aws re: Invent



WIN317

Demystifying identity, AuthN, and AuthZ for .NET apps on AWS

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Agenda

User authentication fundamentals

How to approach .NET authentication on AWS

Learn how customers are implementing identity management for their serverless apps using

- Amazon Cognito user pools
- Amazon Cognito identity pools
- Application Load Balancers
- Amazon API Gateway
- AWS Lambda
- AWS Identity and Access Management (IAM)

Principle

Federate everything

Every. Single. App.

Single sign-on standards OpenID Connect and OAuth SAML

Make it easy to do the right thing ... and difficult to do it wrong

Multiple approaches/choices

No-infrastructure compute

- Lambda (serverless)
- AWS Fargate (containers on Amazon ECS)

No-infrastructure storage

- Amazon S3
- Amazon DynamoDB

Identity management (authentication)

- Amazon Cognito
- Third-party IdP
- Build your own . . .

Amazon Cognito

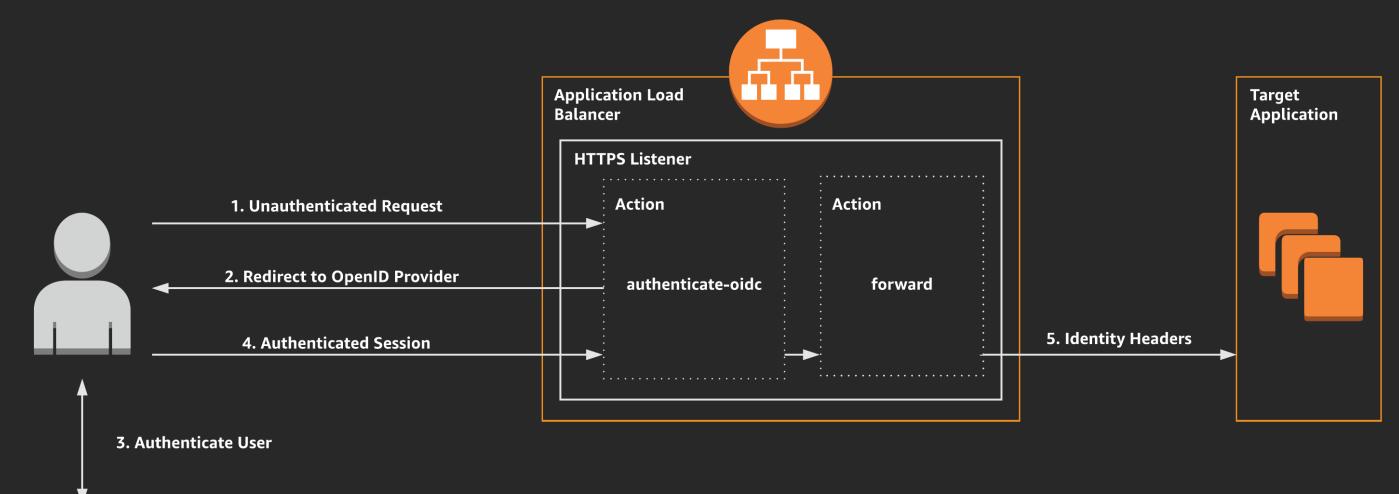
Use API Gateway w/integrated Amazon Cognito authorization

- Pros: Can vary authorization by request type (GET/PUT/POST/etc.)
- Cons: Need additional service, complicates service-to-service auth

Use ALB Amazon Cognito authorization feature

- Pros: It's a feature of ALB
- Cons: Authorization is per-path only (e.g., per microservice)

ALB authentication



OpenID Provider

Thank you!

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