



Prototyping and Cloud Engineering



Financial Services Industry

# OPA on AWS

## Provision AWS Resources and Resource Binding

FSI PACE

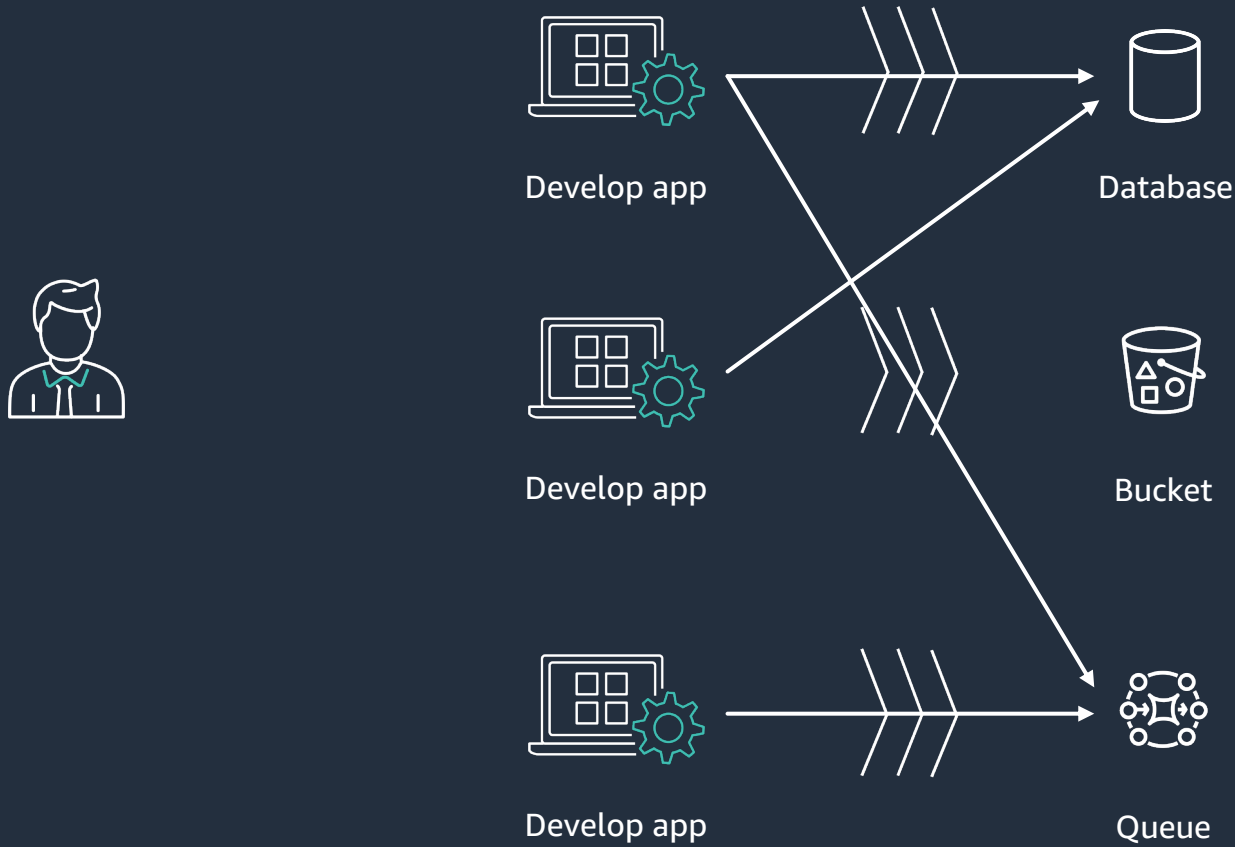
Platform Engineering Team

[fsi-pace-pe@amazon.com](mailto:fsi-pace-pe@amazon.com)

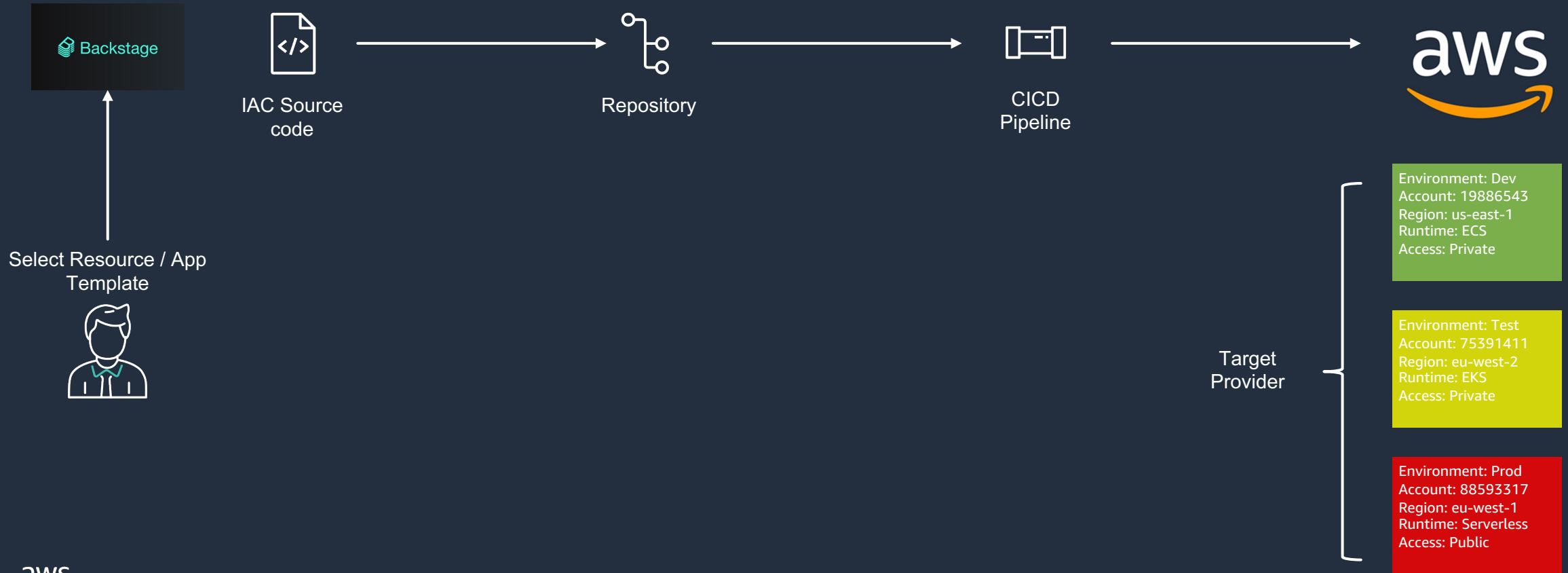


Orchestrate Platform and Applications

# Common Use cases to Provision AWS Resources



# How to Provision an AWS Resource?



# Types of AWS Resources

## Application supported resources

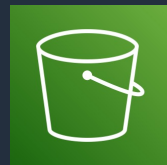
1. Embedded within the **application IAC**
2. Known ahead of time and incorporated with the app **template design**
3. **Private**



Amazon ECR



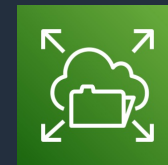
Amazon  
ECS Task



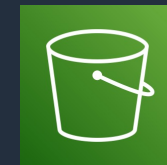
Amazon S3

## Shared resources

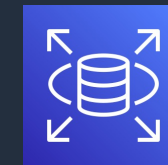
1. Dedicated **resource IAC**
2. Can be used in the **future**
3. **Shared** – across apps within the same environment
4. Support **permissions model** to grant future access to AWS IAM identities / roles



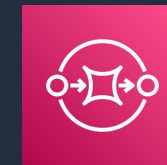
Amazon EFS



Amazon S3

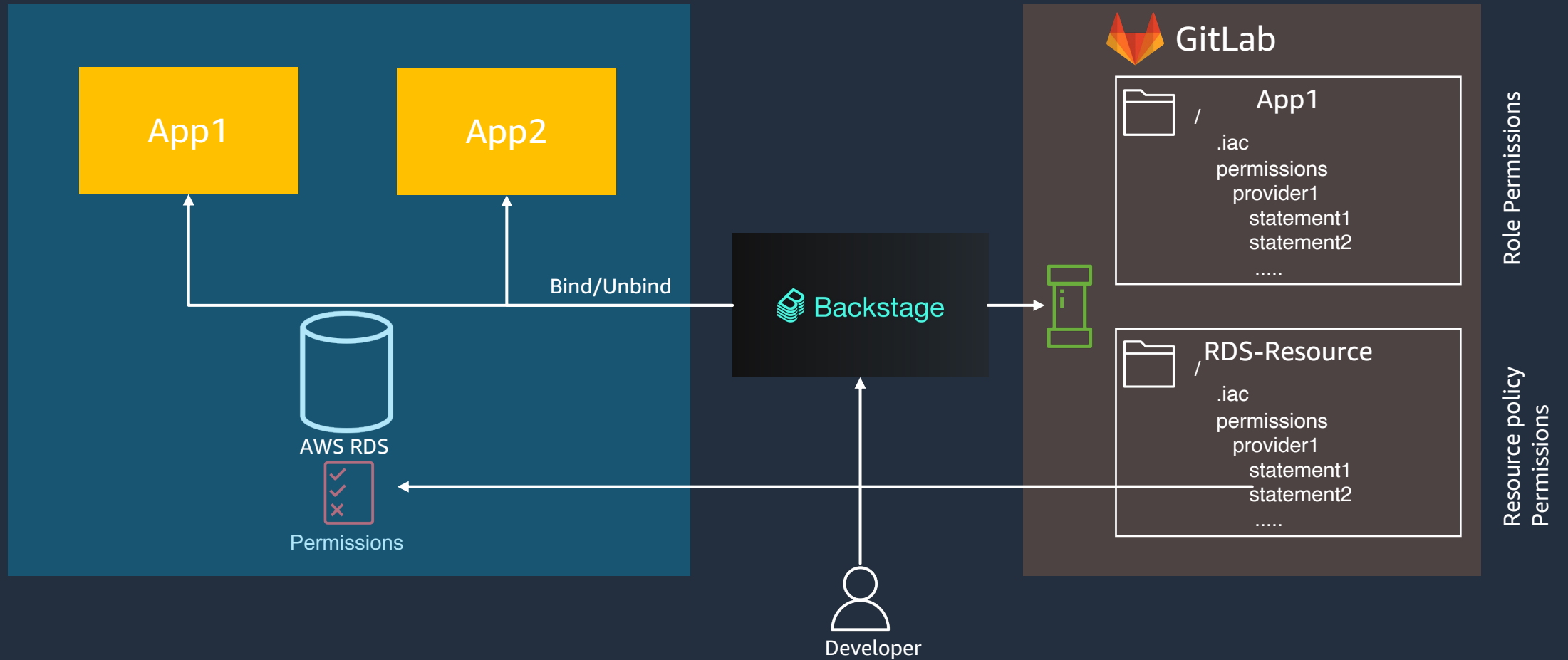


Amazon RDS



Amazon SQS

# Resource Binding Model



# Resource Binding



Bind resource to applications securely.



Apply permissions policies for the source app role.



Apply permissions policies for the resource policy (if applied).



Capture all changes through policy statements preserved in the source code.



Leverage “require approval” for sensitive environments.



Leverage RBAC to control access to Bind/Unbind feature.

# Demo





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SERVICES

# Thank you!



Orchestrate Platform and Applications

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