



Serverless Web Application

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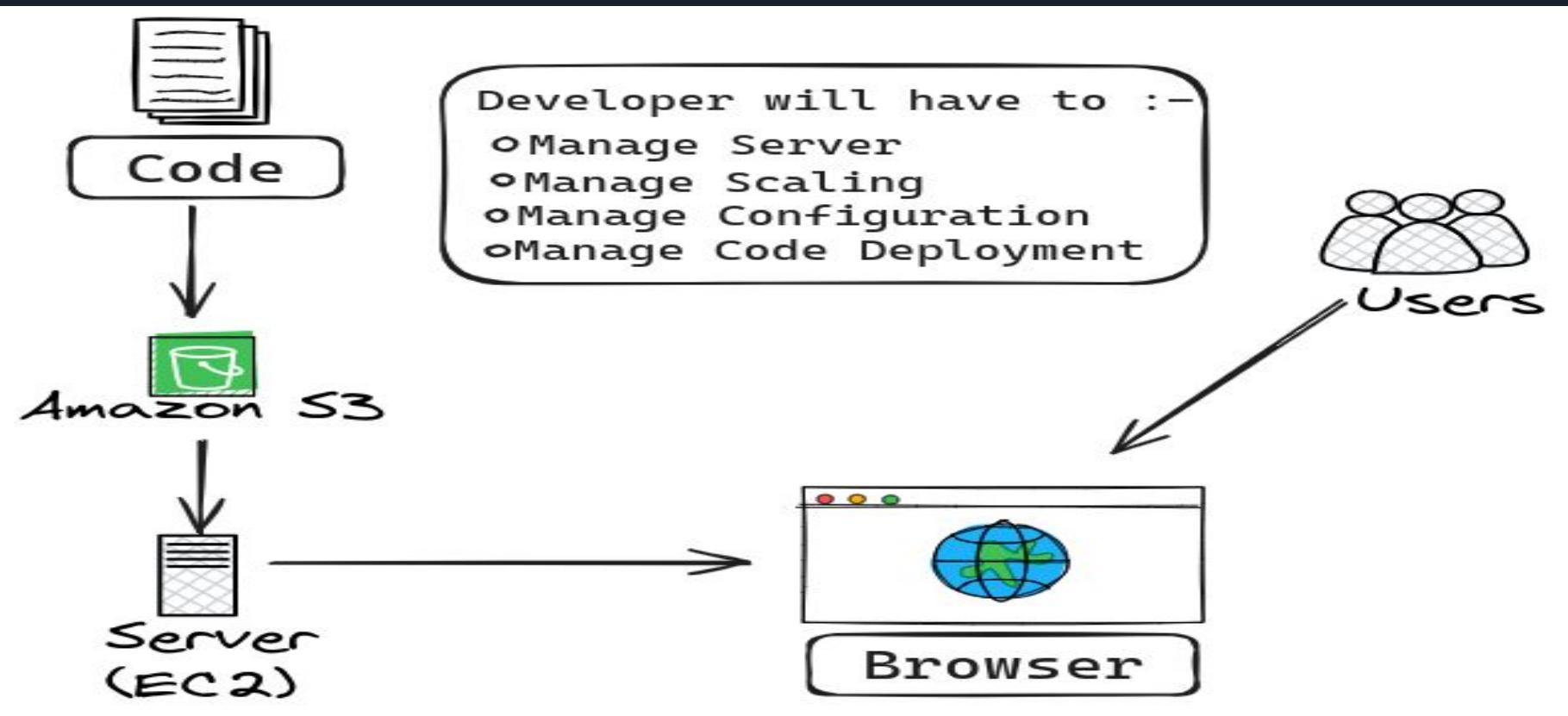
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Non-Serverless Architecture (VPS Based Deployment)



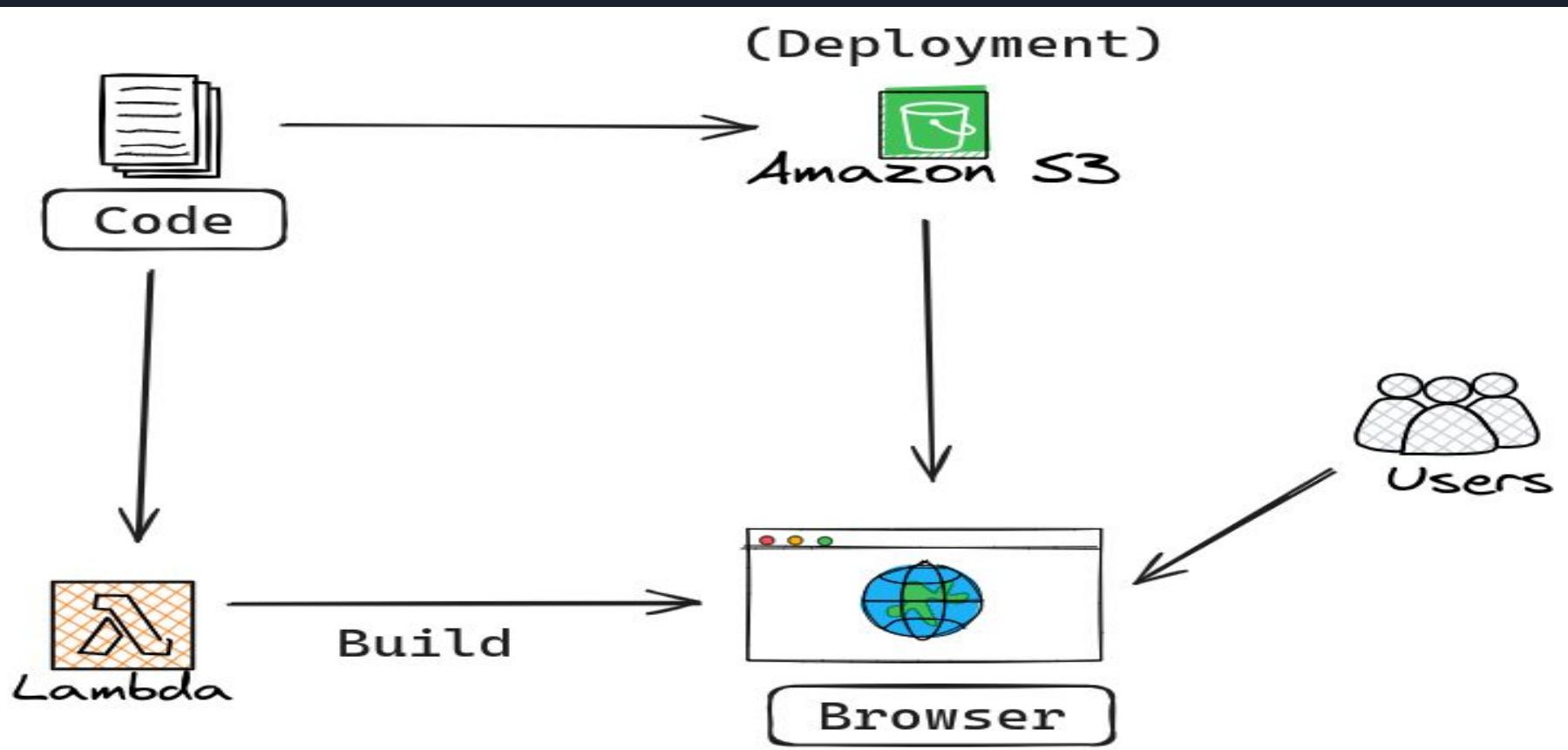
What Serverless Is Not

Serverless ≠ No Servers

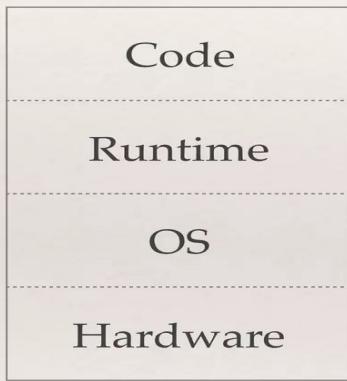


Saying “there is no backend” can be misleading. There is still a backend infrastructure; It is just managed by the Cloud Provider rather than the developer.

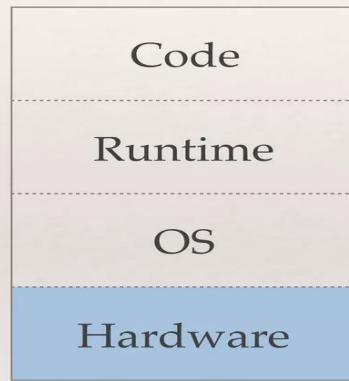
Serverless Architecture



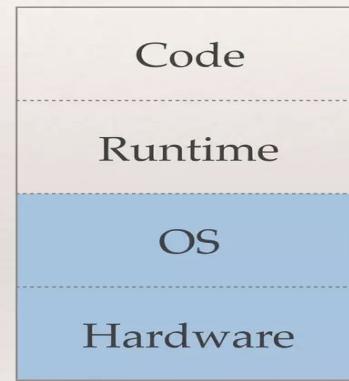
Evolution: Servers to serverless



Servers



Virtual Machines



Containers



Serverless



S3 Bucket - Storage as a Service

- S3 is an Object Storage and it is unlimited in size
- S3 gives you 99.999999 % of Durability
- There will be a 0.000001 % .. VERY VERY Low Chance of Losing Data
- When we Create a S3 Bucket it automatically replicates in 3 availability zones.
- We used S3 to host our webpage in our Project.



CloudFront - CDN as a Service

Speeds up content delivery globally

Enhances security for content delivery

Scales automatically to handle traffic spikes
Provides detailed analytics for performance optimization

Easily integrates with other AWS services



IAM – Security as a Service

- **Manages user access to AWS resources**
- **Sets permissions for users and services**
- **Controls who can do what within AWS**
- **Provides centralized security for AWS accounts**
- **Integrates with other AWS services for seamless access control**



DynamoDB - Database as a Service

- Fully managed NoSQL database service
- Scales automatically to handle any workload
- Low-latency, high-performance database
- Flexible data model for structured and semi-structured data
- Seamless integration with other AWS services



Lambda - Compute as a Service

Serverless compute service

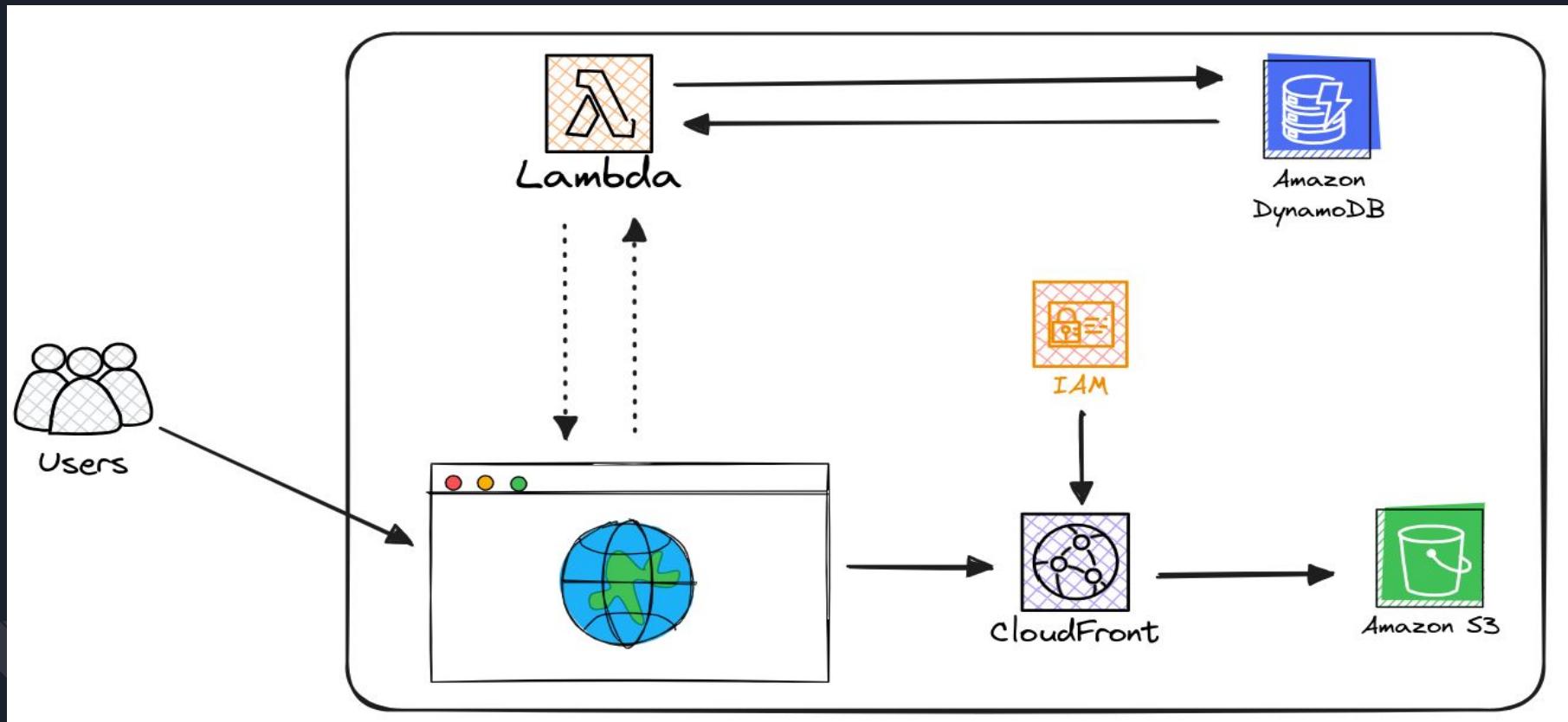
Runs code in response to events

Scales automatically based on workload

Pay only for the compute time consumed

Integrates seamlessly with other AWS services

System Design of our Project



Thank you!

