

Genesis of websites on Google Cloud

Notes

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

The team



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Monday morning

You wake up and the company website is gone!
You have one week to bring it back online.
Here is your chance to start over.

DISCLAIMER: Personal opinions might be part of the presentation

The reason you are here

You care about deploying websites on Google cloud

The reason you are here

Catastrophy tourism

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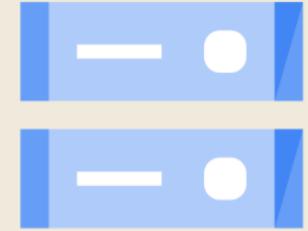
Thursday

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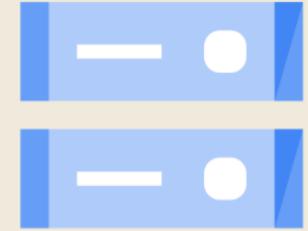
Sunday

Google Cloud Storage



- Blob storage
- Public files can be reached through URLs
- Load balancers can be configured to use it as a backend

Google Cloud Storage



Pros

Easy to set up

Easy to automate

Cost efficient

Cons

Only static content

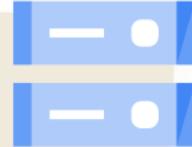
No backend logic

Hard to use deployment strategies

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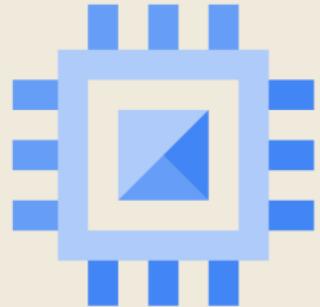
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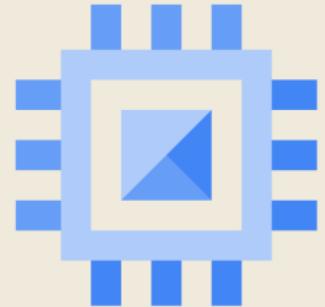
Sunday

Compute engine (just a VM)



- A virtual machine in the cloud
- It can have public and private IP addresses
- You can use it as a machine that you don't have physical access to

Compute engine (just a VM)



Pros

Total freedom

Can be cost effective

Cons

Hard to manage

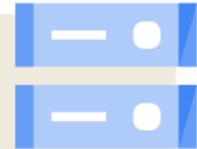
You have to do everything

Feels outdated

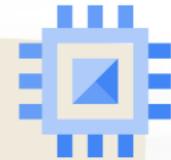
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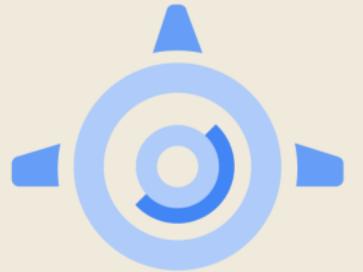
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App Engine



- Fully managed application platform
- Host monolithic server-side rendered websites
- Supports Node.js, Java, Ruby, C#, Go, Python or PHP

App Engine



Pros

Easy to get started

Mature tooling

No container knowledge required

Cons

Region locked

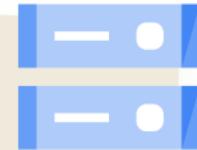
No IAM

Custom env can't scale to 0

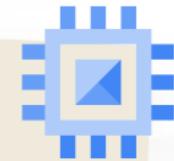
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Cloud Run



- Fully managed container platform
- Good for frontend, backend, stream and batch processing jobs
- Autoscaling

Cloud Run



Pros

Very flexible

Super simple

Scale to 0, CUD

Gets a lot of love

Cons

Complex pricing

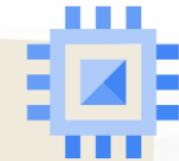
Limited resources

Firewalls?

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Firebase hosting



- Webapp hosting service
- Handles dynamic and static content and microservice
- Works best with Flutter and Javascript frameworks

Firebase hosting



Pros

Built in CDN

Great emulator

Built for mobile apps

Cons

Somewhat vendor lock-in

No custom runtime

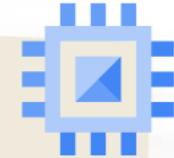
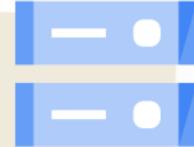
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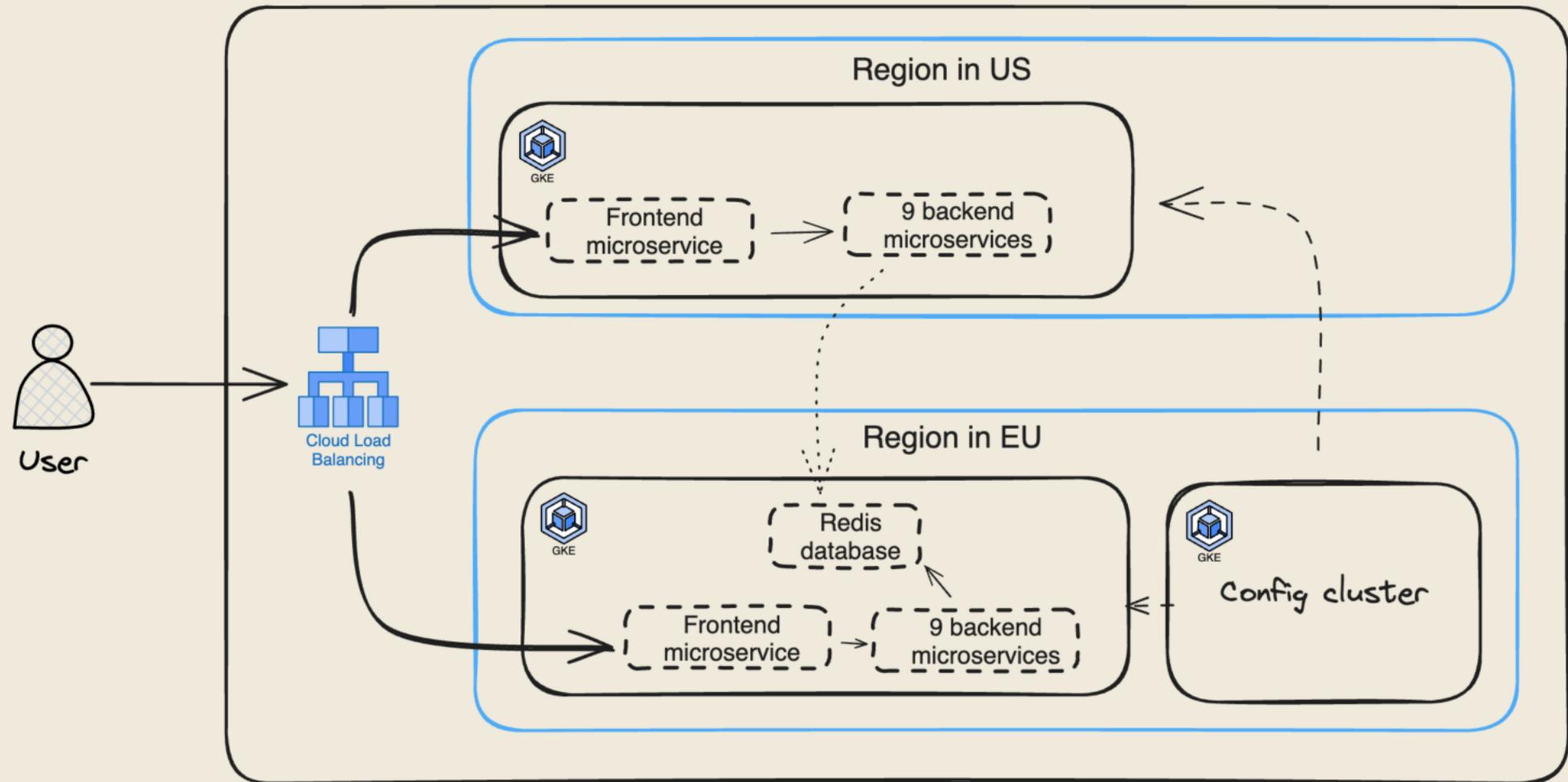
Google Kubernetes Engine



- Kubernetes cluster as a service
- Automated, scalable



Architecture



Google Kubernetes Engine



Pros

Open-source

Highly customisable

Possible multicloud

Cons

Requires a lot of knowledge

Not serverless

Once you use it you will want to solve everything with it

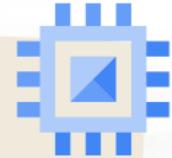
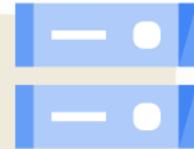
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On this day we deploy a REST API

But we can do a
recap take questions!

Recap



Questions?

