

Applying Authorization



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Overview



Different ways to do authorization:

- Claims based
- Role based
- Resource based
- View based

In different application types:

- Web
- APIs



[Authorize] Hierarchy

[Authorize]

public class ConferenceController: Controller

[Authorize(Policy = "CanAddConference")]

public Task<IActionResult> Add()



What if a policy with more
complexity is needed?



A More Complex Policy

Speakers may only add a new proposal when they have more than the specified years of experience

Calculate years of experience using CareerStarted claim

Compare calculated years with specified number of years



Requirements and Handlers

YearsOfExperienceRequirement

YearsOfExperience = 5

AuthorizationHandler<YearsOfExperienceRequirement>

Succeed
Fail
Do nothing

AuthorizationHandler<YearsOfExperienceRequirement>

Succeed
Fail
Do nothing



Logic Around Multiple Handlers and/or Policies

If no handler calls Succeed,
access is denied

If **one** of them calls Fail, access is denied

Calling Fail explicitly denies access, no
matter what other handlers and policies do

But they are still called



Multiple Handlers



Badge



Visitor sticker

New Resource-based Policy

Purpose: May a proposal be edited?

**Depends on Approved property
on proposal**

Instance of proposal is needed



Benefits of Resource-based Policies

Centralized

Reuse

Enables complex logic

Can be used on any kind of object



Authorization Data

Identity Token is about the user's identity

Not Authorization Data

Bloated identity token could cause problems

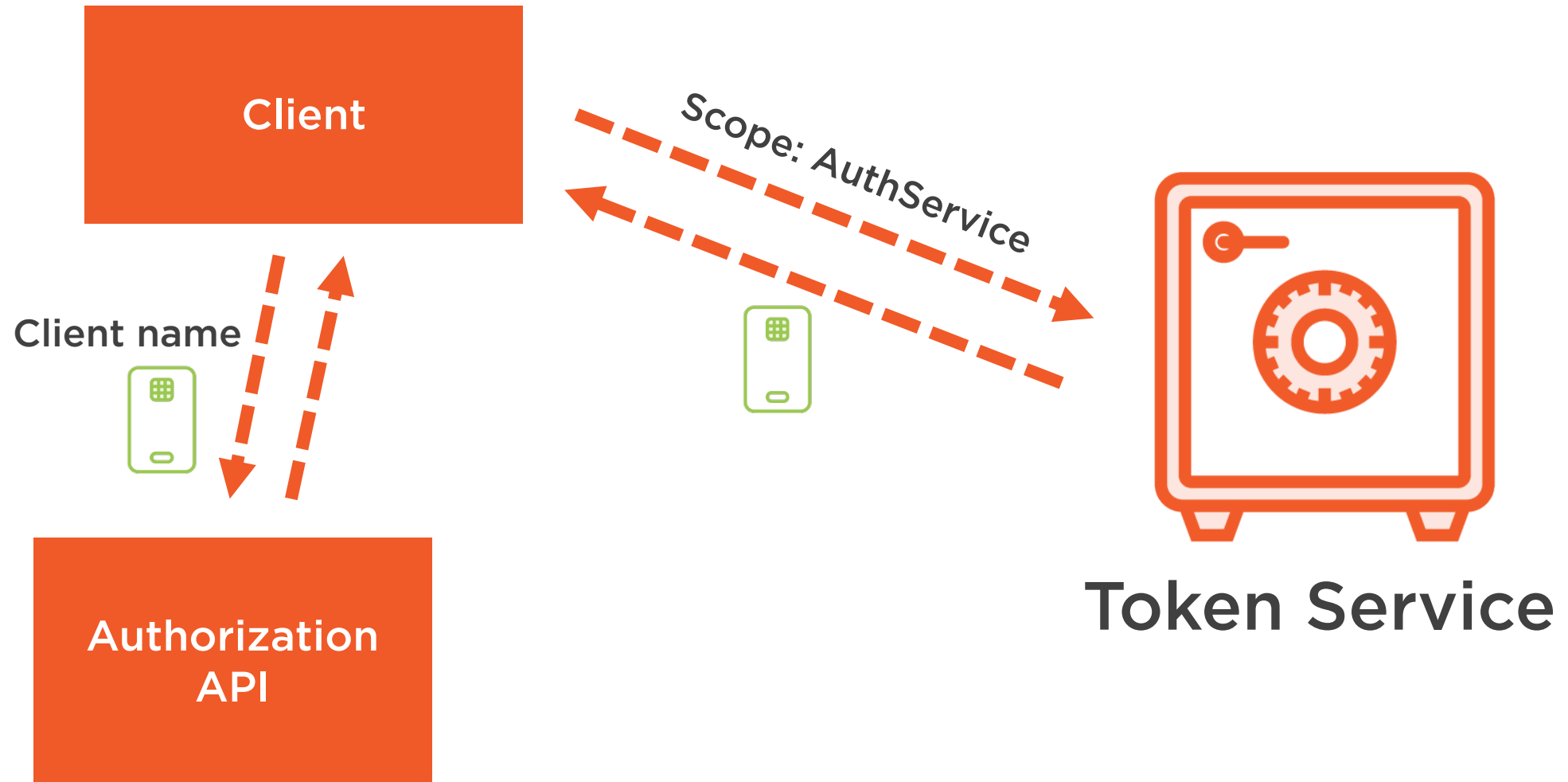
Context for each client or API is different

Suggestion: Create Authorization API



Architecture With Authorization API

Requirement + Handler



Summary



Creating and applying centralized policies is the way to go

Use them in web applications and APIs

Protecting resources

Where do you get the authorization data?





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