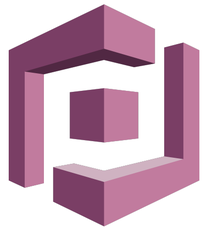
# Cognito Primer

Cheng-Hao Ho

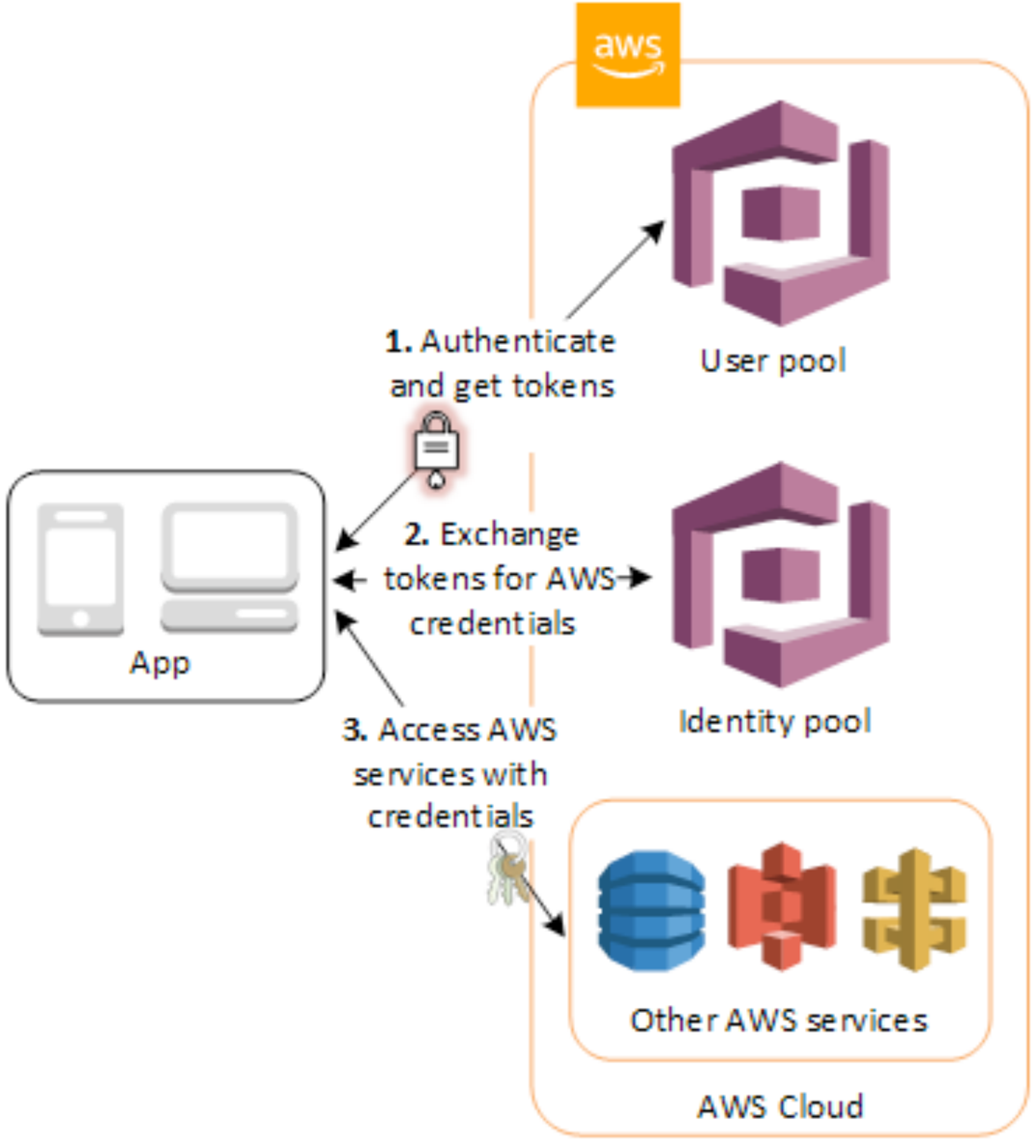
# What?



Authentication, Authorization, and User Management

Add Sign-up and Sign-in

Grant your users access to AWS services


aws
User pool
1. Authenticate and get tokens
2. Exchange tokens for AWS credentials
App
Identity pool
3. Access AWS services with credentials
Other AWS services
AWS Cloud

# Components

**User Pools:** a user directory in Amazon Cognito; With a user pool, users can sign in to your application

**Identity Pools:** With an identity pool, your users can obtain temporary AWS credentials to access AWS services

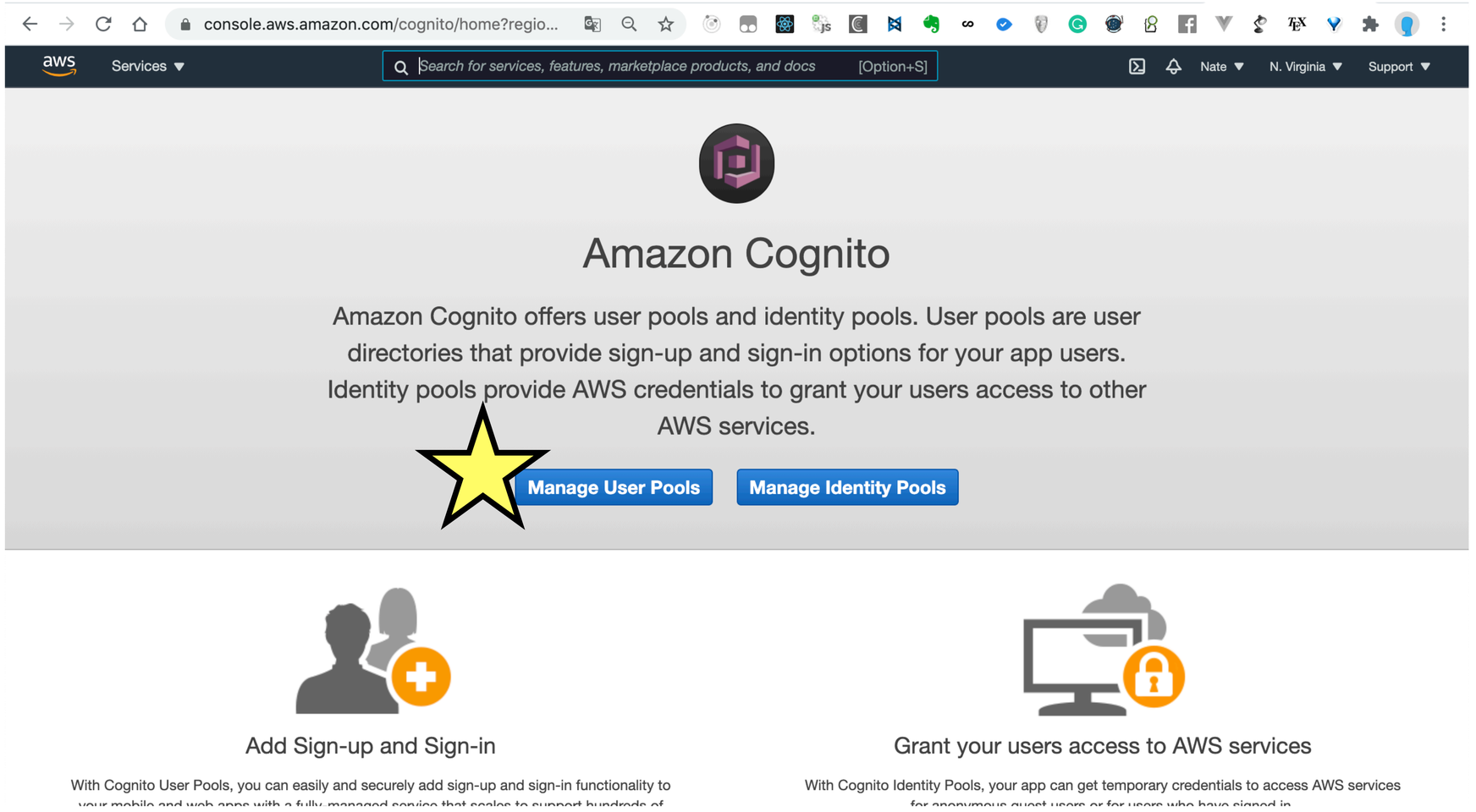
# Sign in with Cognito

Username
/
Password

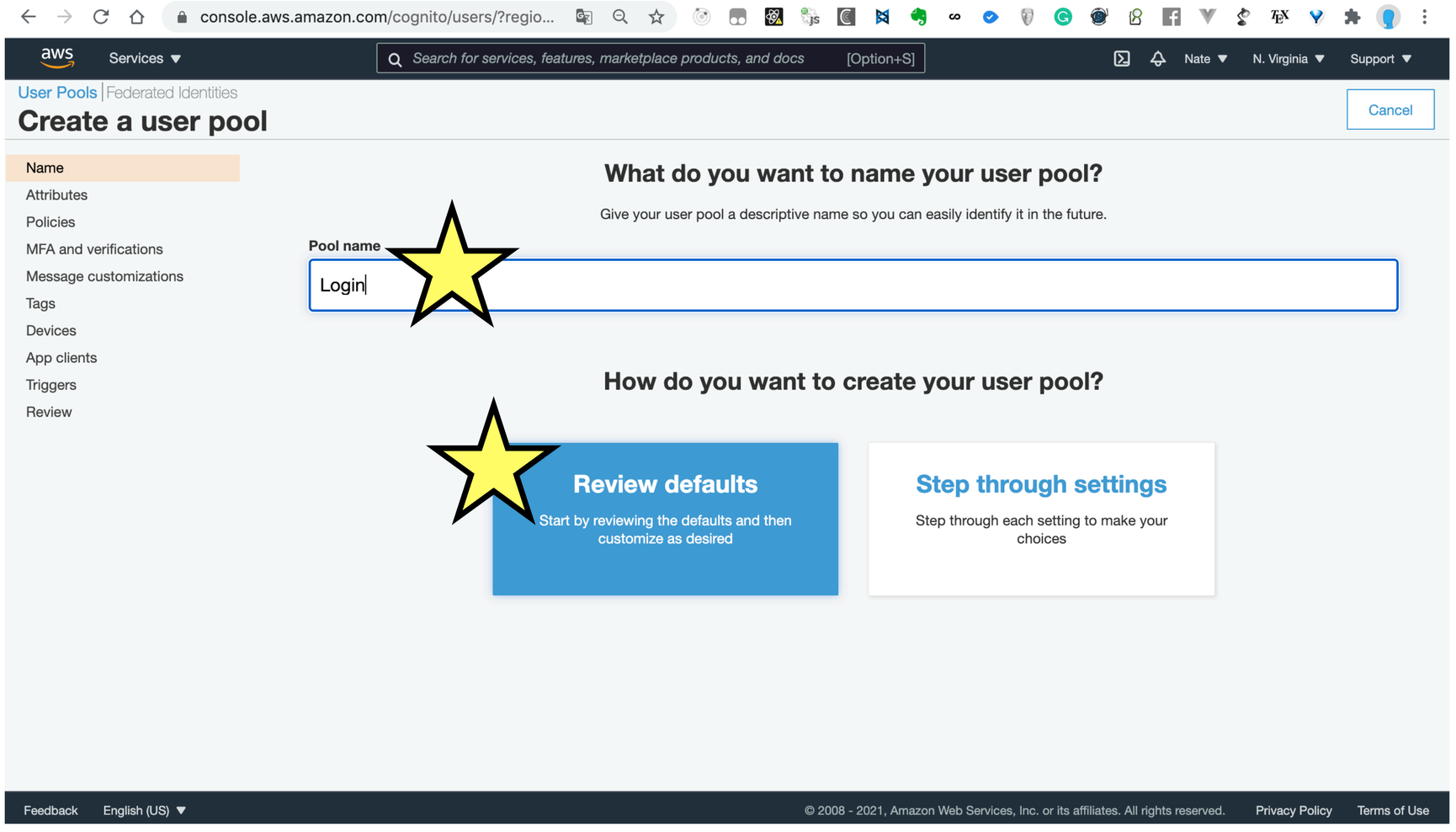
Third Party:

Facebook,
Google,
...

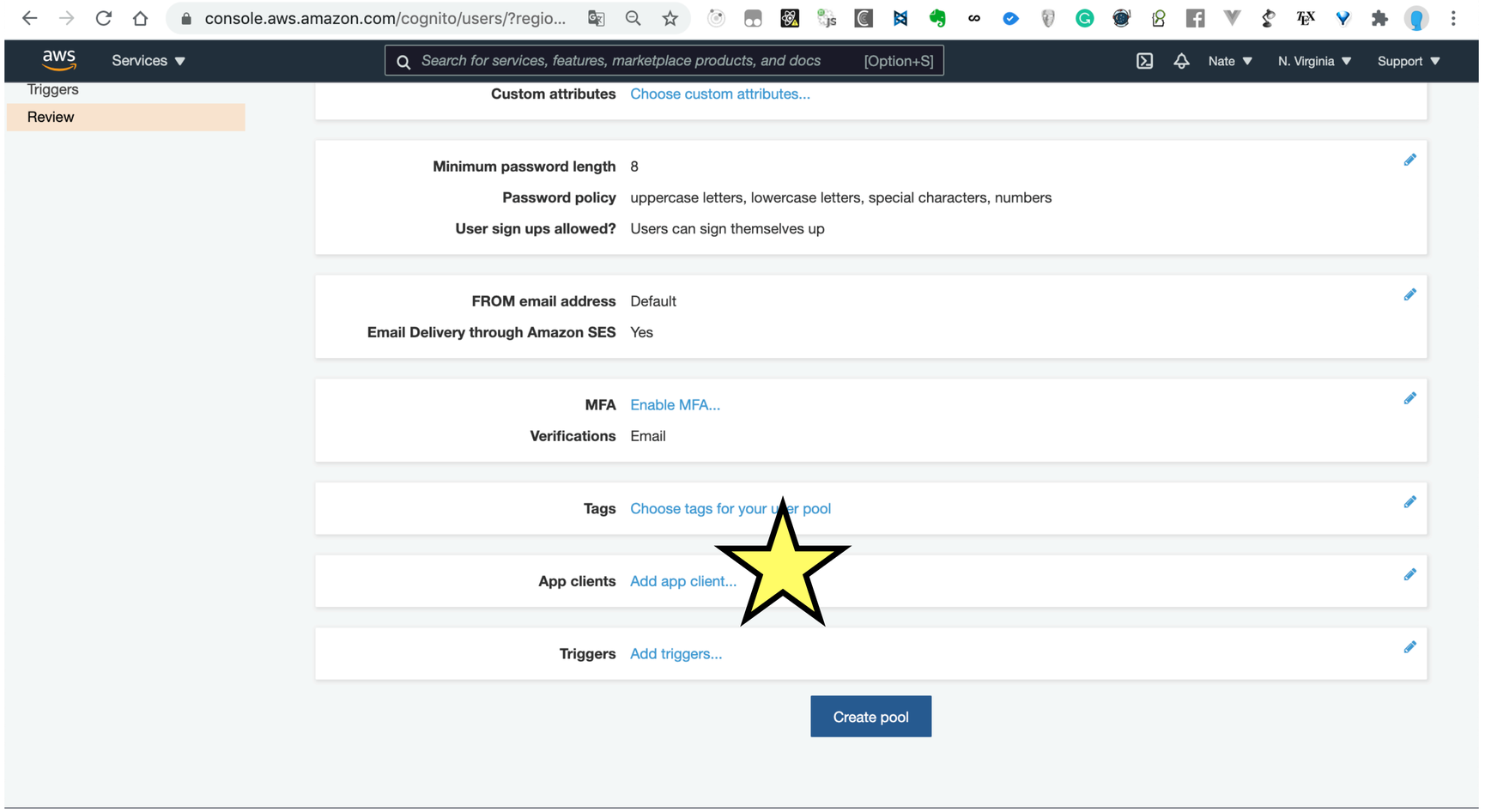
# Create User pool



# Create User pool



# Create Api Client



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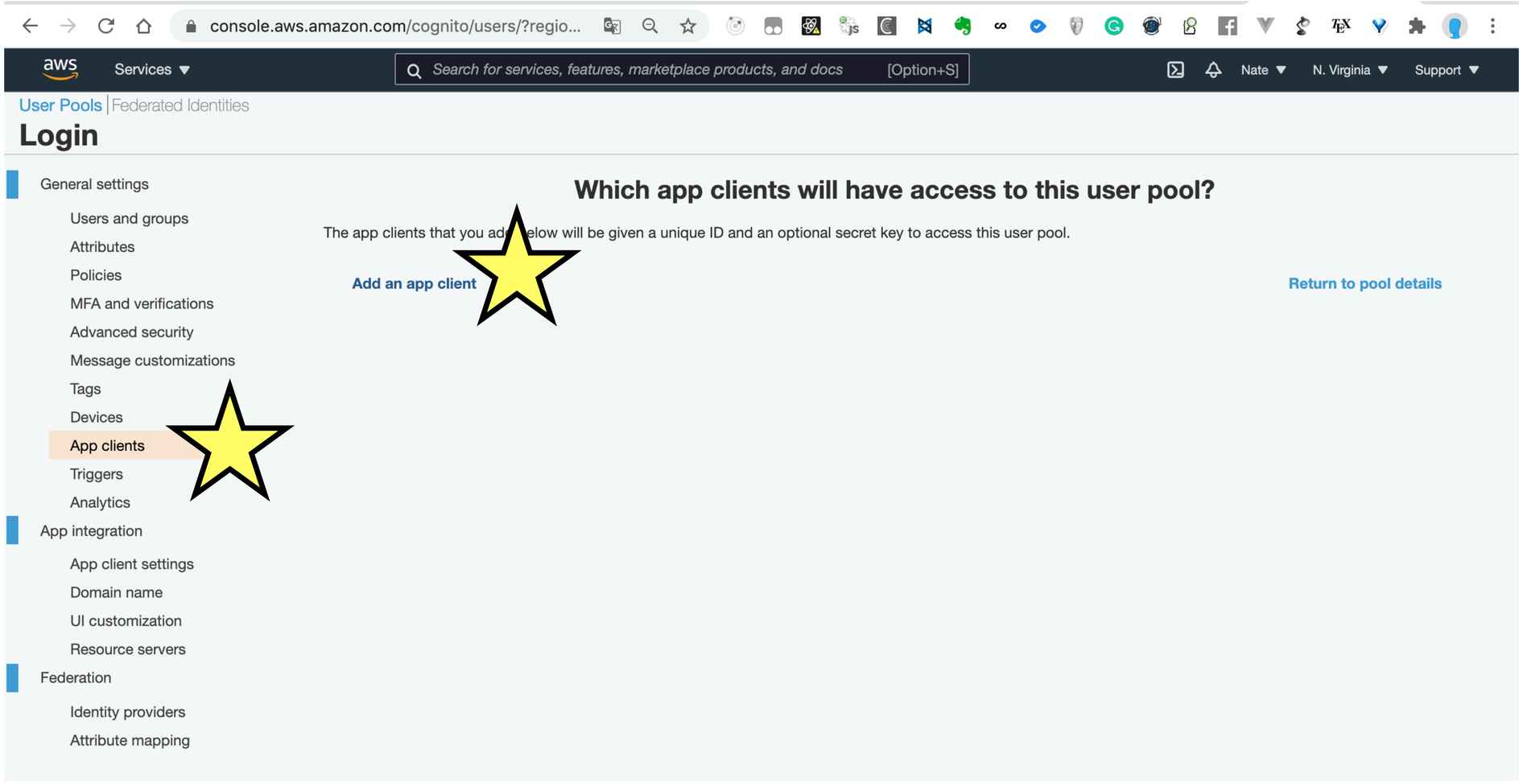

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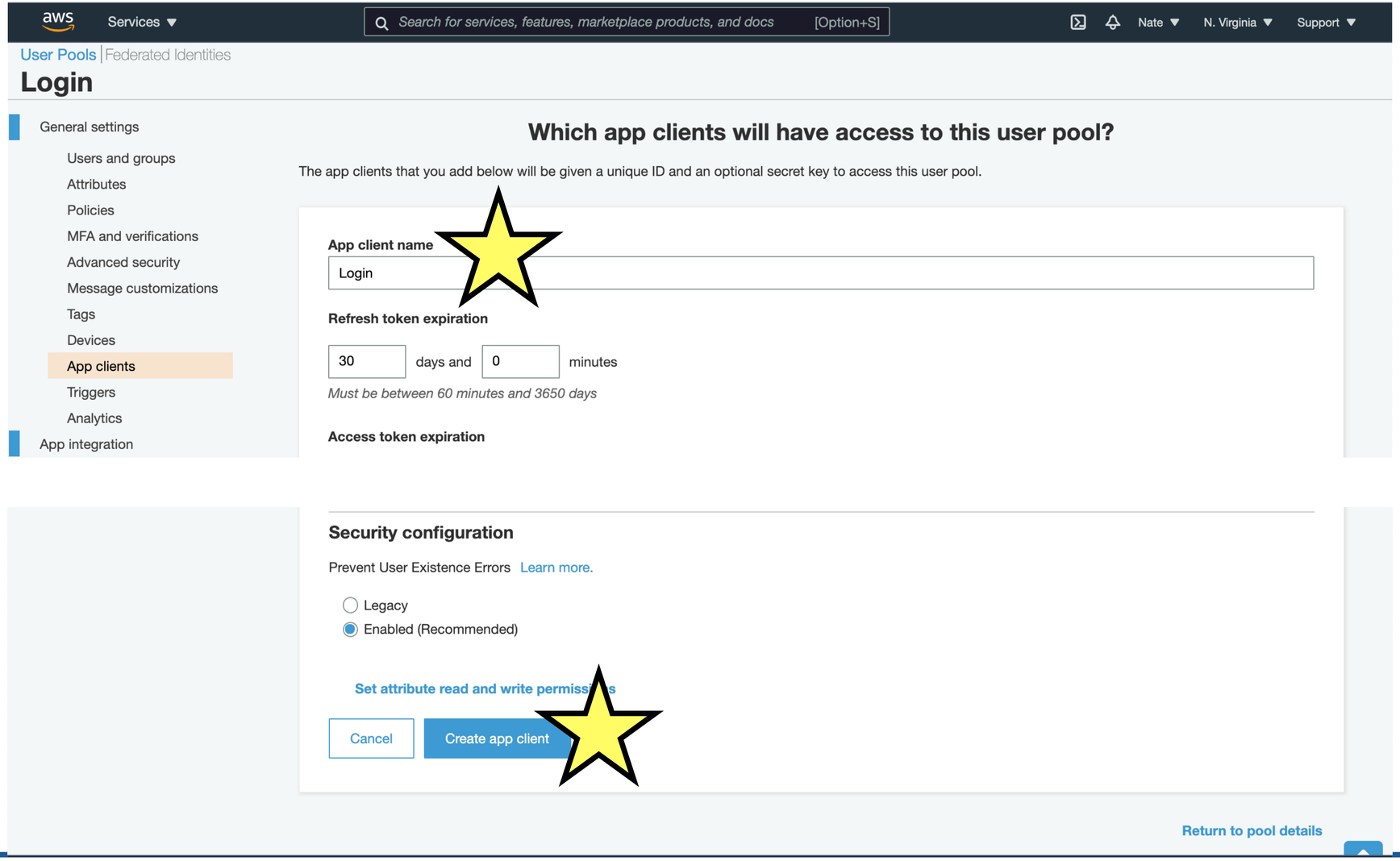

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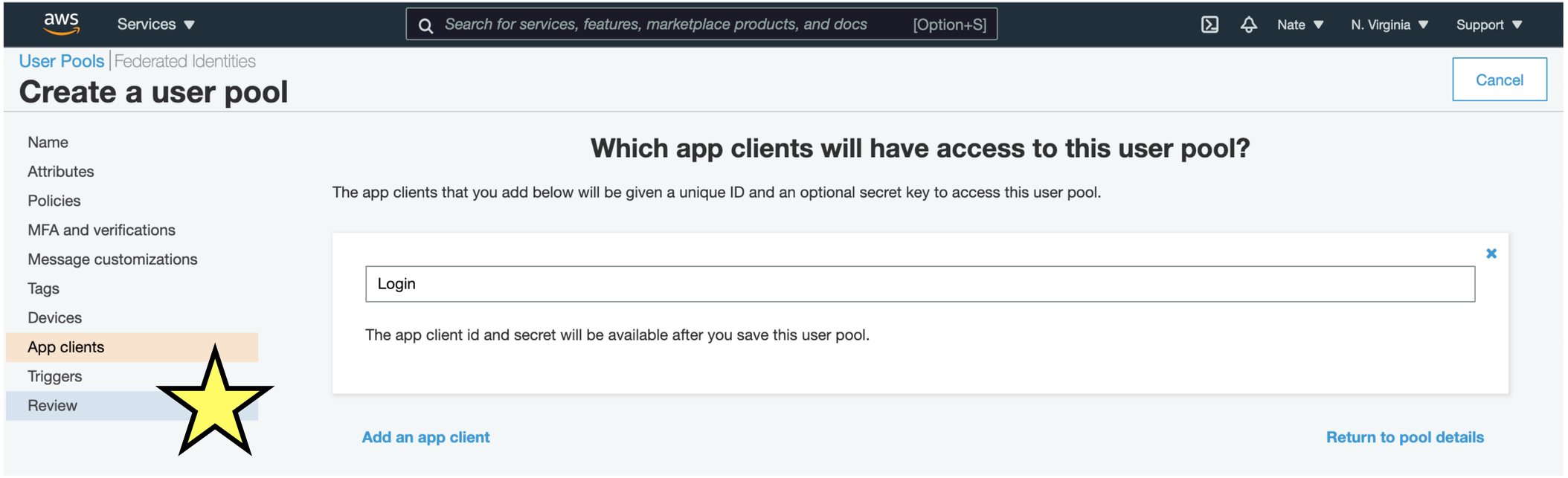

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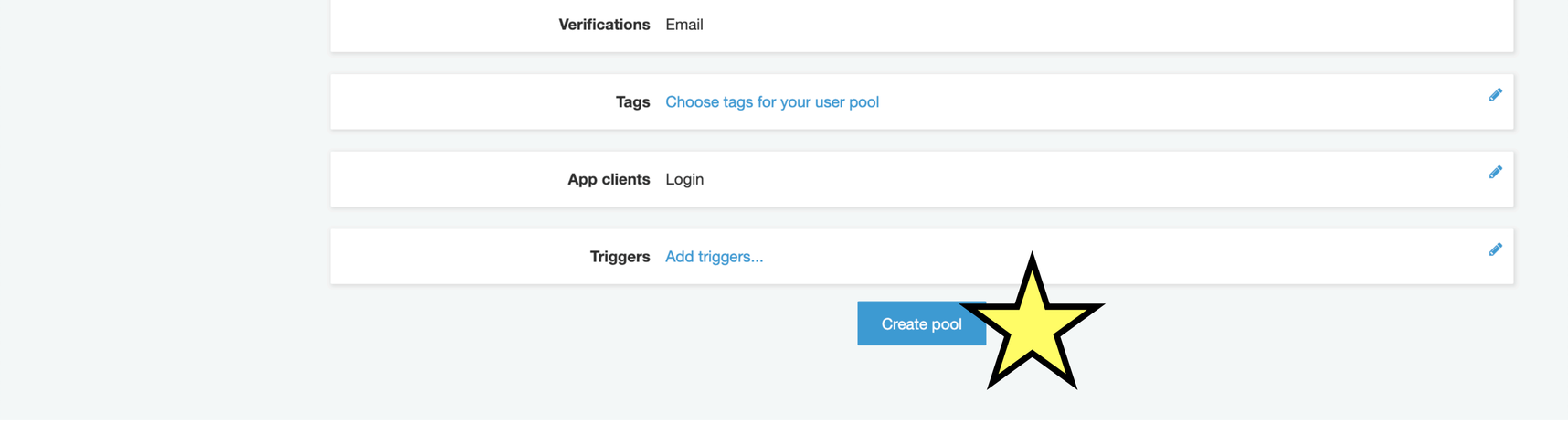
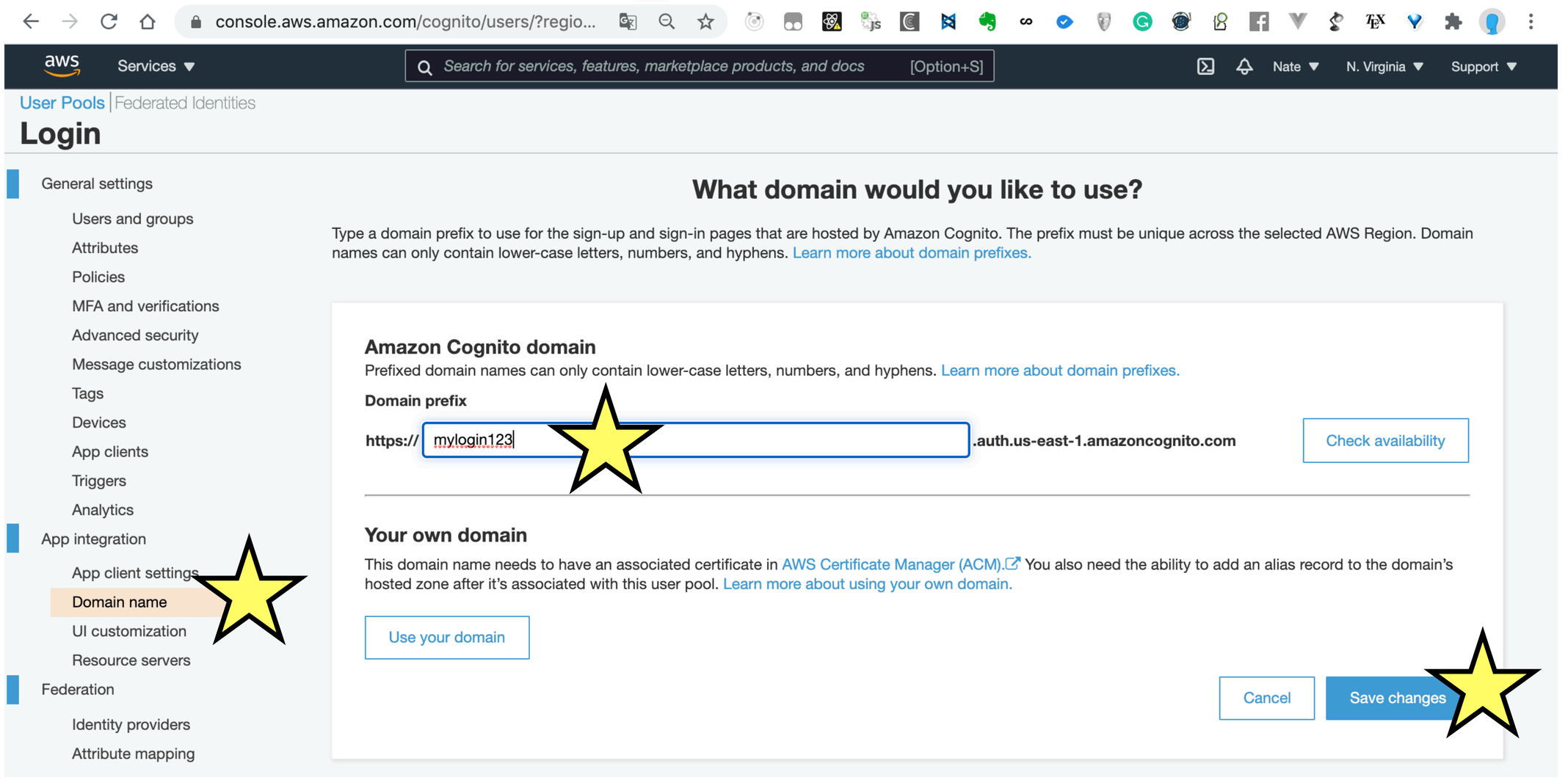
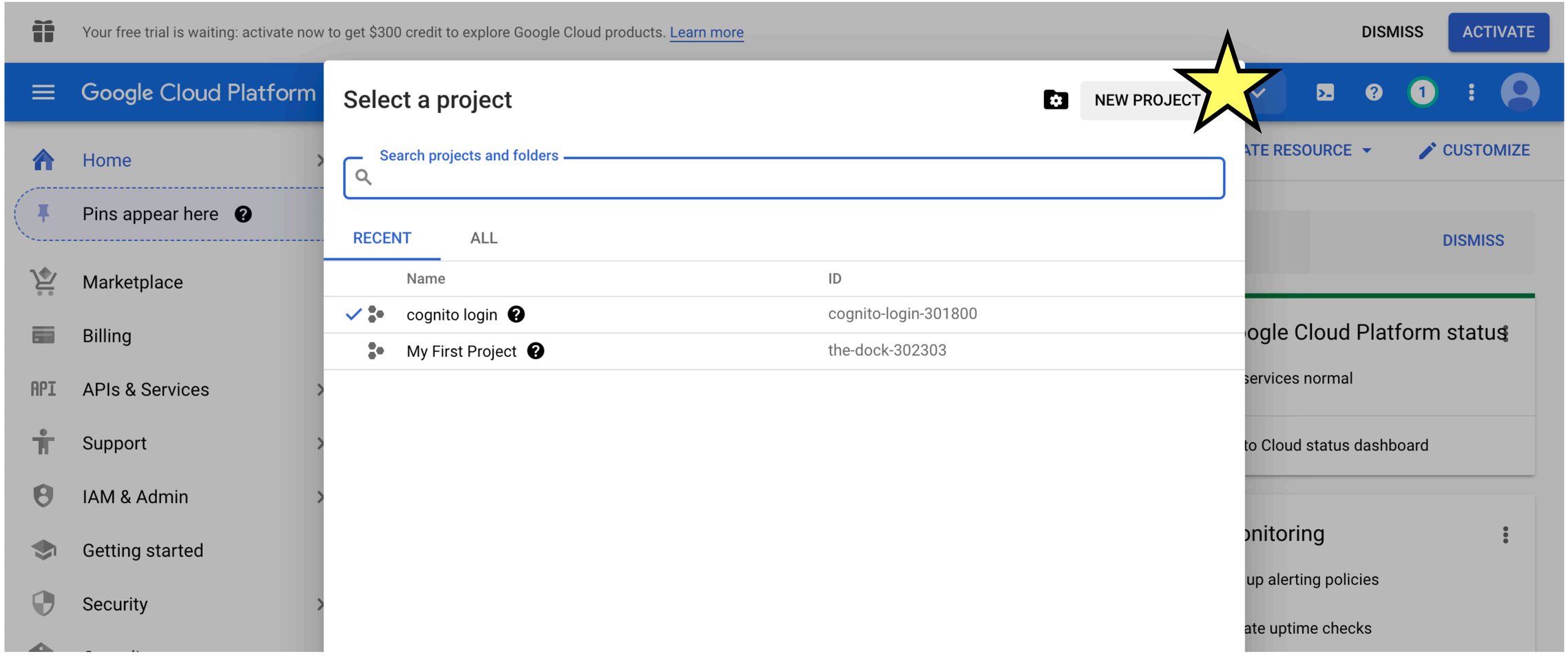


# Get Cognito Domain



# Create Google Project



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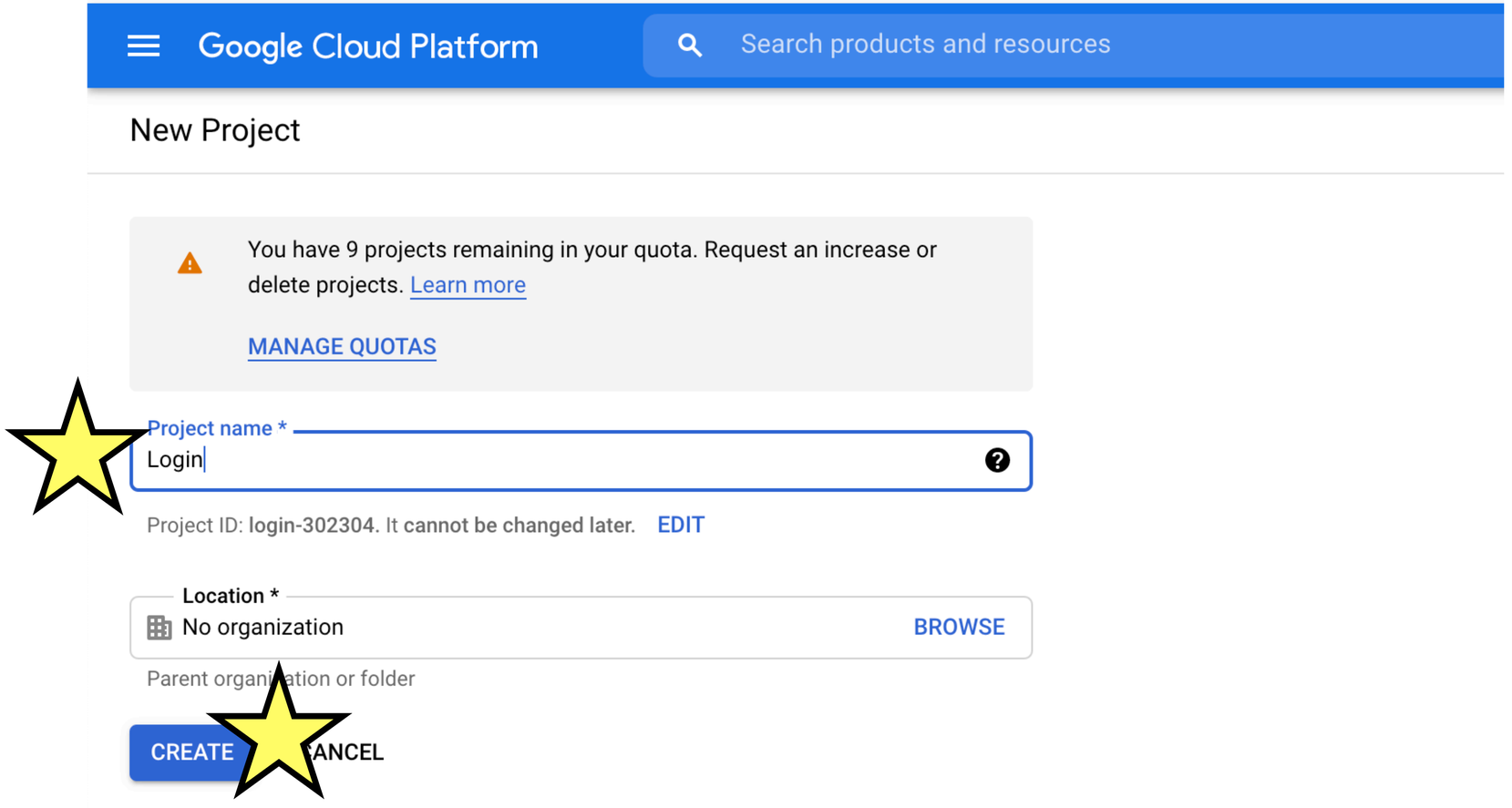
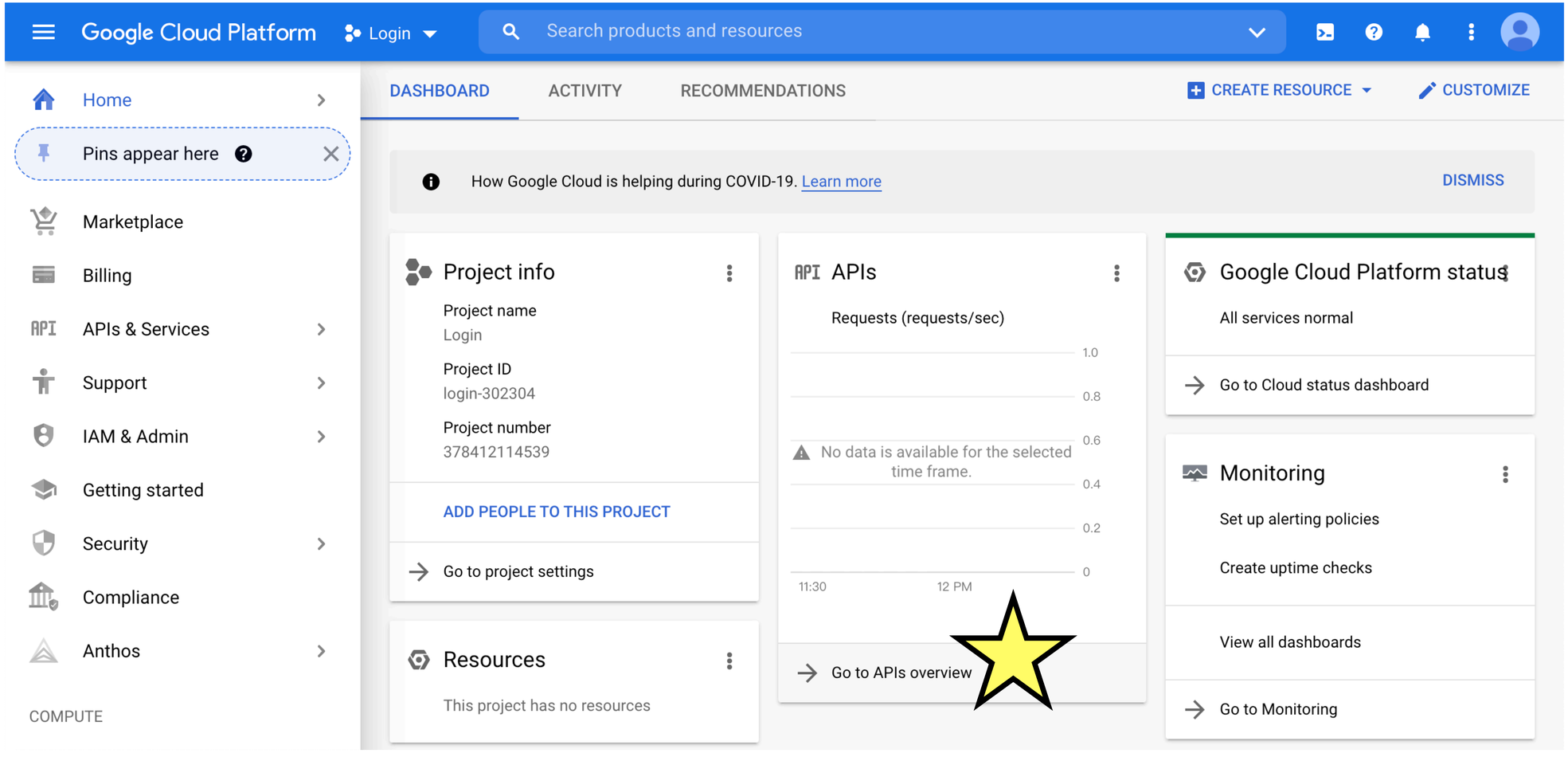


# Create OAuth Client



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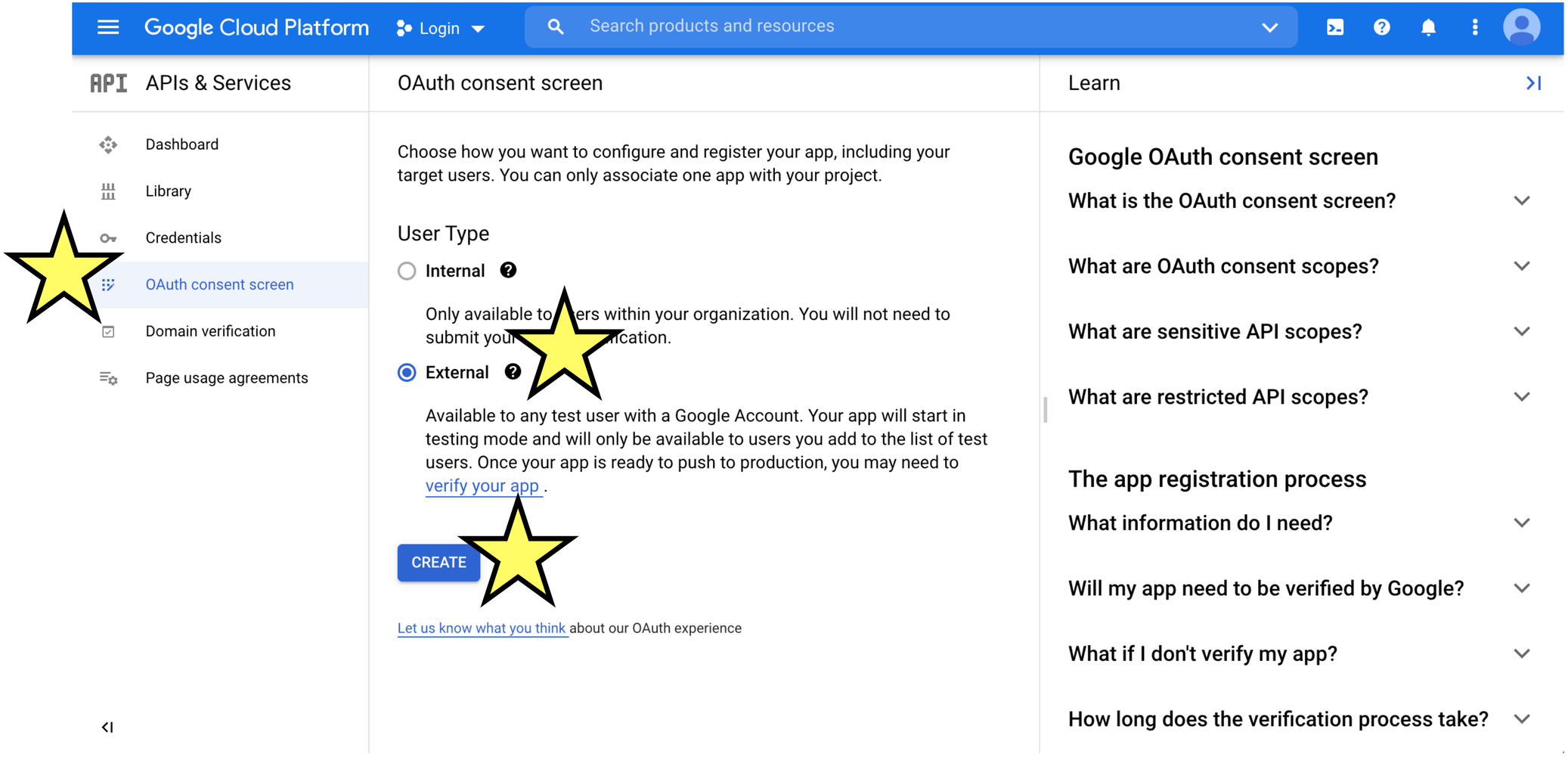

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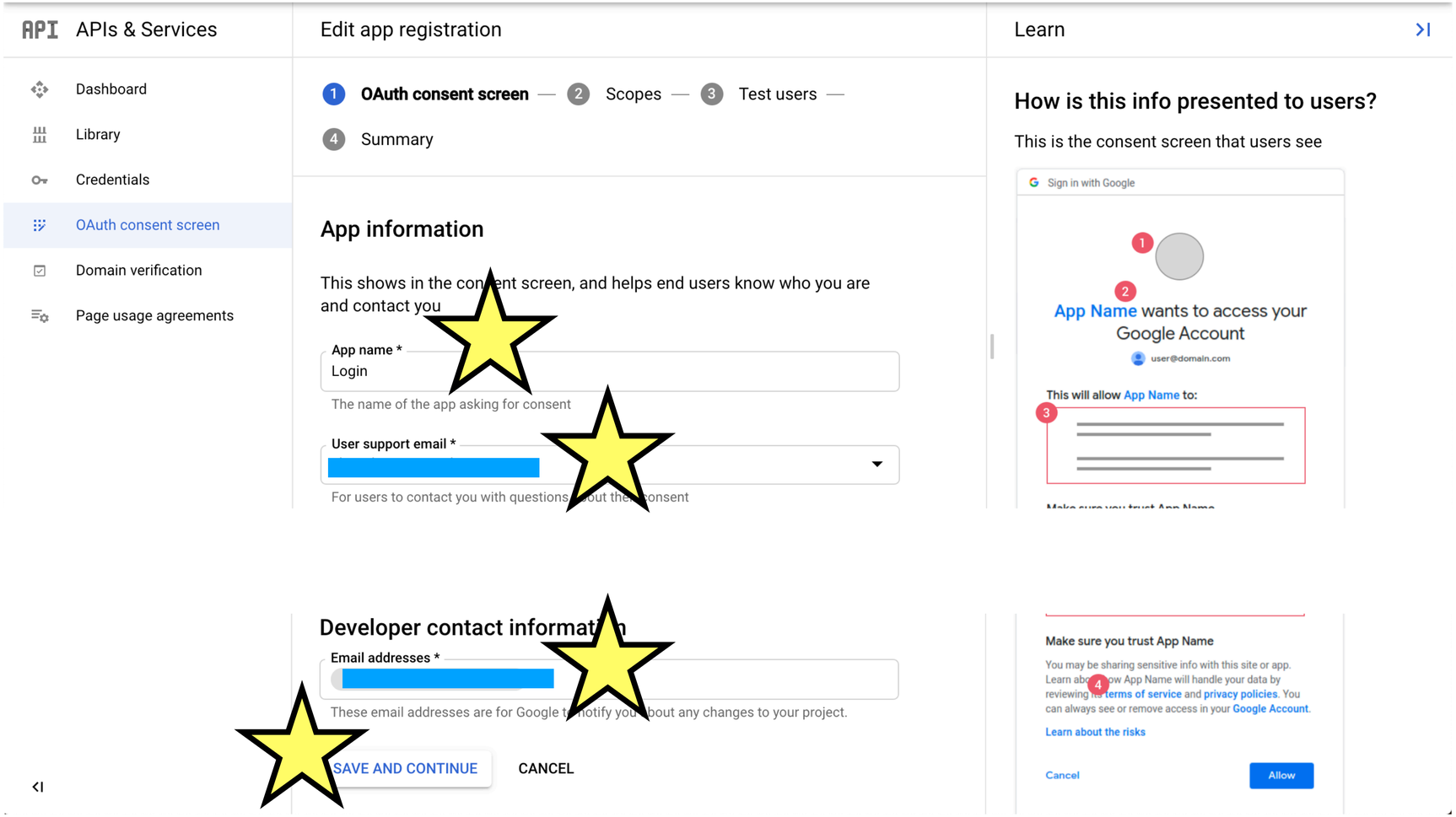

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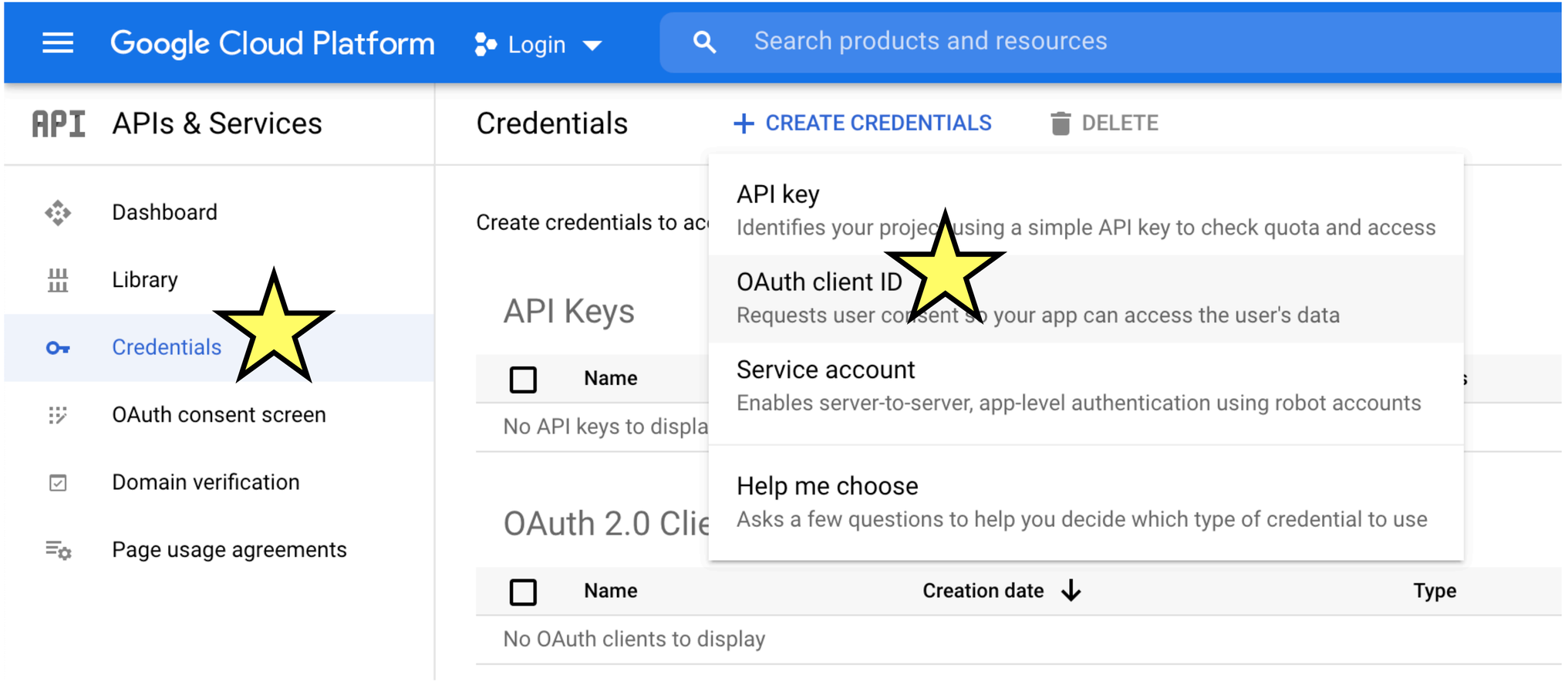

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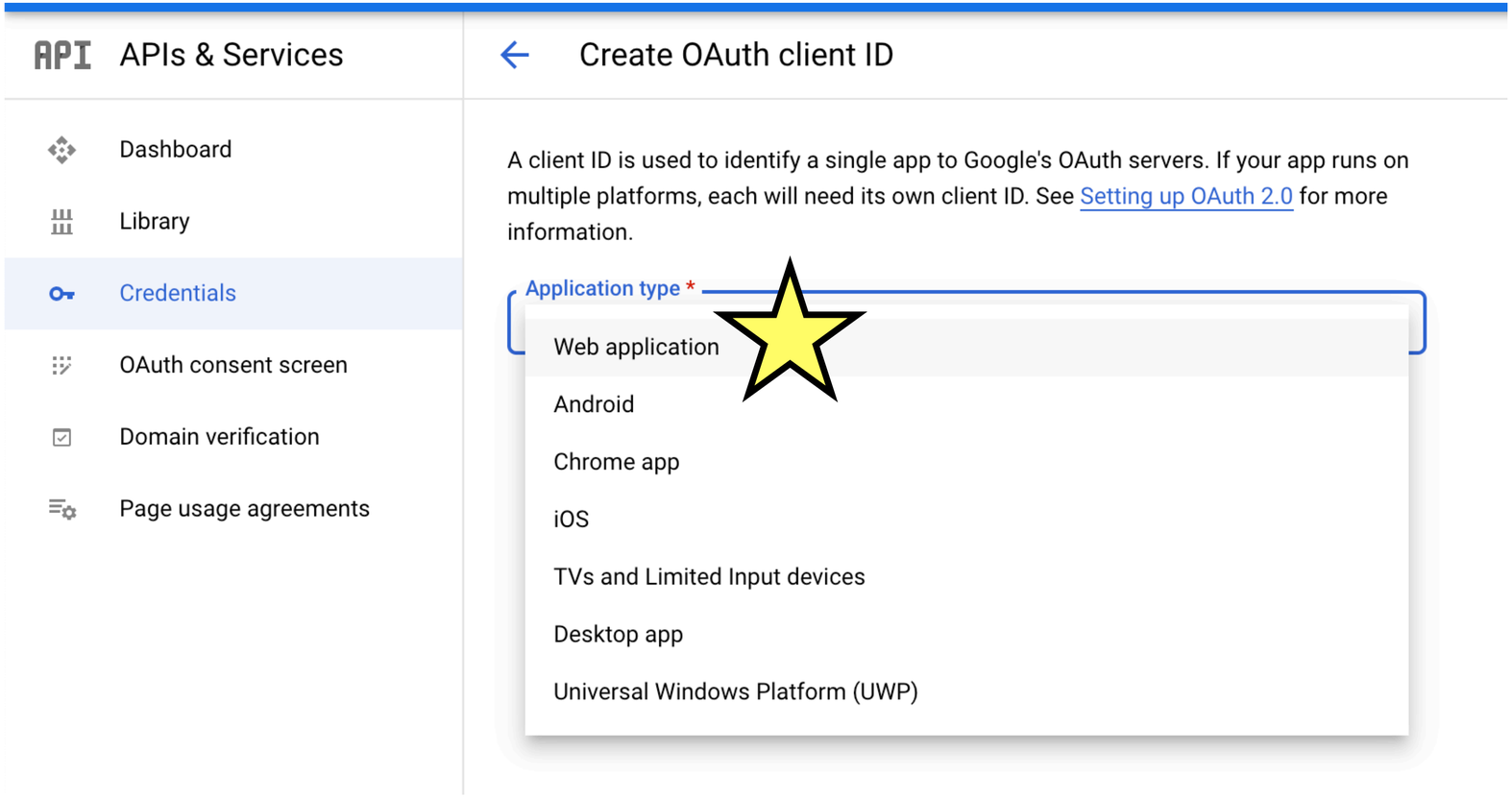

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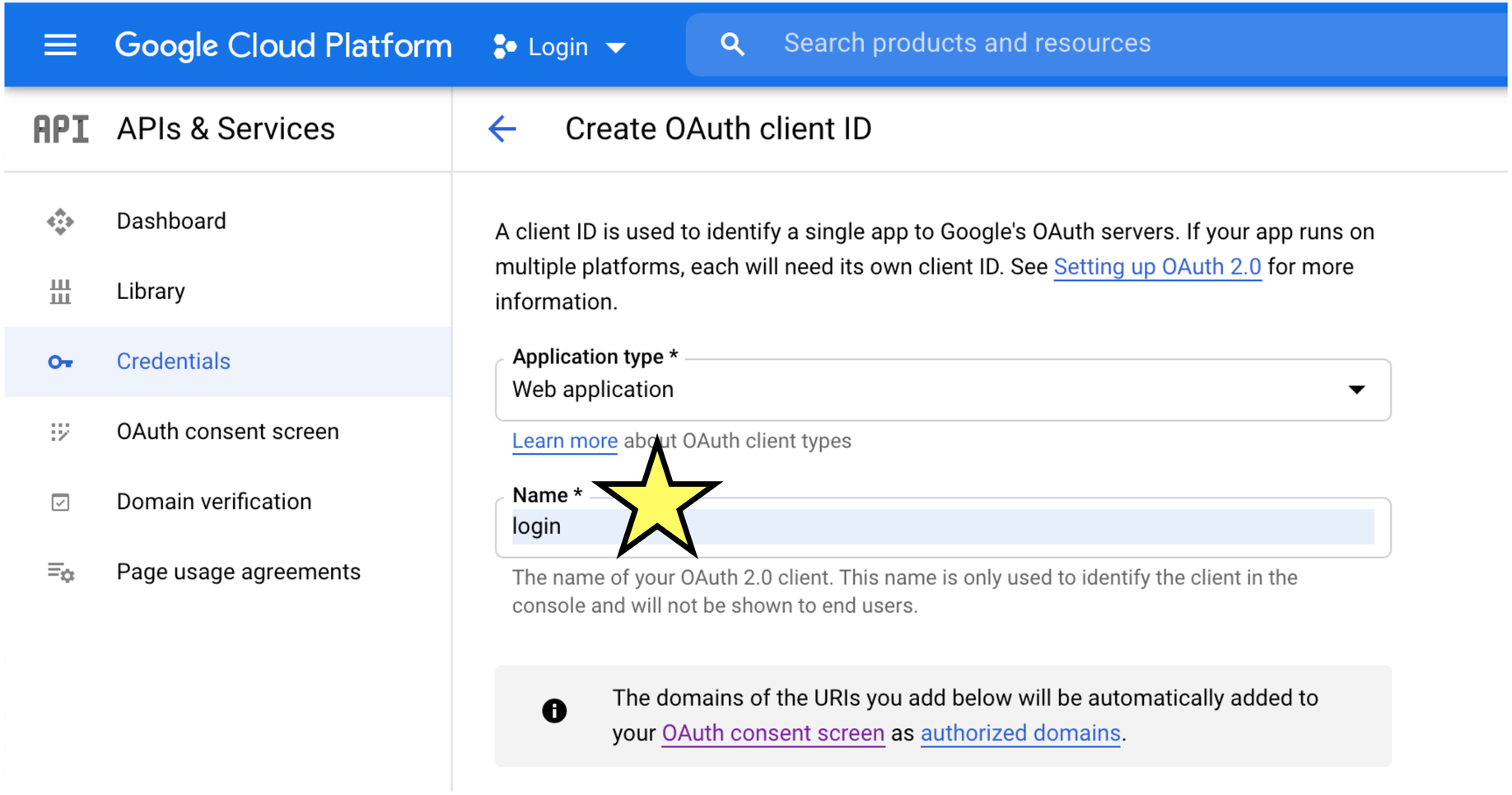

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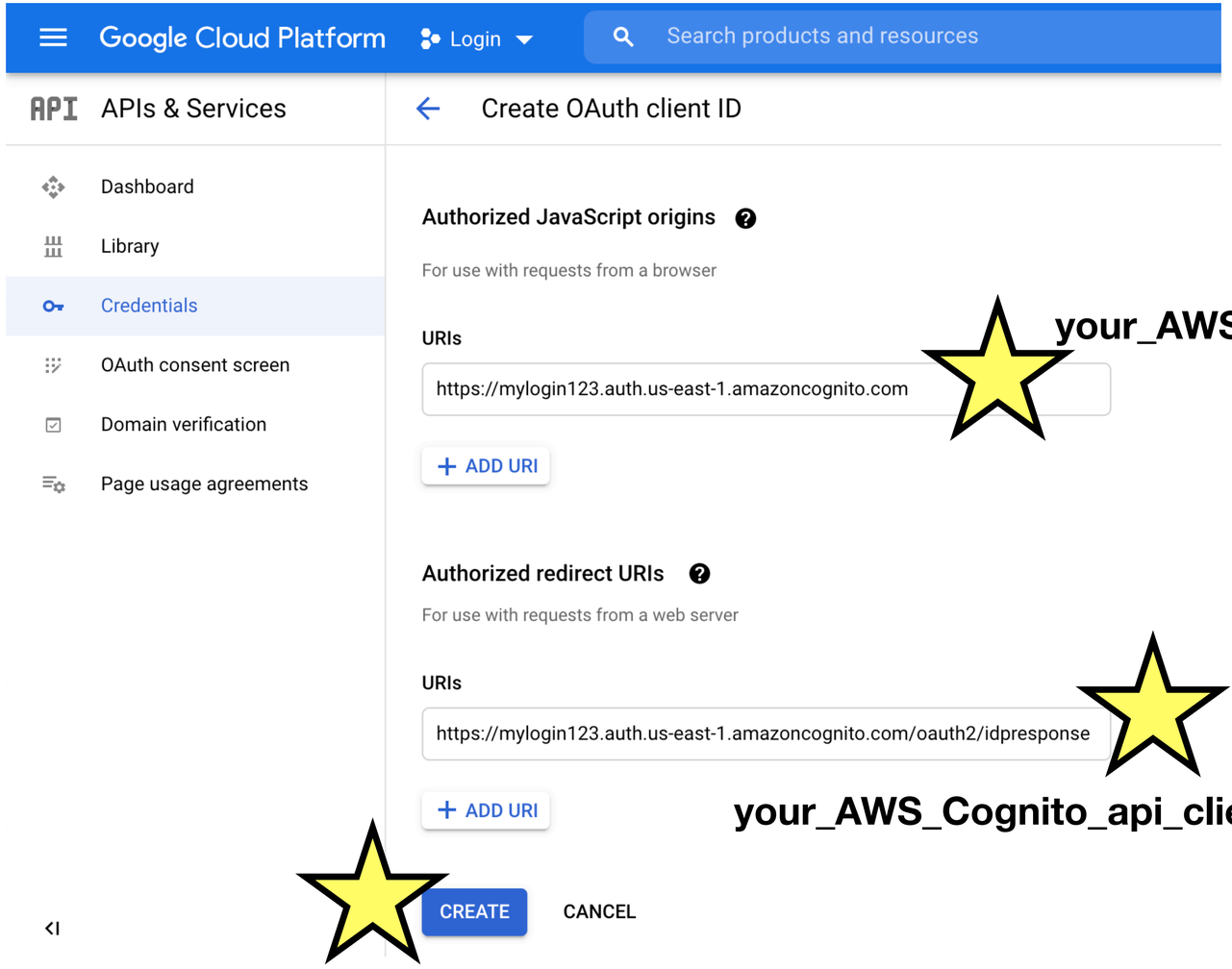

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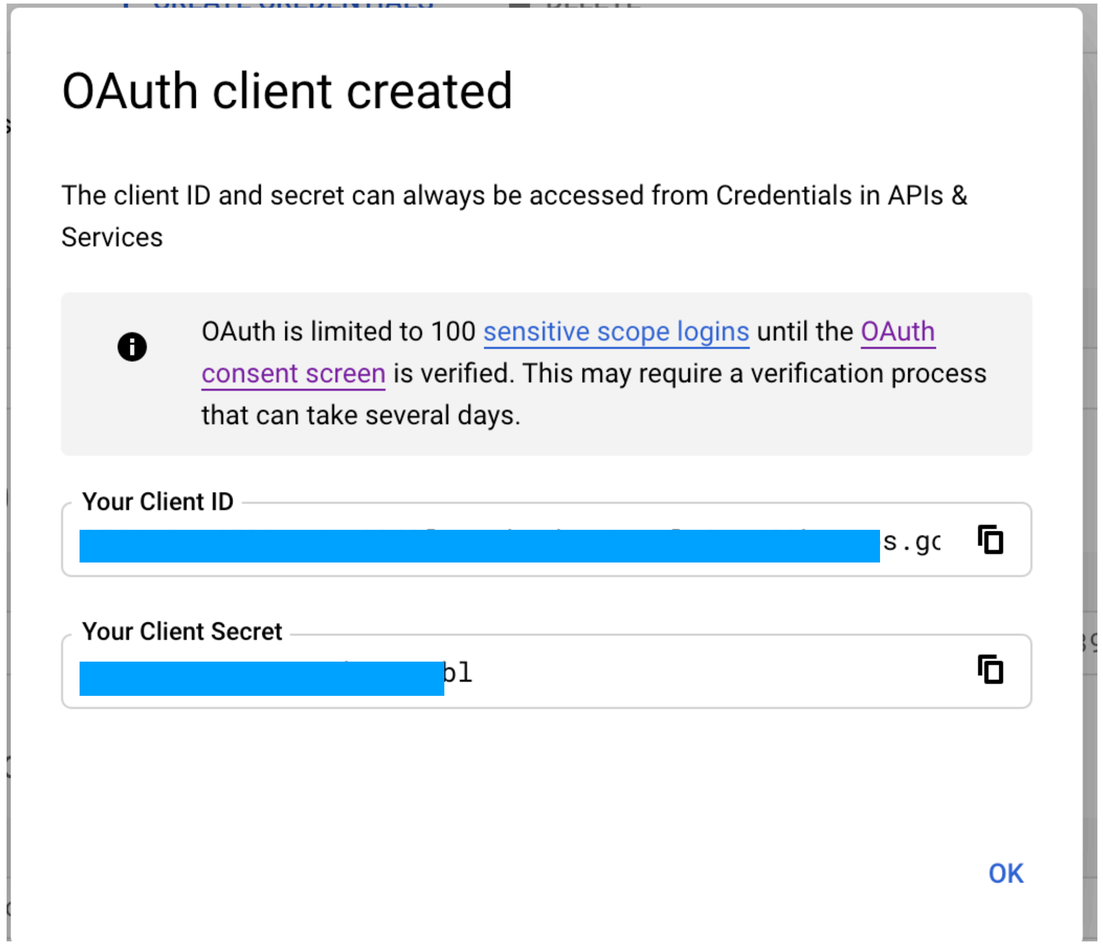
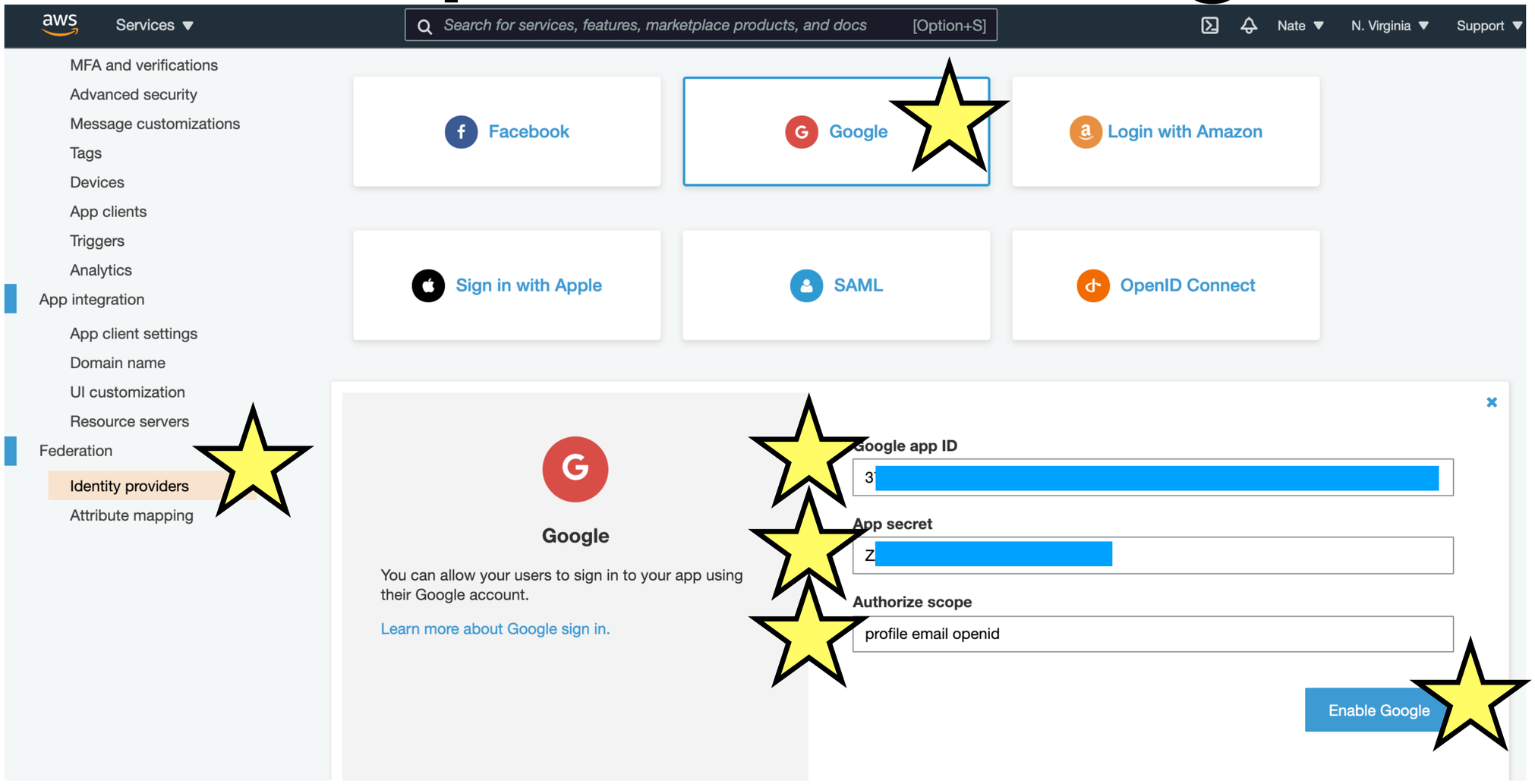


# Set ID provider in Cognito



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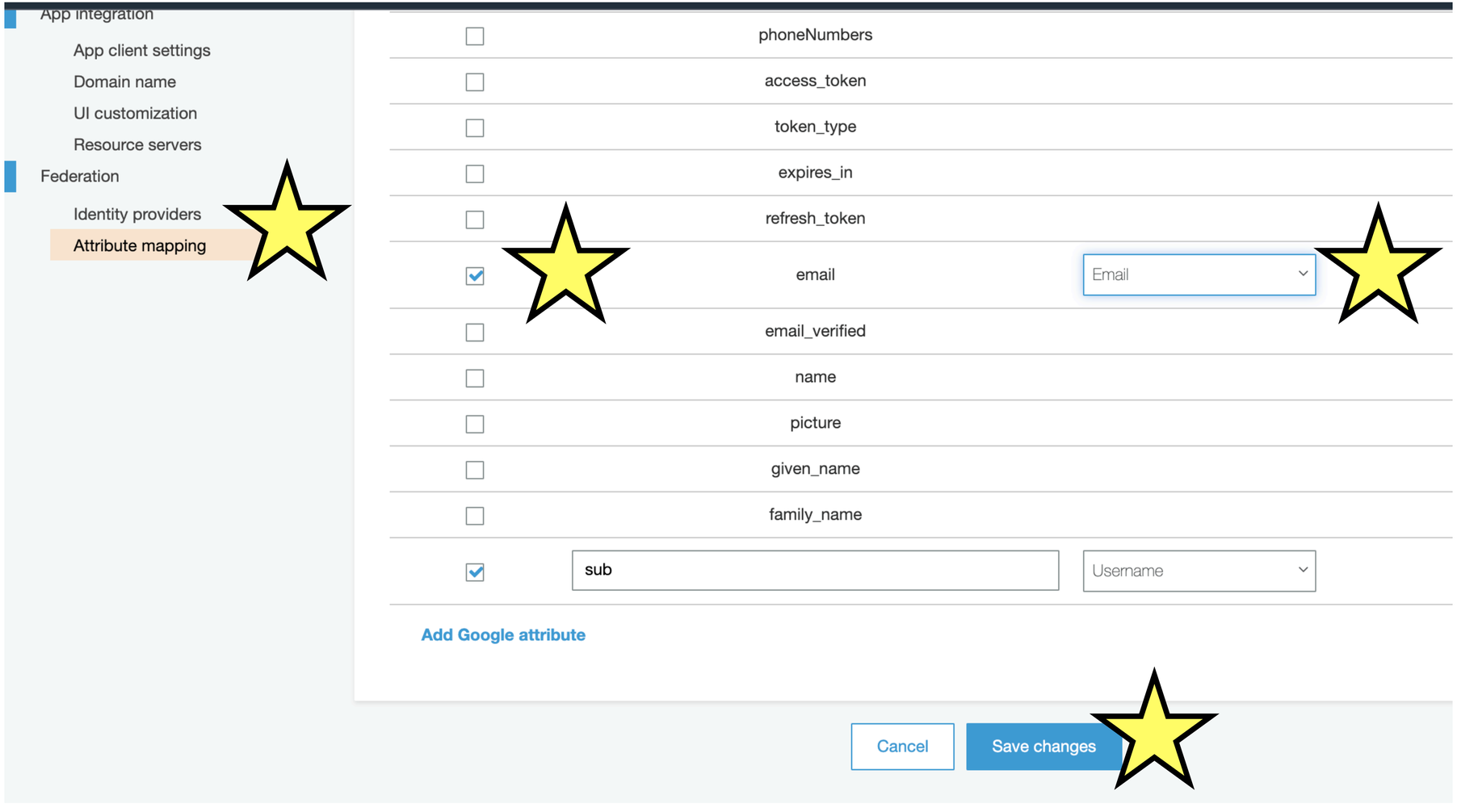

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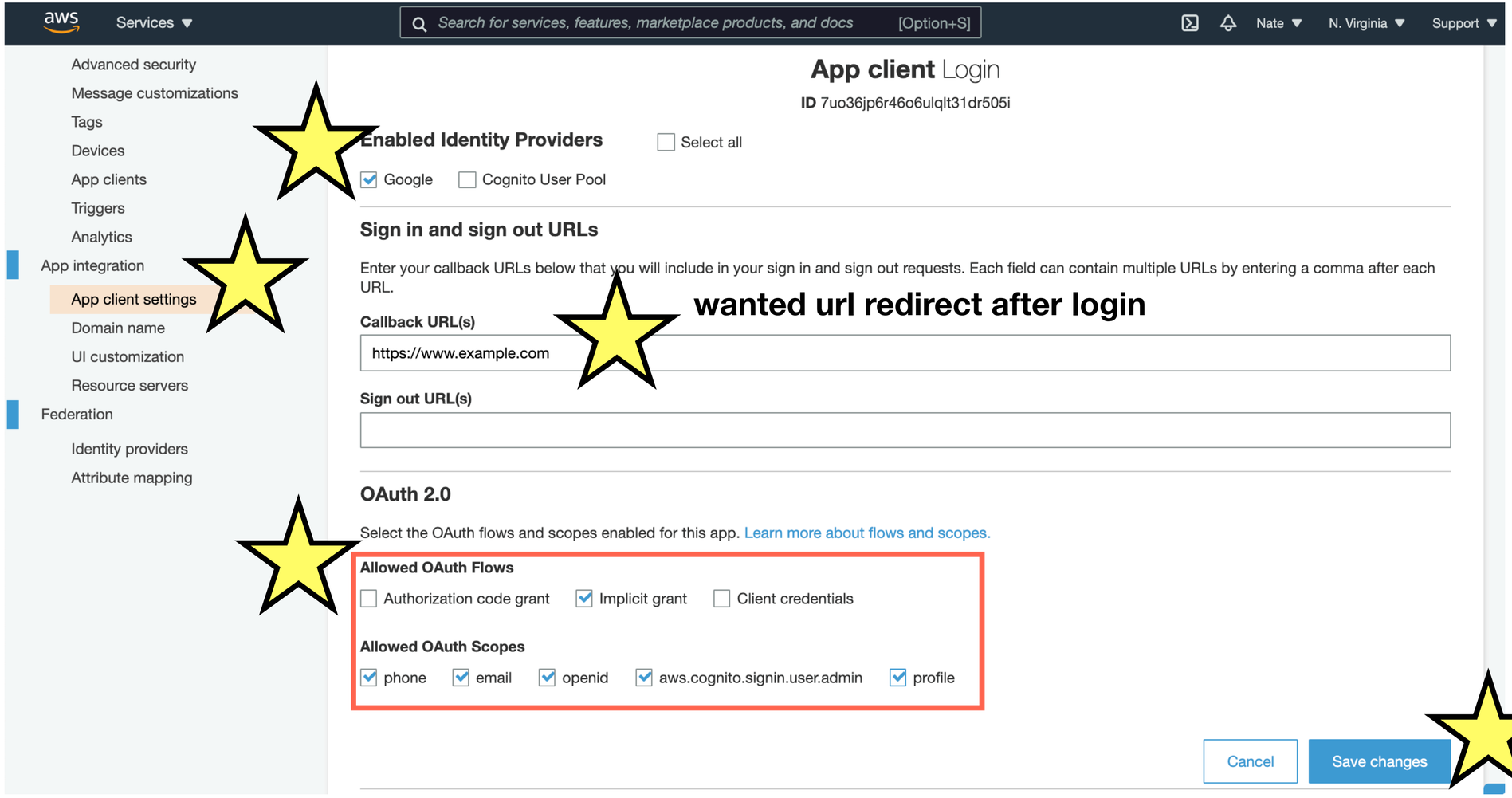
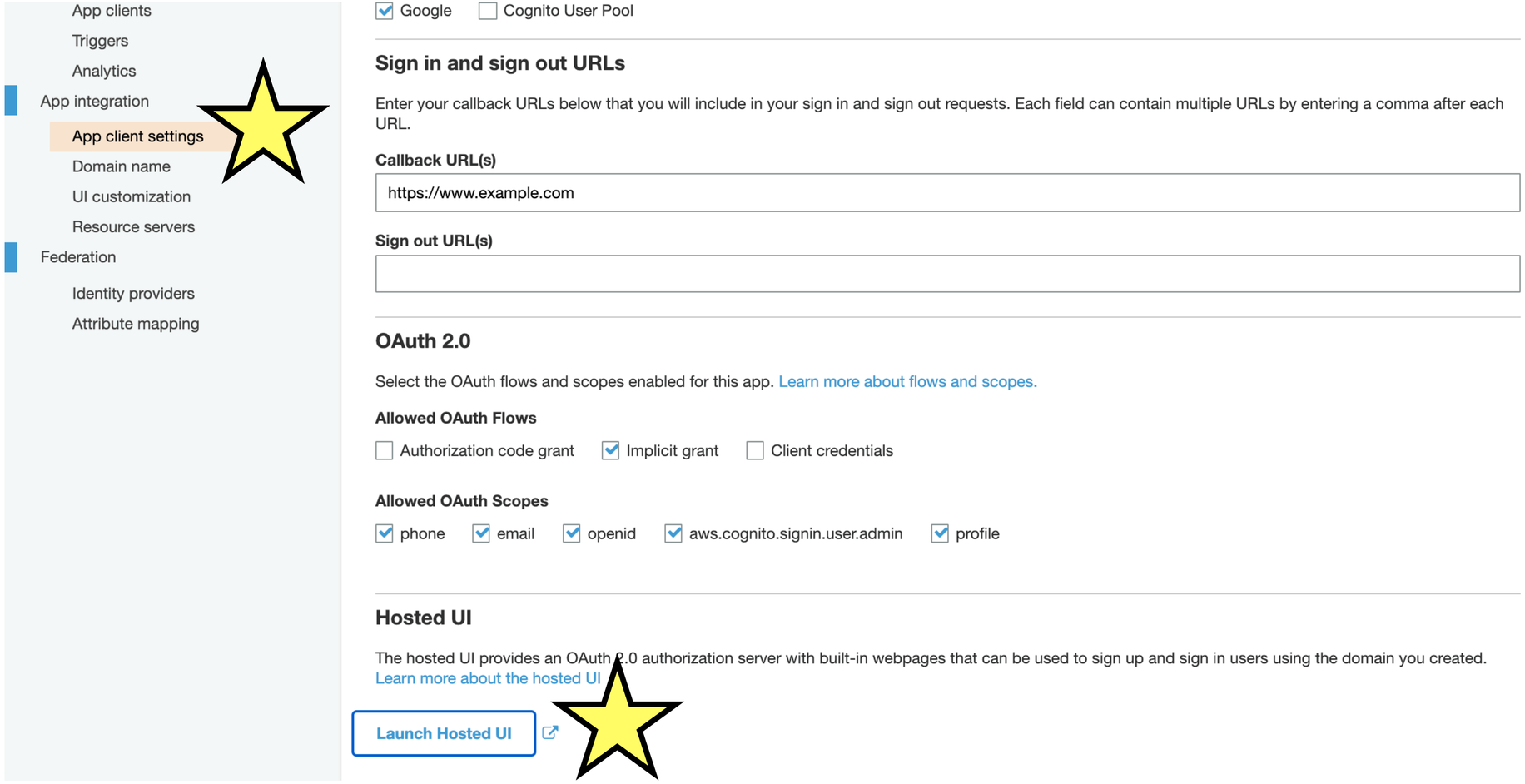


# Login with Google Email



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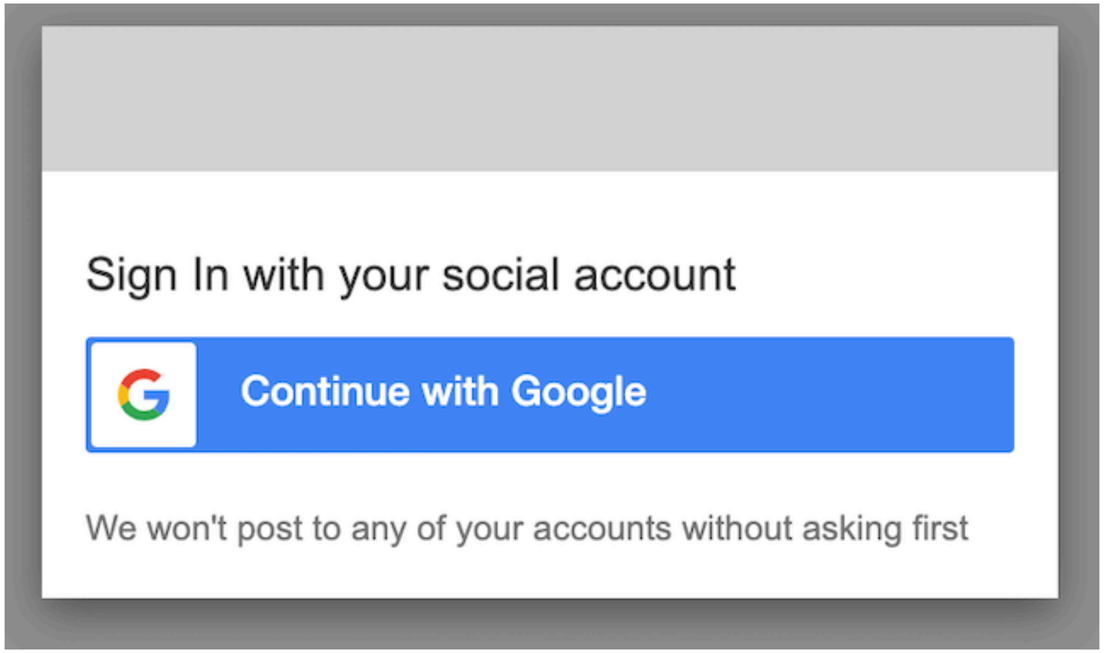
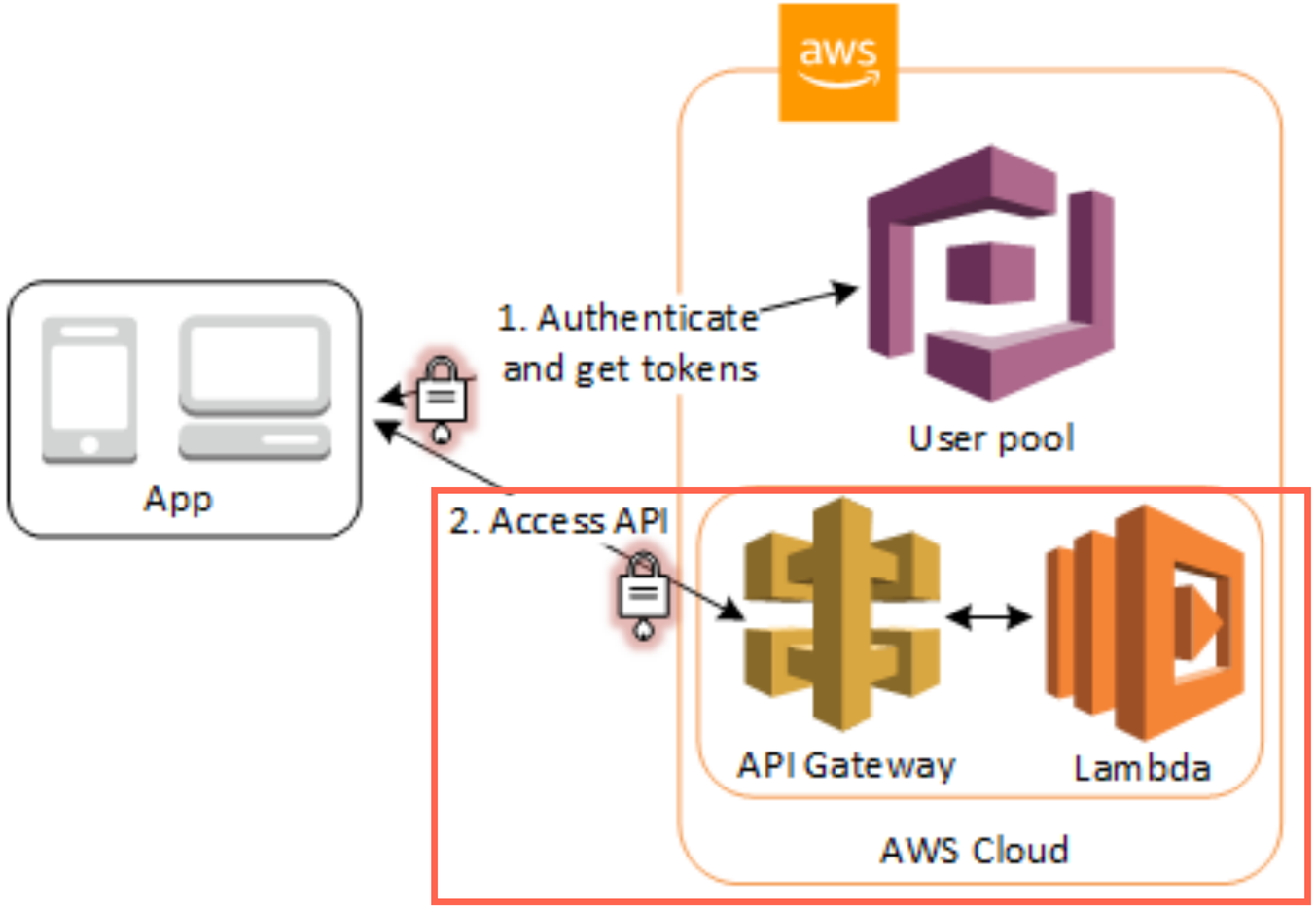


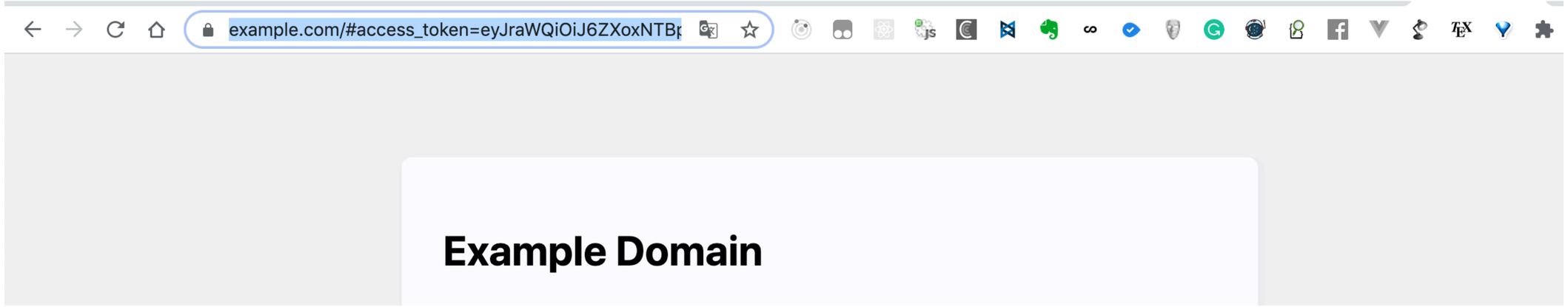
# More Resources

# API Authorization



# API Authorization

get bearer **access token** after login



# Some resources

- Blog: https://aws.amazon.com/tw/blogs/mobile/integrating-amazon-cognito-user-pools-with-api-gateway/
- Integrate a REST API with an Amazon Cognito user pool: https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-enable-cognito-user-pool.html
- Set COGNITO_USER_POOLS at Api Gateway -> Method Request -> End Point -> Settings -> Authorization: https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-create-cognito-user-pool.html
- Defining Resource Servers for Your User Pool: https://docs.aws.amazon.com/cognito/latest/developerguide/cognito-user-pools-define-resource-servers.html