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FSI302-R

Building highly available systems for financial services

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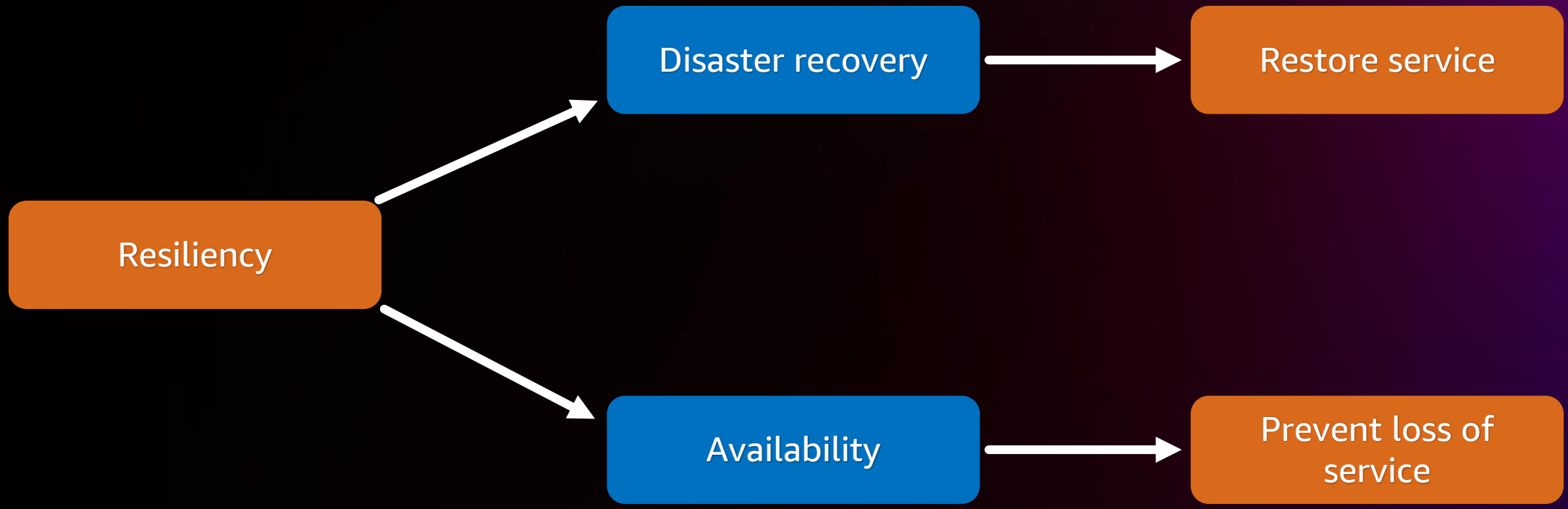
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A common request for our team

“What are we missing?”

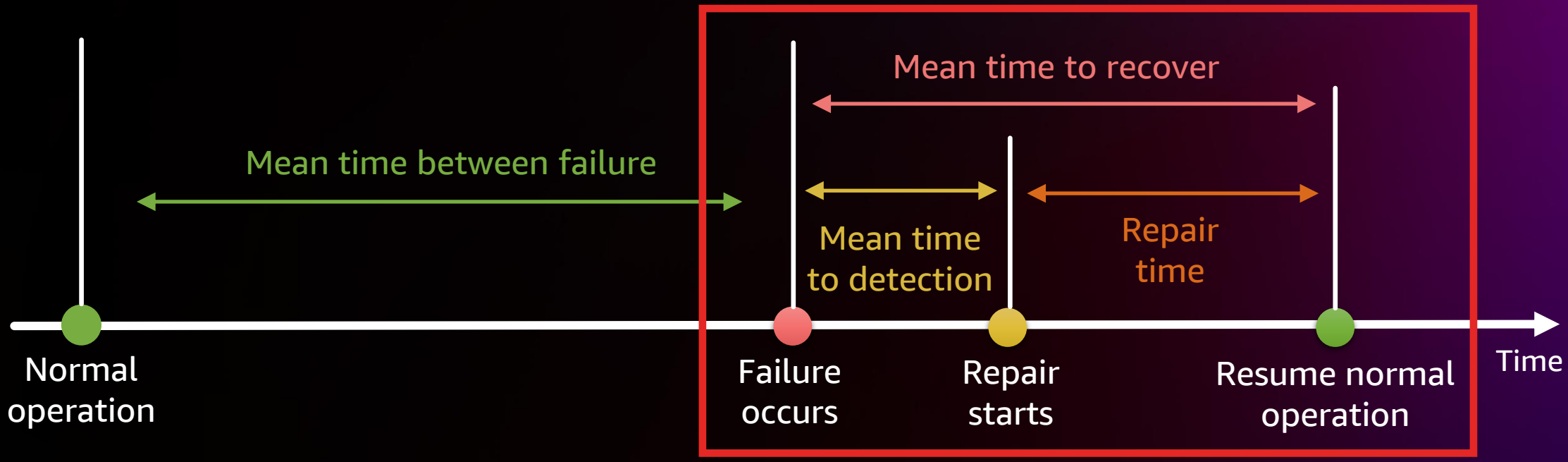
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What is availability?



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Availability metrics



$$A = \frac{\text{uptime}}{\text{uptime} + \text{downtime}} \rightarrow A = \frac{\text{MTBF}}{\text{MTBF} + \boxed{\text{MTTR}}}$$

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Today’s goal

Provide a method to **reduce MTTR in order to increase availability**

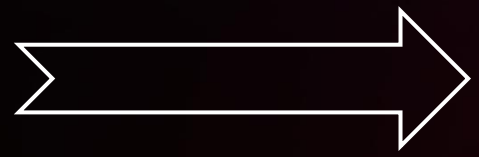
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Availability architecting method

1



Architect for high availability



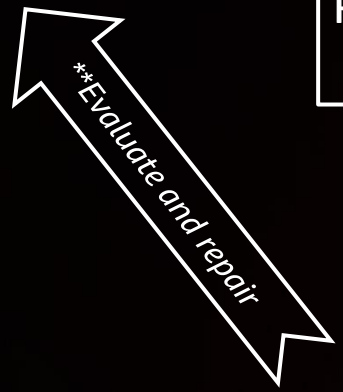
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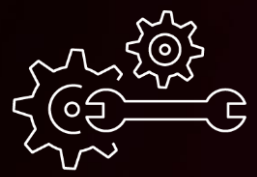
Identify detection points

Provide a method to **reduce MTTR in order to increase availability**





3



Chaos engineering

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1. Architect for high availability

2. Identify detection points

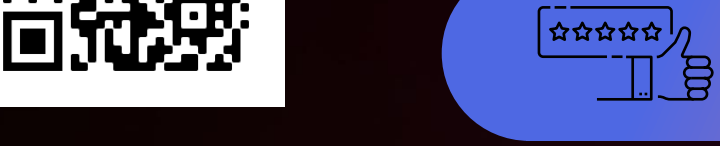
3. Chaos engineering

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Thank you!

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