Working with Bearer Tokens in Angular



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Goals



Pass bearer token to server
Create HTTP interceptor
Add security policy



Pass Bearer Token to Server



Pass Bearer Token to Server

Inject security service into product service

Create HttpHeader

Set Authorization header to bearer token

Pass header with Web API get() call



Demo



Pass bearer token to server

Secure the complete product controller



Create HTTP Interceptor



Don't want to pass bearer token each time

Lots of code to write

Create HTTP interceptor

Intercepts each HTTP call

Adds Authorization header

All calls have the header added automatically

```
import { Injectable, NgModule } from '@angular/core';
import { Observable } from 'rxjs/Observable';
import { HttpEvent, HttpInterceptor, HttpHandler,
         HttpRequest } from '@angular/common/http';
import { HTTP_INTERCEPTORS } from '@angular/common/http';
@Injectable()
export_class_HttpRequestInterceptor_Limplements_HttpInterceptor {
 intercept(req: HttpRequest<any>, next: HttpHandler):
    Observable<HttpEvent<any>> {
    var token = localStorage.getItem("bearerToken");
    if(token) {
      const newReq = req.clone(
           headers: req.headers.set('Authorization',
                    'Bearer ' + token)
        });
        return next.handle(newReg);
```

Demo



Create HTTP interceptor



Add Security Policy



Add Security Policy

Secure method based on claim

Configure service to use policies

[Authorize(Policy = "ClaimType")]



Add code in ConfigureServices()

Add a policy name

Specify claim type and value



Add [Authorize] attribute with *Policy* parameter

Only those users with claim type and value that match may run method

```
[Route("api/[controller]")]
[Authorize]
public class ProductController : BaseApiController
  [HttpGet]
  [Authorize(Policy = "CanAccessProduc
  public IActionResult Get()
    IActionResult ret = null;
    List<Product> list = new List<Product>();
```



Demo



Add security policy

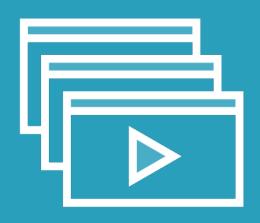


Summary



Passed bearer token to server
Created HTTP interceptor
Added security policy





Coming up in the next module...

Enterprise security

Create array of user claims from a table

Create structural directive for securing UI

