



# COMMUNITY DAY

— AHMEDABAD —



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# Nirav Shah

AWS Community Builder

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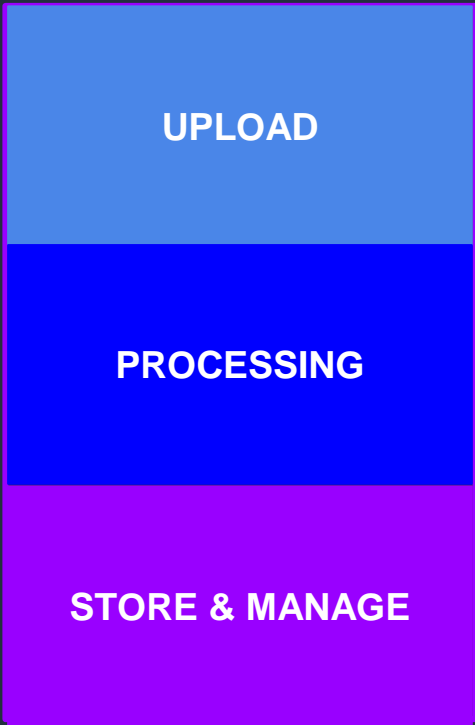
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480 PX

720 PX

1080 PX



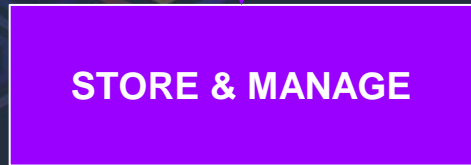
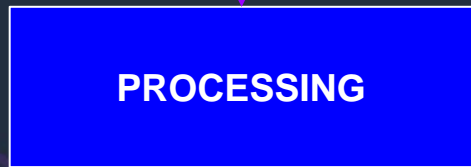
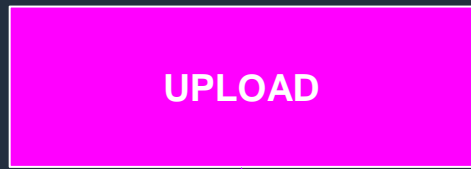
FAILS TOGETHER

SCALES TOGETHER

BILLS TOGETHER



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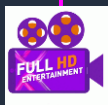
Process component fails leads to upload fails.

Process component slowdown impact on upload component performance.

Each component has to running in order to make app functions.



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UPLOAD



Queue



Queue  
Length



PROCESSING



PROCESSING



PROCESSING

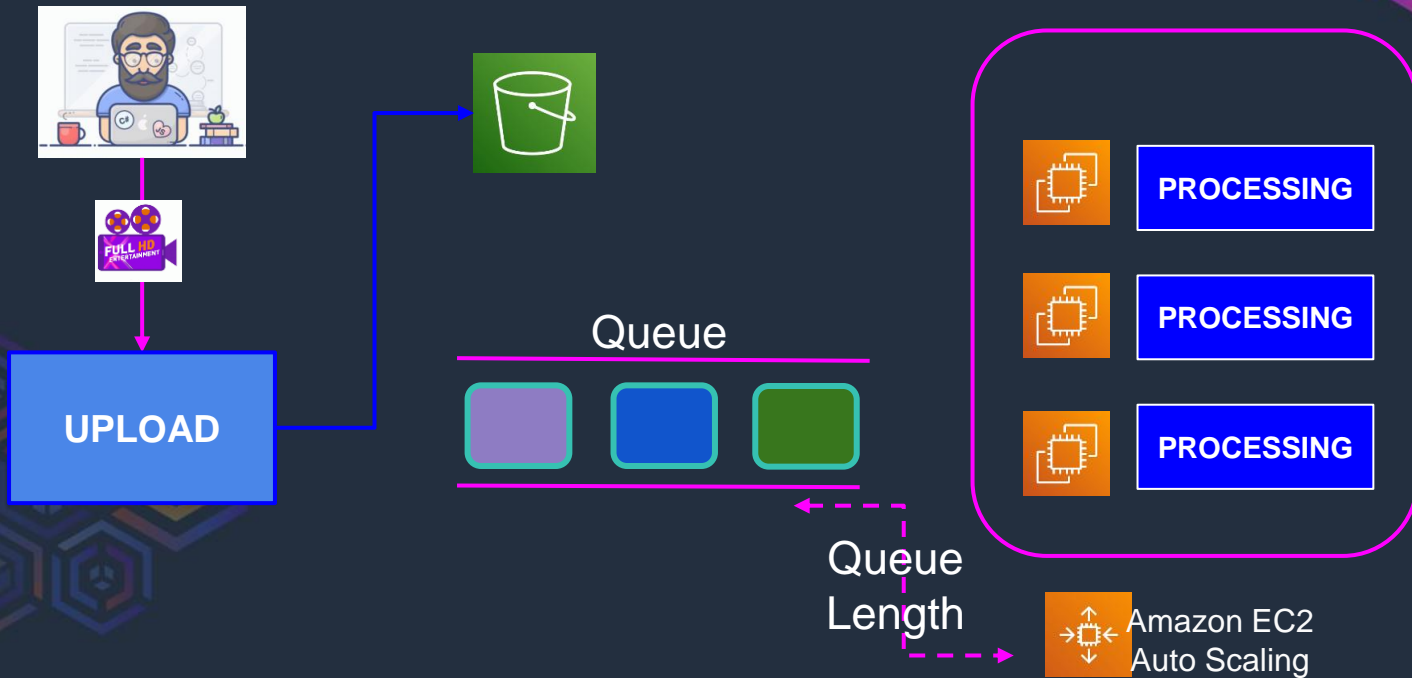


Amazon EC2  
Auto Scaling



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*Serverless architecture abstracts away infrastructure management by allowing developers to focus on writing functions or services without worrying about servers or scaling.*





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Application  
Structure

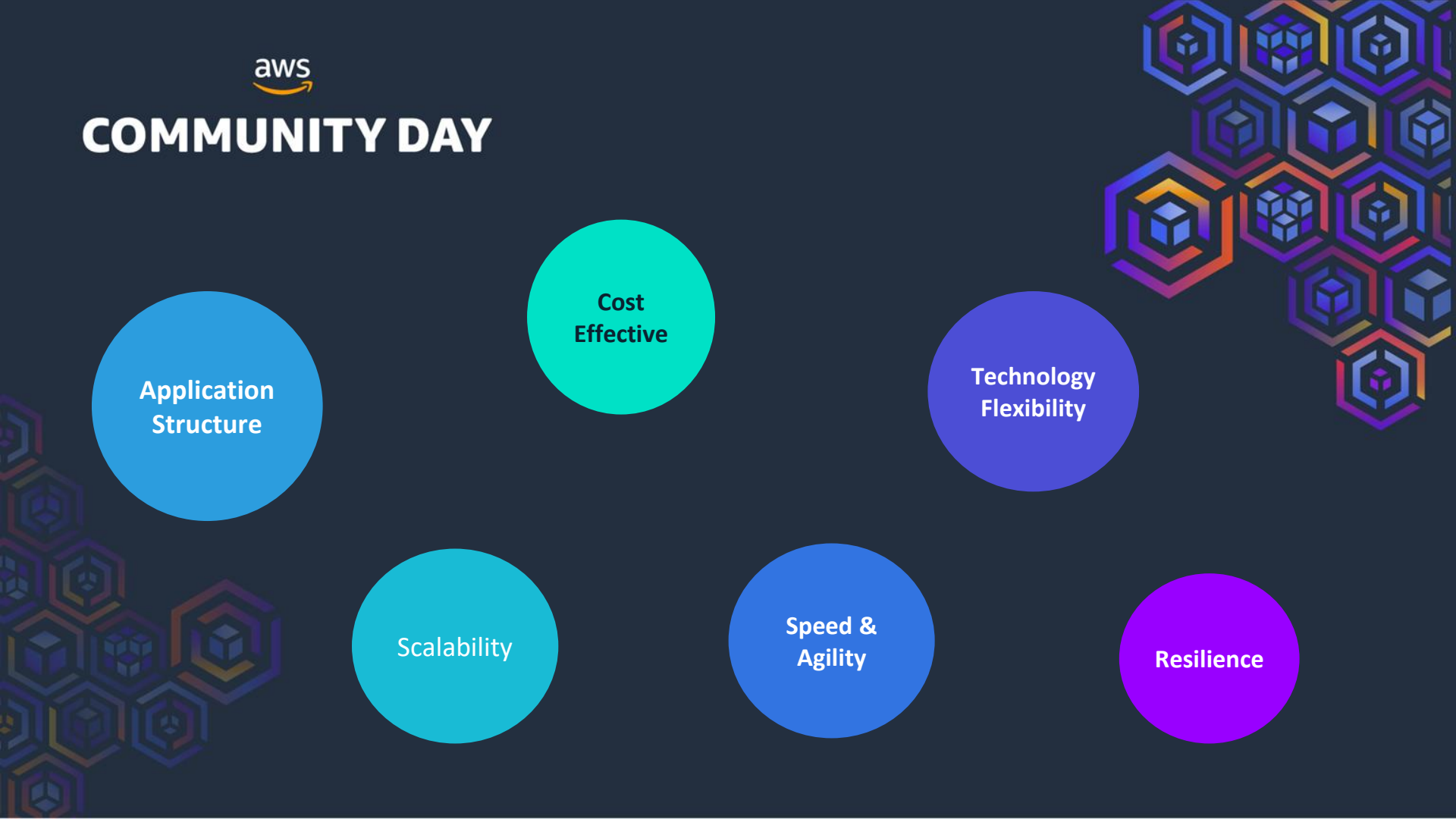
Cost  
Effective

Technology  
Flexibility

Scalability

Speed &  
Agility

Resilience







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## Advantages of Serverless

**Scalability:** Serverless platforms automatically scale the execution environment based on the incoming request load, ensuring efficient resource utilization.

**Cost Efficiency:** Since serverless platforms only charge for the actual execution time, it can be cost-effective for applications with variable or unpredictable workloads.

**Simplified Operations:** Developers can focus on writing code without managing servers or infrastructure, reducing operational overhead.

**Event-Driven:** Serverless architectures are well-suited for event-driven applications, where functions respond to specific triggers.







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# POONAM PATEL

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## AWS SERVERLESS SERVICES

### COMPUTE SERVICES

LAMBDA, FARGATE

### APPLICATION INTEGRATION SERVICES

EVENT BRIDGE, STEP FUNCTIONS, SQS, SNS,  
API GATEWAY, APP SYNC, CLOUDFRONT..

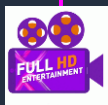
OTHERS

### DATA STORAGE SERVICES

S3, EFS, DYNAMODB, ARORA SERVERLESS,  
ELASTICACHE SERVERLESS, OPEN SEARCH  
SERVERLESS, NEPTUNE SERVERLESS



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UPLOAD



Queue



Queue  
Length



PROCESSING



PROCESSING



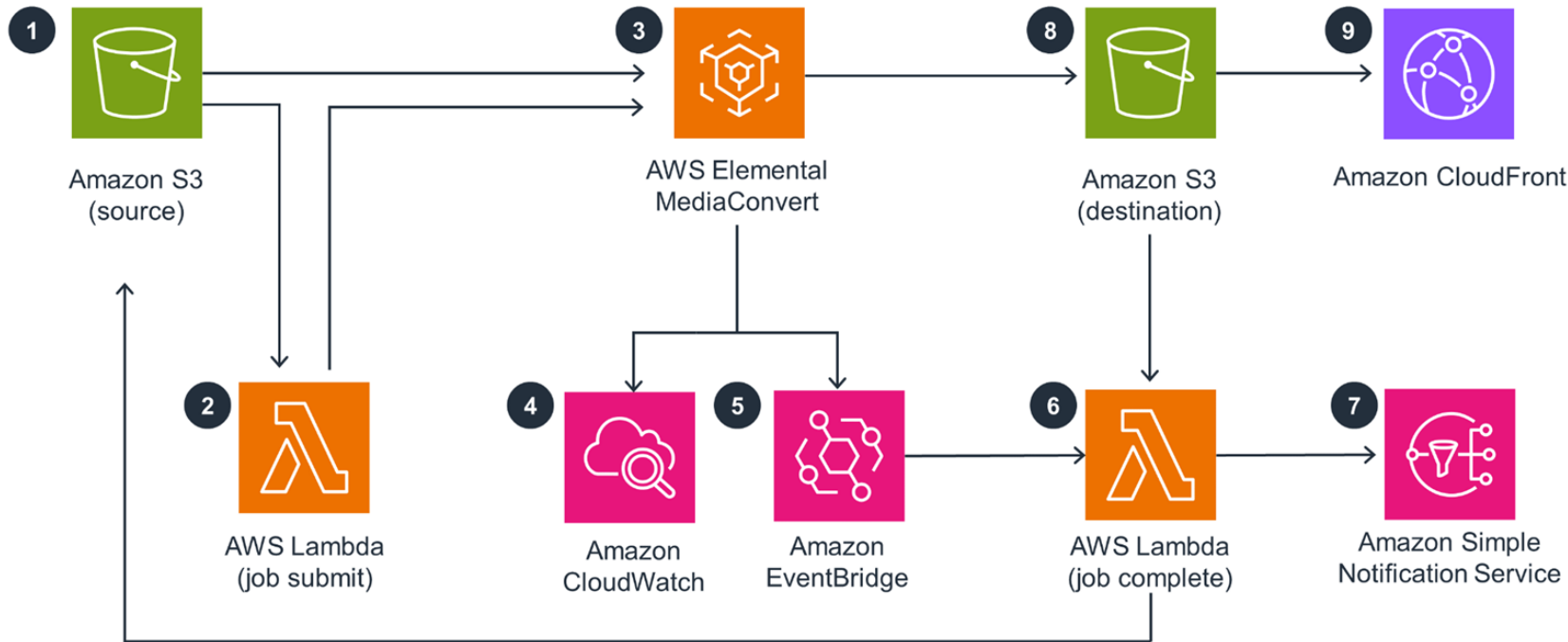
PROCESSING



Amazon EC2  
Auto Scaling

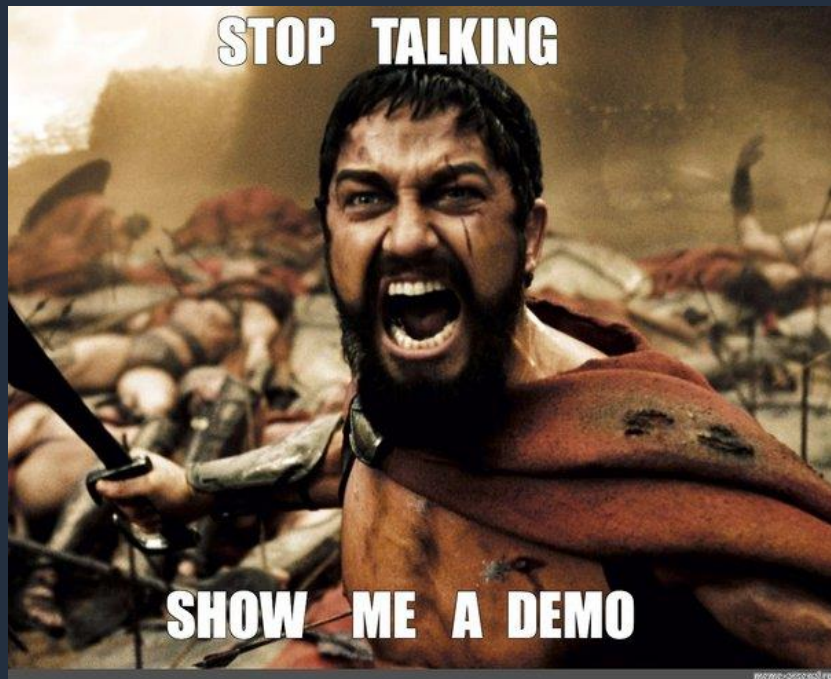


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# Let's start with Cloud Formation Template







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