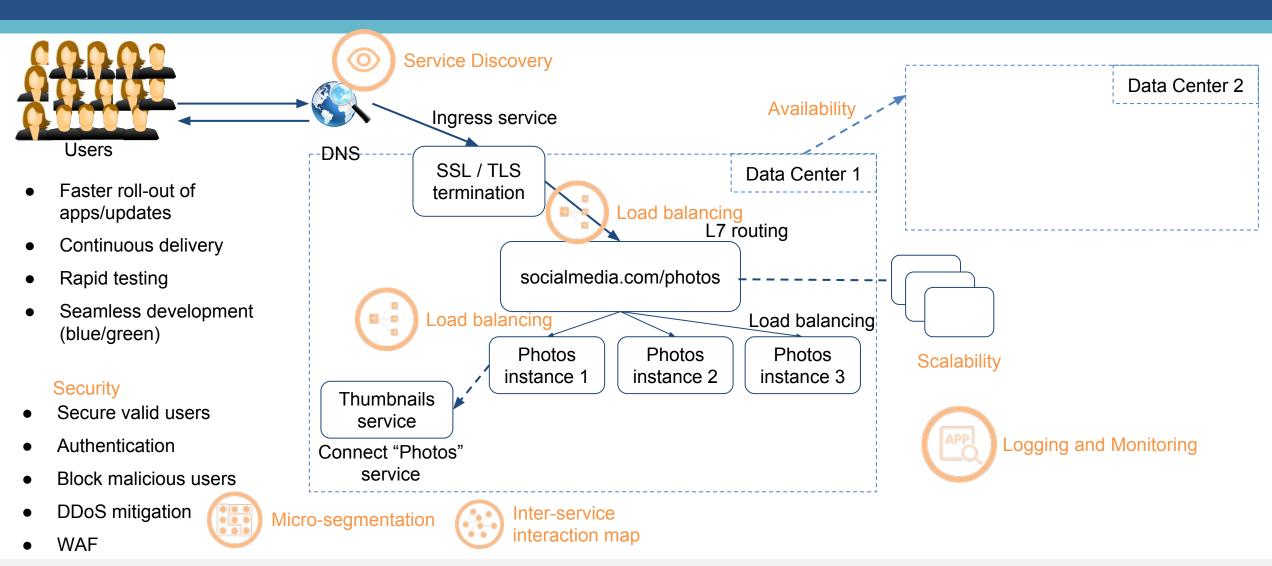


WAF



WAF





To conclude...

Traffic Management

- Cluster Ingress
- Intra-cluster

Application Services

- Service Discovery / DNS
- Service Proxy / Load Balancing
- Security / Micro-segmentation
- Logging and Monitoring
- Availability / Autoscaling

Questions?

How to reach Ranga

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Automation and Integration are key!

Service Discovery

Service Proxy

Security

Logging and Monitoring

Availability

Automated Application Services

Integrated with the cluster

In-meshed Fabric