# **Identity Service**

OIDC测试用户: jxw01 000000

# 安装QuickstartUI

在服务端项目文件夹下,运行 updateUI.ps1 文件里的命令

# 针对不同场景的配置

# 客户端授权模式

● 资源配置 config.cs

• 配置IServiceCollection

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddIdentityServer()
        .AddDeveloperSigningCredential(true, "tempkey.rsa")
        .AddInMemoryApiResources(Config.GetApiResources())
```

```
.AddInMemoryClients(Config.GetClients());

services.AddMvc();
}
```

• 获取token: http://localhost:5000/connect/token

```
{
    "scope":"mall",
    "client_id":"client",
    "client_secret":"secret",
    "grant_type":"client_credentials"
}
```

• 客户端配置

### 使用密码保护API资源

• 资源配置 config.cs

```
public static IEnumerable<ApiResource> GetApiResources()
{
   var resources = new List<ApiResource>();
   resources.Add(new ApiResource("app", "对app开放的API"));
   return resources;
}

   public static IEnumerable<Client> GetClients()
{
   var clients = new List<Client>();
   clients.Add(new Client
```

```
{
    AccessTokenLifetime = 3600 * 24,

    ClientId = "ro.client",

    AllowedGrantTypes = GrantTypes.ResourceOwnerPassword,

    ClientSecrets = { new Secret("secret".Sha256()) },

    AllowedScopes = { "app" }
});

return clients;
}

public static IEnumerable<IdentityResource> GetIdentityResources()
{
    return new List<IdentityResource>
    {
        new IdentityResources.OpenId(),
        new IdentityResources.Profile()
    };
}
```

#### 自定义允许客户端获取的Claims

```
public class ProfileService : IProfileService
{
    public async Task GetProfileDataAsync(ProfileDataRequestContext context)
    {
        await Task.CompletedTask;
        //depending on the scope accessing the user data.
        var claims = context.Subject.Claims;
        //set issued claims to return
        context.IssuedClaims = claims.ToList();
    }
    public async Task IsActiveAsync(IsActiveContext context)
        await Task.CompletedTask;
       context.IsActive = true;
    }
}
   // 在startup的ConfigureServices中加入:
    // services.AddProfileService<ProfileService>()
```

• 配置验证

```
public class ResourceOwnerPasswordValidator : IResourceOwnerPasswordValidator
        private readonly ILogger<ResourceOwnerPasswordValidator> _logger;
        public
ResourceOwnerPasswordValidator(ILogger<ResourceOwnerPasswordValidator> logger)
            _logger = logger;
        }
        public async Task ValidateAsync(ResourceOwnerPasswordValidationContext
context)
        {
            await Task.CompletedTask;
            _logger.LogInformation("进入验证");
            //验证用户名密码
            context.Result = new GrantValidationResult("123456",
OidcConstants.AuthenticationMethods.Password, new List<Claim>()
                    new Claim("tenant_id","95")
                });
       }
    }
```

• 配置IServiceCollection

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddIdentityServer()
        .AddDeveloperSigningCredential(true, "tempkey.rsa")
        .AddInMemoryApiResources(Config.GetApiResources())
        .AddInMemoryIdentityResources(Config.GetIdentityResources())
        .AddInMemoryClients(Config.GetClients())
        .AddResourceOwnerValidator<ResourceOwnerPasswordValidator>()
        .AddProfileService<ProfileService>();
    services.AddMvc();
}
```

• 获取token http://localhost:5000/connect/token

```
{
    "scope":"app",
```

```
"client_id":"ro.client",
    "client_secret":"client_secret",
    "grant_type":"password",
    "username":"username",
    "password":"password"
}
```

## 基于 OpenID Connect 的用户认证

• 添加Quickstart.UI

服务器端根目录下,打开powershell运行以下命令: iex ((New-Object System.Net.WebClient).DownloadString('https://raw.githubusercontent.com/IdentityServer/IdentityServer4.Qui ckstart.UI/master/getmaster.ps1'))

● 资源配置 config.cs

```
public static IEnumerable<Client> GetClients()
       {
           var clients = new List<Client>();
           clients.Add(new Client
               ClientId = "mvc",
               ClientName = "MVC Client",
               AllowedGrantTypes = GrantTypes.Implicit,
               // 登录成功回调处理地址,处理回调返回的数据
               RedirectUris = { "http://localhost:5002/signin-oidc" },
               // where to redirect to after logout
               PostLogoutRedirectUris = { "http://localhost:5002/signout-
callback-oidc" },
               AllowedScopes = new List<string>
               {
                   IdentityServerConstants.StandardScopes.OpenId,
                   IdentityServerConstants.StandardScopes.Profile,
                   "tenantId",
                   "userId",
                   "userName"
               },
               // 关闭授权页面
               RequireConsent = false
           });
           return clients;
        }
               public static IEnumerable<IdentityResource> GetIdentityResources()
           return new List<IdentityResource>
```

```
new IdentityResources.OpenId(),
                new IdentityResources.Profile(),
                new IdentityResource("tenantId", "tenantId", new List<string>()
{"tenantId"}),
                new IdentityResource("userId", "userId", new List<string>()
{"userId"}),
                new IdentityResource("userName", "userName", new List<string>()
{"userName"})
            };
        public static List<TestUser> GetUsers()
            return new List<TestUser>()
                    new TestUser
                        SubjectId="1",
                        Username="jxw01",
                        Password="000000",
                        Claims = new List<Claim> {
                            new Claim("tenantId", "95"),
                            new Claim("userName", "jxw01"),
                            new Claim("userId", "95"),
                        }
                    }
                };
        }
```

### • 配置IServiceCollection

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddIdentityServer(options => {
    options.UserInteraction.LoginUrl = "/account/login"; })
        .AddDeveloperSigningCredential(true, "tempkey.rsa")
        .AddInMemoryIdentityResources(Config.GetIdentityResources())
        .AddInMemoryClients(Config.GetClients())
        .AddTestUsers(Config.GetUsers());

    services.AddMvc();
}
```

## • 客户端配置

```
public void ConfigureServices(IServiceCollection services)
{
    JwtSecurityTokenHandler.DefaultInboundClaimTypeMap.Clear();
```

```
services
        .AddAuthentication(options =>
    {
       options.DefaultScheme = "Cookies";
       options.DefaultChallengeScheme = "oidc";
   })
    .AddCookie("Cookies", options=> {
       options.ExpireTimeSpan = TimeSpan.FromMinutes(20);
       options.SlidingExpiration = true;
   })
    .AddOpenIdConnect("oidc", options =>
  {
     // 添加scope,以保证可以从服务器端获取到这些信息
     options.Scope.Add("tenantId");
     options.Scope.Add("userId");
     options.Scope.Add("userName");
     options.Authority = "http://localhost:5000";
     options.RequireHttpsMetadata = false;
     options.ClientId = "mvc";
     options.SaveTokens = true;
 });
   services.AddMvc();
}
```

For more server information, see http://localhost:5000/.well-known/openid-configuration

# 使用HttpClient获取Token

```
// IdentityModel 包含了一个用于 发现端点 的客户端库。这样一来你只需要知道 IdentityServer 的基础地址 var disco = await DiscoveryClient.GetAsync("http://localhost:5000"); // 接着你可以使用 TokenClient 类型来请求令牌。为了创建一个该类型的实例,你需要传入令牌端点地址、客户端id和密码。 // 然后你可以使用 RequestClientCredentialsAsync 方法来为你的目标 API 请求一个令牌: var tokenClient = new TokenClient(disco.TokenEndpoint, "client", "secret"); var tokenResponse = await tokenClient.RequestClientCredentialsAsync("mall"); // 使用Token访问受保护的资源 var client = new HttpClient(); client.SetBearerToken(tokenResponse.AccessToken);
```