

Atividade 12 - Autorização Baseada em Roles

▼ Perguntas para Reflexão

1. O que é o decorator `@Roles()` e o que ele faz?

O `@Roles()` é um decorator customizado do NestJS que **define metadados** sobre quais permissões são necessárias para acessar uma rota específica.

Funcionamento:

- Armazena um array de roles permitidos como metadados
- Sintaxe: `@Roles('ADMIN')` ou `@Roles('USER', 'ADMIN')`
- Sozinho não faz validação - apenas marca a rota

```
@Get('admin')
@Roles('ADMIN') // Apenas usuários ADMIN podem acessar
getAdminData() {
    return { message: 'Bem-vindo, Admin!' };
}
```

2. Qual a função do **RolesGuard** ? Por que é importante?

O **RolesGuard** é um **guard do NestJS** que implementa a validação real de autorização.

Funcionamento:

1. Lê os metadados do `@Roles()` usando `Reflector`
2. Obtém o usuário autenticado do `request.user` (vem do JWT)
3. Compara o role do usuário com os roles permitidos
4. Retorna `true` (permitir) ou `false` (negar - 403 Forbidden)

Importância:

- **Segurança**: Garante controle de acesso granular
- **Centralizado**: Lógica de autorização em um único lugar
- **Reutilizável**: Usado em múltiplas rotas/controllers

3. O que acontece se uma rota tiver `@Roles('ADMIN')` mas o **RolesGuard** não for aplicado?

✗ SEM Guard: A rota fica publicamente acessível

- Qualquer usuário autenticado (USER ou ADMIN) consegue acessar
- O `@Roles('ADMIN')` é ignorado
- **Segurança comprometida!**

✓ COM Guard: Apenas usuários ADMIN acessam

- USER recebe **403 Forbidden**
- **Segurança garantida!**

Conclusão: O `@Roles()` é apenas um marcador; o **RolesGuard** faz a validação real.

4. Como testar se um token foi emitido com as roles corretas?

Opção A: Decodificar em jwt.io (online)

1. Cole o token em <https://jwt.io>
2. Verifique o campo `role` no payload decodificado

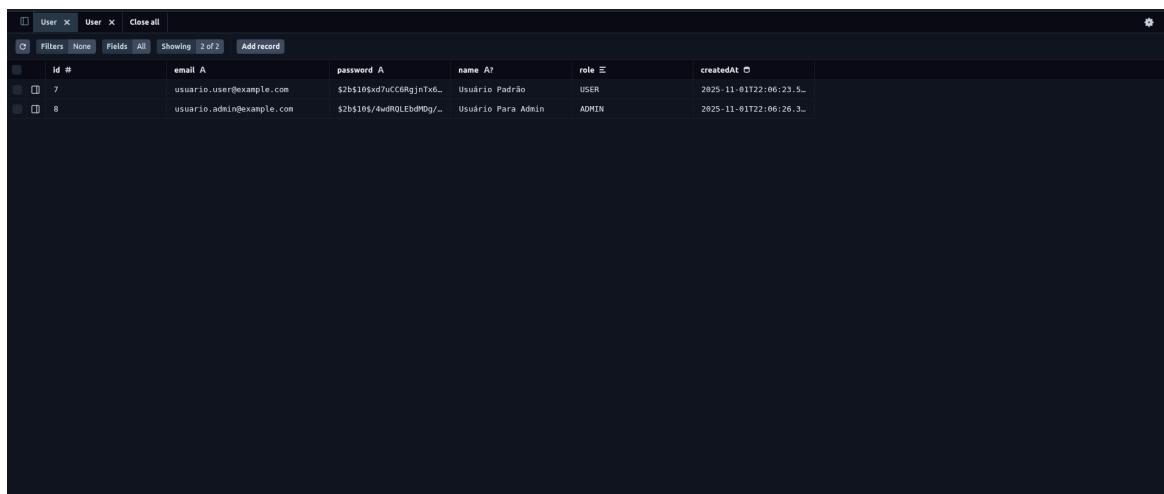
Opção B: Via REST Client

1. Execute `GET /auth/perfil` com o token
2. A resposta mostrará o objeto do usuário incluindo o `role`

Opção C: Testar comportamento

1. Obtenha o token
2. Teste em rota protegida (`GET /admin`)
3. **200 OK** = role correto | **403 Forbidden** = role incorreto

▼ Prints feitos



A screenshot of a database application interface showing two user records. The table has columns: id #, email A, password A, name A?, role, and createdAt. The first record (id 7) has email "usuario.user@example.com", password "\$2b\$10\$xd7uCC6RgjmTx0...", name "Usuário Padrão", role "USER", and createdAt "2025-11-01T22:06:23.5...". The second record (id 8) has email "usuario.admin@example.com", password "\$2b\$10\$/4wRQLEbdM0g/...", name "Usuário Para Admin", role "ADMIN", and createdAt "2025-11-01T22:06:26.3...".

	id #	email A	password A	name A?	role	createdAt
	7	usuario.user@example.com	\$2b\$10\$xd7uCC6RgjmTx0...	Usuário Padrão	USER	2025-11-01T22:06:23.5...
	8	usuario.admin@example.com	\$2b\$10\$/4wRQLEbdM0g/...	Usuário Para Admin	ADMIN	2025-11-01T22:06:26.3...

atividade-12 > jwt-auth-service > test-api-authorization.http > ...

```

1 You, há 38 minutos | 1 author (You)
2 ### 9. Testando a Autorização
3
4 @baseUrl = http://localhost:3000
5 @userEmail = usuario.user@example.com
6 @userPassword = 123456
7 @adminEmail = usuario.admin@example.com
8 @adminPassword = 654321
9 @tokenUser = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJzdWJl0jgsImVt
10 @tokenAdmin = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJzdWJl0jgsImVt
11
12 ### 9.1 Registrar o usuário padrão (role: USER)
13
14 Send Request
15 POST {baseUrl}/auth/register
16 Content-Type: application/json
17
18 {
19   "email": "{{userEmail}}",
20   "password": "{{userPassword}}",
21   "name": "Usuário Padrão"
22 }
23 # Resposta esperada: 201 Created (objeto do usuário sem senha)
24
25 ### 9.2 Registrar o segundo usuário (vamos torná-lo ADMIN manualmen

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npx prisma migrate dev --name add roles

Datastore "db": MySQL database "atividade12jwtwtdb" at "localhost:3306"

Already in sync, no schema change or pending migration was found.

✓ Generated Prisma Client (v6.18.0) to ./generated/prisma in 122ms

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio

Environment variables loaded from .env

Prisma schema loaded from prisma/schema.prisma

Prisma Studio is up on <http://localhost:5555>

Prisma schema loaded from prisma/schema.prisma

clsio27@pop-os: ~

Live Share (TypeScript Importer): Symbols: 259 [1]: 18305 Git Graph: 0 149ms 279 B

Response(201) X

```

1 HTTP/1.1 201 Created
2 X-Powered-By: Express
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 108
5 ETag: W/"6c-FntScpVUfmNpcAPGZXwq/R9qWhE"
6 Date: Sat, 01 Nov 2025 23:22:22 GMT
7 Connection: close
8
9 {
10   "id": 9,
11   "email": "usuario.user@example.com",
12   "name": "Usuário Padrão",
13   "createdAt": "2025-11-01T23:22:22.018Z"
14 }

```

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npm run start

h/perfil, GET) route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] AdminControl ler (/admin): +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped (/adm in, GET) route +1ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped (/adm in/users, GET) route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserControll er (/user): +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped (/use r/perfil, GET) route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest applic ation successfully started +34ms

atividade-12 > jwt-auth-service > test-api-authorization.http > ...

```

10 @tokenAdmin = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJzdWJl0jgsImVt
11
12 ### 9.1 Registrar o usuário padrão (role: USER)
13
14 Send Request
15 POST {baseUrl}/auth/register
16 Content-Type: application/json
17
18 {
19   "email": "{{userEmail}}",
20   "password": "{{userPassword}}",
21   "name": "Usuário Padrão"
22 }
23 # Resposta esperada: 201 Created (objeto do usuário sem senha)
24
25 ### 9.2 Registrar o segundo usuário (vamos torná-lo ADMIN manualmen
26 You, há 1 hora * feat: adicionar guia de testes de autorizaçõ
Send Request
27 POST {baseUrl}/auth/register
28 Content-Type: application/json
29
30 {
31   "email": "{{adminEmail}}",
32   "password": "{{adminPassword}}",
33   "name": "Usuário Para Admin"
34 }
35
36 # Resposta esperada: 201 Created (objeto do usuário sem senha)
37
38 ### 9.2.1 Tornar o segundo usuário ADMIN via Prisma Studio
39
40 Se você tiver feito sem alterar o role, o token conterá role: "US

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

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Datastore "db": MySQL database "atividade12jwtwtdb" at "localhost:3306"

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Prisma schema loaded from prisma/schema.prisma

clsio27@pop-os: ~

Live Share (TypeScript Importer): Symbols: 259 [1]: 18305 Git Graph: 0 63ms 286 B

Response(201) X

```

1 HTTP/1.1 201 Created
2 X-Powered-By: Express
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 113
5 ETag: W/"71-gAW300vVw4oLltLPD0jkADV8+IE"
6 Date: Sat, 01 Nov 2025 23:26:23 GMT
7 Connection: close
8
9 {
10   "id": 10,
11   "email": "usuario.admin@example.com",
12   "name": "Usuário Para Admin",
13   "createdAt": "2025-11-01T23:26:23.187Z"
14 }

```

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npm run start

h/perfil, GET) route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] AdminControl ler (/admin): +0ms

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[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped (/use r/perfil, GET) route +0ms

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atividade-12 > jwt-auth-service > test-api-authorization.http > ...

```

27 POST {{baseUrl}}/auth/register
33 | "name": "Usuário Para Admin"
34 }
35
36 # Resposta esperada: 201 Created (objeto do usuário sem senha)
37
38 ### 9.2.1 Tornar o segundo usuário ADMIN via Prisma Studio
39
40 # Se você fizer login sem alterar o role, o token conterá role: "USER"
41 # No terminal, execute: npx prisma studio
42 # Abra a interface, localize o usuário com email "{{adminEmail}}"
43
44 ### 9.3 Login do USER (pegar token)
45
46 Send Request
47 POST {{baseUrl}}/auth/login
48 Content-Type: application/json
49
50 {
51   "email": "{{userEmail}}",
52   "password": "{{userPassword}}"
53 }
54
55 # Depois de executar, copie o access_token e atualize a variável @tokenUser
56
57 ### 9.3.1 Verificar perfil (token do USER)
58
59 Send Request
60 GET {{baseUrl}}/auth/perfil
61 Authorization: Bearer {{tokenUser}}
62
63 # Resposta esperada: 200 OK
64
65 # Exemplo de resposta (note o campo role):

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npx prisma migrate dev --name add roles

Datasource "db": MySQL database "atividade12jwtbdb" at "localhost:3306"

Already in sync, no schema change or pending migration was found.

✓ Generated Prisma Client (v6.18.0) to ./generated/prisma in 122ms

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services\$ npx prisma studio

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clsio27@pop-os:~\$

Live Share (TypeScript Importer): Symbols: 259 [1]: 18305 Git Graph: 0 ms [3]: 394 B

Response(53ms) ▾

```

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 223
5 ETag: W/"df-aM2uiwfVX9cTf1rM/cjHgYg9Rz4"
6 Date: Sat, 01 Nov 2025 23:26:55 GMT
7 Connection: close
8
9 {
10   "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOijsImVtYlsIjoidXN1YXJpb51c2VyQGV4YW1wbGUuY29tIiwicm9sZSI6IiVLTnVilCjpxYQ10jE3NjIwMzk2MTUsImV4cCI6MTc2MjA0MzIxN0.05WCPbJ4vdlp2Yl6uH0G_30nMyAy5dnq6rfZm_Nw0Lj"
11 }

```

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npm run start

h/perfil, GET) route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] AdminController {/admin}: +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/admin}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/admin}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/users}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserControlller {/user}: +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/user}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/user}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

You, há 1 hora · Último (há 1 hora) 🔍 Noi

atividade-12 > jwt-auth-service > test-api-authorization.http > ...

```

1 You, há 1 segundo | Author (You)
2
3 ### 9. Testando a Autorização
4
5 Váriaveis (preenchidas automaticamente após login)
6
7
8
9 references
10 @baseUrl = http://localhost:3000
11 2 references
12 @userEmail = usuario.user@example.com
13 2 references
14 @userPassword = 123456
15 2 references
16 @adminEmail = usuario.admin@example.com
17 2 references
18 @adminPassword = 654321
19 2 references
20 @tokenUser = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOjksImVtYlsIjoidXN1YXJpb51c2VyQGV4YW1wbGUuY29tIiwicm9sZSI6IiVLTnVilCjpxYQ10jE3NjIwMzk2MTUsImV4cCI6MTc2MjA0MzIxN0.05WCPbJ4vdlp2Yl6uH0G_30nMyAy5dnq6rfZm_Nw0Lj
21 3 references
22 @tokenAdmin = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOjgsImVtYlsIjoidXN1YXJpb51c2VyQGV4YW1wbGUuY29tIiwicm9sZSI6IiVLTnVilCjpxYQ10jE3NjIwMzk2MTUsImV4cCI6MTc2MjA0MzIxN0.05WCPbJ4vdlp2Yl6uH0G_30nMyAy5dnq6rfZm_Nw0Lj
23 2 references
24
25 # Resposta esperada: 201 Created (objeto do usuário sem senha)
26
27 ### 9.2 Registrar o segundo usuário (vamos torná-lo ADMIN manualmente)

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npx prisma migrate dev --name add roles

Datasource "db": MySQL database "atividade12jwtbdb" at "localhost:3306"

Already in sync, no schema change or pending migration was found.

✓ Generated Prisma Client (v6.18.0) to ./generated/prisma in 122ms

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services\$ npx prisma studio

Environment variables loaded from .env

Prisma schema loaded from prisma/schema.prisma

Prisma Studio is up on http://localhost:5555

Prisma schema loaded from prisma/schema.prisma

clsio27@pop-os:~\$

Live Share (TypeScript Importer): Symbols: 259 [1]: 18305 Git Graph: 0 ms [3]: 394 B

Response(53ms) ▾

```

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 223
5 ETag: W/"df-aM2uiwfVX9cTf1rM/cjHgYg9Rz4"
6 Date: Sat, 01 Nov 2025 23:26:55 GMT
7 Connection: close
8
9 {
10   "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOijsImVtYlsIjoidXN1YXJpb51c2VyQGV4YW1wbGUuY29tIiwicm9sZSI6IiVLTnVilCjpxYQ10jE3NjIwMzk2MTUsImV4cCI6MTc2MjA0MzIxN0.05WCPbJ4vdlp2Yl6uH0G_30nMyAy5dnq6rfZm_Nw0Lj"
11 }

```

clsio27@pop-os:/media/clsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service\$ npm run start

h/perfil, GET) route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] AdminController {/admin}: +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/admin}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/admin}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/users}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserControlller {/user}: +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/user}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/user}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

You, há 47 minutos · Último (há 46 minutos) 🔍 Noi

```
atividade-12 > jwt-auth-service > test-api-authorization.http> POST /auth/register
49 # Se você fizer login sem alterar o role, o token conterá role: "USER"
50 # No terminal, execute: npx prisma studio
51 # Abra a interface, localize o usuário com email "{{adminEmail}}"
52
53 ##### 9.3 Login do USER (pegar token)
54
55 Send Request
56 POST {{baseUrl}}/auth/login
57 Content-Type: application/json
58
59 {
60   "email": "{{userEmail}}",
61   "password": "{{userPassword}}"
62 }
63
64 # Depois de executar, copie o access_token e atualize a variável @tokenUser
65
66 ##### 9.3.1 Verificar perfil (token do USER)
67
68 Send Request
69 GET {{baseUrl}}/auth/profile
70 Authorization: Bearer {{tokenUser}}
71
72 # Resposta esperada: 200 OK
73 # Exemplo de resposta (note o campo role):
74 #
75 # {
76 #   "id": 1,
77 #   "email": "usuario.user@example.com",
78 #   "name": "Usuário Padrão",
79 #   "role": "USER"
80 # }
81
82 ##### 9.4 Login do ADMIN (pegar token)
83
84 Send Request
85 POST {{baseUrl}}/auth/login
86 Content-Type: application/json
87
88
89 Klsio27@pop-os:~/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service$ npx prisma migrate dev --name add roles
90
91 Klsio27@pop-os:~/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service$ npx prisma studio
92 Environment variables loaded from .env
93 Prisma schema loaded from prisma/schema.prisma
94 Prisma Studio is up on http://localhost:5555
95 Prisma schema loaded from prisma/schema.prisma
96
97
98 Klsio27@pop-os:~/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service$ npx prisma studio
99
100 Response body: A
101
102 1 HTTP/1.1 200 OK
103 2 X-Powered-By: Express
104 3 Content-Type: application/json; charset=utf-8
105 4 Content-Length: 177
106 5 ETag: W/"b1-E6HssPKVgdKTb7xCx5WnrsXmqio"
107 6 Date: Sat, 01 Nov 2025 23:27:53 GMT
108 7 Connection: close
109 8
110 9 <{
111 10   "message": "Você acessou uma rota protegida!",
112 11   "user": {
113 12     "id": 9,
114 13     "email": "usuario.user@example.com",
115 14     "name": "Usuário Padrão",
116 15     "role": "USER",
117 16     "createdAt": "2025-11-01T23:22:22.018Z"
118 17   }
119 18 }
```

```
atividade-12 > jwl-auth-service > test-api-authorization.http > tokenAdmin
  You, há 1 segundo | 1 author (You)
  1 ## 9. Testando a Autorização
  2 ## Variáveis (preenchidas automaticamente após login)
  3
  4 @reference
  5 @baseUrl = http://localhost:3000
  6 @userEmail = usuario.user@example.com
  7 @userPassword = 123456
  8 @adminEmail = usuario.admin@example.com
  9 @adminPassword = 654321
  10 @tokenUser = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOijsImVtY
  11 @tokenAdmin = eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOjEwLCJl
  12
  13 ## 9.1 Registrar o usuário padrão (role = USER)
  14
  15 Send Request
  16 POST {{baseUrl}}/auth/register
  17 Content-Type: application/json
  18 {
  19   "email": "{{userEmail}}",
  20   "password": "{{userPassword}}",
  21   "name": "Usuário Padrão"
  22 }
  23 # Resposta esperada: 201 Created (objeto do usuário sem senha)
  24
  25 ## 9.2 Registrar o segundo usuário (vamos torná-lo ADMIN manualmen
  26
  27 Send Request
  28 POST {{baseUrl}}/auth/register
  29 Content-Type: application/json
  30

  1 HTTP/1.1 200 OK
  2 X-Powered-By: Express
  3 Content-Type: application/json; charset=utf-8
  4 Content-Length: 227
  5 ETag: W/"e3-6TCSSHelm+y+kFRvUtuifCVNUC"
  6 Date: Sat, 01 Nov 2025 23:28:01 GMT
  7 Connection: close
  8
  9 {
 10   "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIi
 11   OjEwLCJlbWFpbC16InVzdFyaw8UYWRtaW5AZhhbxBsZ5jb201CJyb2xIjoi
 12   QURNSU4lCJpyXOiojE3NjIwMzk20DEsImV4CC16MTc2MjA0MzI4MX0.u9HGU6U
 13   ZWIKejzb1ShiaFlt5axvE6gRrwv7JiRa9j4"
 14
 15 }

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS
klasio27@pop-os:~/media/klasio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service$ npx prisma migrate dev --name add roles
klasio27@pop-os:~/media/klasio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service$ npx prisma studio
Environment variables loaded from .env
Prisma schema loaded from prisma/schema.prisma
Prisma Studio is up on http://localhost:5555
Prisma schema loaded from prisma/schema.prisma
klasio27@pop-os:~/media/klasio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-service$ npx prisma migrate dev --name add roles
[ Nest ] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController {/user}: +0ms
[ Nest ] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/user}/perfil, GET route +0ms
[ Nest ] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms
+ - t: npm (jwt-auth-service) x ... | x
You, há 4 segundos Ainda Não Confirmado Ln 10, Col 29 Espaços: 4 UTF-8 LF () HTTP B No
```

atividade-12 > jwt-auth-service > test-api-authorization.http > ...

```

58  GET {{baseUrl}}/auth/perfil
60  #   "name": "Usuário Padrão",
61  #   "role": "USER"
62  #
63  #
64  ### 9.4 Login do ADMIN (pegar token)
65
66  Send Request
67  POST {{baseUrl}}/auth/login
68  Content-Type: application/json
69
70  {
71    "email": "{{adminEmail}}",
72    "password": "{{adminPassword}}"
73  }
74
75  # Depois de executar, copie o access_token e atualize a variável @
76  #
77  ## 9.4.1 Verificar perfil (token do ADMIN)
78  | You, há 48 minutos • feat: corrigir endpoint GET /admin/users
79  | Send Request
80  | GET {{baseUrl}}/auth/perfil
81  | Authorization: Bearer {{tokenAdmin}}
82
83  # Resposta esperada: 200 OK
84  # Exemplo de resposta (note o campo role):
85  #
86  | {
87    "id": 2,
88    "email": "usuario.admin@example.com",
89    "name": "Usuário Para Admin",
90    "role": "ADMIN"
91  }
92
93  #
94  #
95
96  ## 9.5 Testar acesso a /admin com TOKEN do USER (deve retornar 403,
97
98  Send Request
99  GET {{baseUrl}}/admin
100 Authorization: Bearer {{tokenUser}}

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma migrate dev --name add roles

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio

Environment variables loaded from .env

Prisma schema loaded from prisma/schema.prisma

Prisma Studio is up on http://localhost:5555

Prisma schema loaded from prisma/schema.prisma

Live Share [TypeScript Importer] Symbols: 259 [1]-18305 Git Graph +0.6ms 308.8

Response (body) ▾

```

1  HTTP/1.1 200 OK
2  X-Powered-By: Express
3  Content-Type: application/json; charset=utf-8
4  Content-Length: 227
5  ETag: W/"e3-6TCsshHeLm+y+kFRvUtuifCVNUc"
6  Date: Sat, 01 Nov 2025 23:28:01 GMT
7  Connection: close
8
9  {
10   "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWJlOjEwLCJlbWFpbC16InVzdWYfaW8uYWRtaW5AZXhhbxBsZS5jb20iLCJyb2xIjoiQURNSU4iLCJpXYQ0j0jE3NjIwMzk2ODEsImV4cCI6MTc2MjA0MzI4MX0.u9HGUG6UzZWlKEjzb1SHiaFlt5axvE6gRrwv7JiRa9j."
11 }

```

+ - 1: npm (jwt-auth-service) ...

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services\$ npm run start

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController [in/users, GET] route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/users, GET}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

You, há 48 minutos ð klesio (há 47 minutos) In 83 Col 1 Espacos 4 HTTP-B JF HTTP No

atividade-12 > jwt-auth-service > test-api-authorization.http > ...

```

58  GET {{baseUrl}}/auth/perfil
60  #
61  #
62  ### 9.4 Login do ADMIN (pegar token)
63
64  Send Request
65
66  | You ð há 48 minutos (novembro 1st, 2025 7:40 da noite)
67  | feat: corrigir endpoint GET /admin/users para retornar usuários reais e atualizar documentação
68
69  | fea821d | 16 | 17 | 18 | Explain | Connect to GitHub... | ...
70  | - GET http://localhost:3000/auth/perfil
71  | +
72  | Changes fea821d ↪ fea821d | 16
73  | You, há 48 minutos • feat: corrigir endpoint GET /admin/users
74
75  Send Request
76  GET {{baseUrl}}/auth/perfil
77  Authorization: Bearer {{tokenAdmin}}
78
79  # Resposta esperada: 200 OK
80  # Exemplo de resposta (note o campo role):
81  #
82  | {
83    "id": 10,
84    "email": "usuario.admin@example.com",
85    "name": "Usuário Para Admin",
86    "role": "ADMIN",
87    "createdAt": "2025-11-01T23:26:23.187Z"
88  }
89
90  #
91  | user": {
92    "id": 10,
93    "email": "usuario.admin@example.com",
94    "name": "Usuário Para Admin",
95    "role": "ADMIN"
96  }
97
98  ## 9.5 Testar acesso a /admin com TOKEN do USER (deve retornar 403,
99
100 Send Request
101 GET {{baseUrl}}/admin
102 Authorization: Bearer {{tokenUser}}
103
104 # Resposta esperada: 403 Forbidden
105 # Exemplo de resposta esperada:

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma migrate dev --name add roles

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio

Environment variables loaded from .env

Prisma schema loaded from prisma/schema.prisma

Prisma Studio is up on http://localhost:5555

Prisma schema loaded from prisma/schema.prisma

Live Share [TypeScript Importer] Symbols: 259 [1]-18305 Git Graph +0.6ms 354.8

Response (body) ▾

```

1  HTTP/1.1 200 OK
2  X-Powered-By: Express
3  Content-Type: application/json; charset=utf-8
4  Content-Length: 183
5  ETag: W/b7-jig3dLeMBrbahVJzdBTOIGuymA"
6  Date: Sat, 01 Nov 2025 23:28:43 GMT
7  Connection: close
8
9
10 {
11   "message": "Você acessou uma rota protegida!",
12   "user": {
13     "id": 10,
14     "email": "usuario.admin@example.com",
15     "name": "Usuário Para Admin",
16     "role": "ADMIN",
17     "createdAt": "2025-11-01T23:26:23.187Z"
18   }
19
20
21 }

```

+ - 1: npm (jwt-auth-service) ...

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services\$ npm run start

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController [in/users, GET] route +0ms

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/users, GET}

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

You, há 48 minutos ð klesio (há 47 minutos) In 83 Col 1 Espacos 4 HTTP-B JF HTTP No

```

test-api-authorization.http > test-api-authorization.http (atício de Prudêncio)
atividade-12 > jwt-auth-service > test-api-authorization.http > ...
80 # Depois de executar, copie o access_token e atualize a variável {{tokenAdmin}}
81
82 ### 9.4.1 Verificar perfil (token do ADMIN)
83 You, há 48 minutos * feat: corrigir endpoint GET /admin/users
Send Request
84 GET {{baseUrl}}/auth/perfil
85 Authorization: Bearer {{tokenAdmin}}
86
87 # Resposta esperada: 200 OK
88 # Exemplo de resposta (note o campo role):
89 #
90 # {
91 #   "id": 2,
92 #   "email": "usuario.admin@example.com",
93 #   "name": "Usuário Para Admin",
94 #   "role": "ADMIN"
95 #
96 ### 9.5 Testar acesso a /admin com TOKEN do USER (deve retornar 403)
97
Send Request
98 GET {{baseUrl}}/admin
99 Authorization: Bearer {{tokenUser}}
100
101 # Resposta esperada: 403 Forbidden
102 # Exemplo de resposta esperada:
103 #
104 # {
105 #   "statusCode": 403,
106 #   "message": "Insufficient permissions",
107 #   "error": "Forbidden"
108 #
109 ### 9.6 Testar acesso a /admin com TOKEN do ADMIN (deve retornar 200)
110
Send Request
111 GET {{baseUrl}}/admin
112 Authorization: Bearer {{tokenAdmin}}
113
114 # Resposta esperada: 200 OK

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

```

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma migrate dev --name add roles

```

```

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio
Environment variables loaded from .env
Prisma schema loaded from prisma/schema.prisma
Prisma Studio is up on http://localhost:5555
Prisma schema loaded from prisma/schema.prisma

```

Live Share [TypeScript Importer] Symbols: 259 [1]-18305 Git Graph [0] 7ms [2] 245 B

Response(403) X

```

1 HTTP/1.1 403 Forbidden
2 X-Powered-By: Express
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 75
5 ETag: W/"4b-Pl36aVRVcxZlwKF6w34weXgrcRs"
6 Date: Sat, 01 Nov 2025 23:28:53 GMT
7 Connection: close
8
9 {
10   "message": "Insufficient permissions",
11   "error": "Forbidden",
12   "statusCode": 403
13 }

```

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npm run start

```

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController [in/users, GET] route +0ms
[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/use
r/perfil, GET} route +0ms
[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

```

Y, há 48 minutos Ó Meio (há 47 minutos) [2] No i

```

test-api-authorization.http > test-api-authorization.http (atício de Prudêncio)
atividade-12 > jwt-auth-service > test-api-authorization.http > ...
84 GET {{baseUrl}}/auth/perfil
85 #
86 # {
87 #   "id": 2,
88 #   "email": "usuario.admin@example.com",
89 #   "name": "Usuário Para Admin",
90 #   "role": "ADMIN"
91 #
92 ### 9.5 Testar acesso a /admin com TOKEN do USER (deve retornar 403)
93
Send Request
94 GET {{baseUrl}}/admin
95 Authorization: Bearer {{tokenUser}}
96
97 # Resposta esperada: 403 Forbidden
98 # Exemplo de resposta esperada:
99 #
100 # {
101 #   "statusCode": 403,
102 #   "message": "Insufficient permissions",
103 #   "error": "Forbidden"
104 #
105 ### 9.6 Testar acesso a /admin com TOKEN do ADMIN (deve retornar 200)
106
Send Request
107 GET {{baseUrl}}/admin
108 Authorization: Bearer {{tokenAdmin}}
109
110 # Resposta esperada: 200 OK
111 # Exemplo de resposta esperada:
112 #
113 # {
114 #   "message": "Bem-vindo, Admin!",
115 #   "user": {
116 #     "id": 10,
117 #     "email": "usuario.admin@example.com",
118 #     "name": "Usuário Para Admin",
119 #     "role": "ADMIN",
120 #     "createdAt": "2025-11-01T23:26:23.187Z"
121 #
122 #
123 #
124 ### 9.7 (Optional) Testar acesso a /admin/users com TOKEN do ADMIN

```

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS

```

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma migrate dev --name add roles

```

```

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio
Environment variables loaded from .env
Prisma schema loaded from prisma/schema.prisma
Prisma Studio is up on http://localhost:5555
Prisma schema loaded from prisma/schema.prisma

```

Live Share [TypeScript Importer] Symbols: 259 [1]-18305 Git Graph [0] 5ms [2] 338 B

Response(200) X

```

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Content-Type: application/json; charset=utf-8
4 Content-Length: 167
5 ETag: W/"a7-+scwKaAFCozwV1/lvylJjyESjCw"
6 Date: Sat, 01 Nov 2025 23:29:01 GMT
7 Connection: close
8
9 {
10   "message": "Bem-vindo, Admin!",
11   "user": {
12     "id": 10,
13     "email": "usuario.admin@example.com",
14     "name": "Usuário Para Admin",
15     "role": "ADMIN",
16     "createdAt": "2025-11-01T23:26:23.187Z"
17   }
18 }

```

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npm run start

```

[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController [in/users, GET] route +0ms
[Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/use
r/perfil, GET} route +0ms
[Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

```

Y, há 48 minutos Ó Meio (há 47 minutos) [2] No i

atividade-12 > jwt-auth-service > test-api-authorization.http > [OK] Response(JSON) X

```

111 GET {{baseUrl}}/admin
112 Authorization: Bearer {{tokenAdmin}}
113
114 # Resposta esperada: 200 OK
115 # Exemplo de resposta esperada:
116 # {
117 #   "message": "Bem-vindo, Admin!",
118 #   "user": {
119 #     "id": 2,
120 #     "email": "usuario.admin@example.com",
121 #     "role": "ADMIN"
122 #   }
123 # }
124
125 ### 9.7 (Opcional) Testar acesso a /admin/users com TOKEN do ADMIN
126
127 Send Request
128 GET {{baseUrl}}/admin/users
129 Authorization: Bearer {{tokenAdmin}}
130
131 # Resposta esperada: 200 OK
132 # Exemplo de resposta esperada:
133 # {
134 #   "message": "Lista de usuários (apenas para ADMINS)",
135 #   "users": [
136 #     {
137 #       "id": 1,
138 #       "email": "usuario.user@example.com",
139 #       "name": "Usuário Padrão",
140 #       "role": "USER",
141 #       "createdAt": "2025-11-01T23:22:22.018Z"
142 #     },
143 #     {
144 #       "id": 2,
145 #       "email": "usuario.admin@example.com",
146 #       "name": "Usuário Para Admin",
147 #       "role": "ADMIN",
148 #       "createdAt": "2025-11-01T23:22:22.018Z"
149 #   ]
150
151 PROBLEMAS 0 SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS
Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma migrate dev --name add roles
Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio
Environment variables loaded from .env
Prisma schema loaded from prisma/schema.prisma
Prisma Studio is up on http://localhost:5555
Prisma schema loaded from prisma/schema.prisma
[OK]
Live Share [TypeScript Importer] Symbols: 259 [1].18305 Git Graph: 0 ms 487 B
```

+ ~ 1: npm (jwt-auth-service) ...

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npm run start
is/atividade-12/jwt-auth-services [Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController [Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/users, GET} route +0ms [Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

You, há 48 minutos Último (há 47 minutos) Noi

atividade-12 > jwt-auth-service > test-api-authorization.http > [OK] Response(JSON) X

```

111 GET {{baseUrl}}/admin
112 Authorization: Bearer {{tokenAdmin}}
113
114 # Resposta esperada: 200 OK
115 # Exemplo de resposta esperada:
116 # {
117 #   "message": "Bem-vindo, Admin!",
118 #   "user": {
119 #     "id": 2,
120 #     "email": "usuario.admin@example.com",
121 #     "role": "ADMIN"
122 #   }
123 # }
124
125 ### 9.7 (Opcional) Testar acesso a /admin/users com TOKEN do ADMIN
126
127 Send Request
128 GET {{baseUrl}}/admin/users
129 Authorization: Bearer {{{tokenUser}}} You, há 1 segundo * Un
130
131 # Resposta esperada: 200 OK
132 # Exemplo de resposta esperada:
133 # {
134 #   "message": "Lista de usuários (apenas para ADMINS)",
135 #   "users": [
136 #     {
137 #       "id": 1,
138 #       "email": "usuario.user@example.com",
139 #       "name": "Usuário Padrão",
140 #       "role": "USER",
141 #       "createdAt": "2025-11-01T23:22:22.018Z"
142 #     },
143 #     {
144 #       "id": 2,
145 #       "email": "usuario.admin@example.com",
146 #       "name": "Usuário Para Admin",
147 #       "role": "ADMIN",
148 #       "createdAt": "2025-11-01T23:22:22.018Z"
149 #   ]
150
151 PROBLEMAS 0 SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL GITLENS
Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma migrate dev --name add roles
Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npx prisma studio
Environment variables loaded from .env
Prisma schema loaded from prisma/schema.prisma
Prisma Studio is up on http://localhost:5555
Prisma schema loaded from prisma/schema.prisma
[OK]
Live Share [TypeScript Importer] Symbols: 259 [1].18305 Git Graph: 0 ms 213 B
```

+ ~ 1: npm (jwt-auth-service) ...

Klsio27@pop-os:/media/klsio27/outher-files/documentos/utfpr/topicos-especiais/atividade-12/jwt-auth-services npm run start
is/atividade-12/jwt-auth-services [Nest] 299325 - 01/11/2025, 19:33:04 LOG [RoutesResolver] UserController [Nest] 299325 - 01/11/2025, 19:33:04 LOG [RouterExplorer] Mapped {/users, GET} route +0ms [Nest] 299325 - 01/11/2025, 19:33:04 LOG [NestApplication] Nest application successfully started +34ms

You, há 1 segundo Último (há 47 minutos) Noi

▼ Repositório:

<https://github.com/klsio22/topicos-especiais/tree/main/atividade-12/jwt-auth-service>