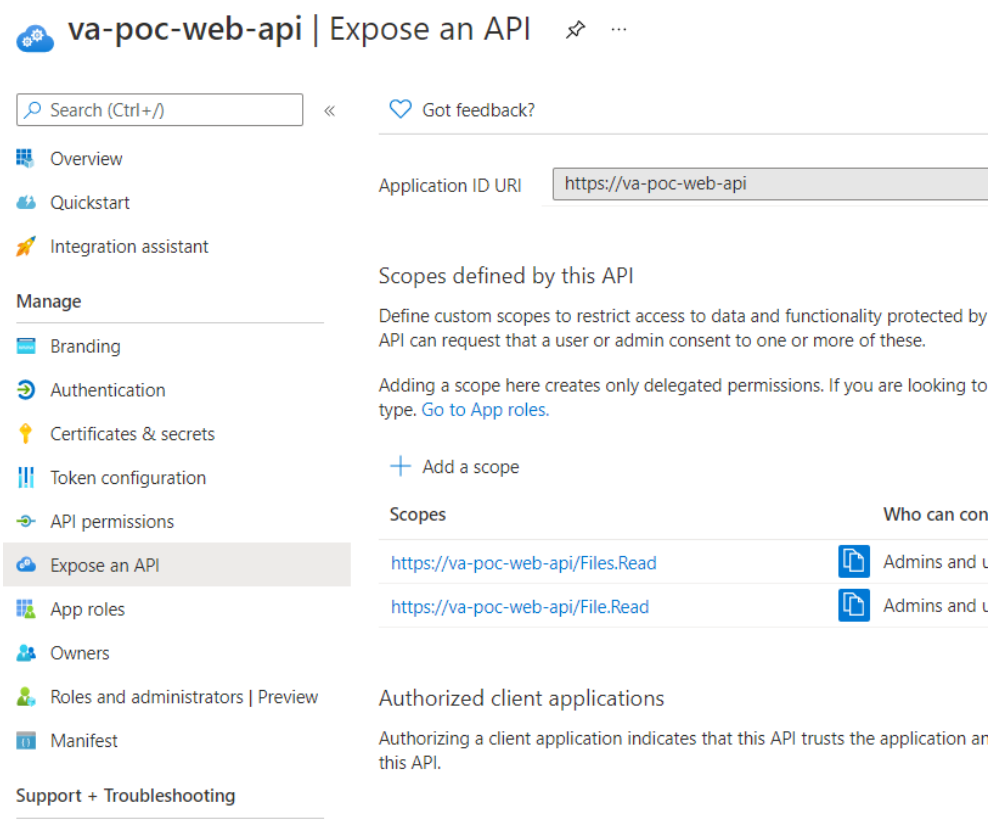
Web API



Web API java code using spring boot:

```java
@RestController
public class HelloController {

    @GetMapping("/files")
    @ResponseBody
    @PreAuthorize("hasAuthority('Files.Read')")
    public String files() { return "File read success."; }

    @GetMapping("/file")
    @ResponseBody
    @PreAuthorize("hasAuthority('SCOPE_File.Read')")
    public String file() { return "File read success."; }

    @GetMapping("/user")
```

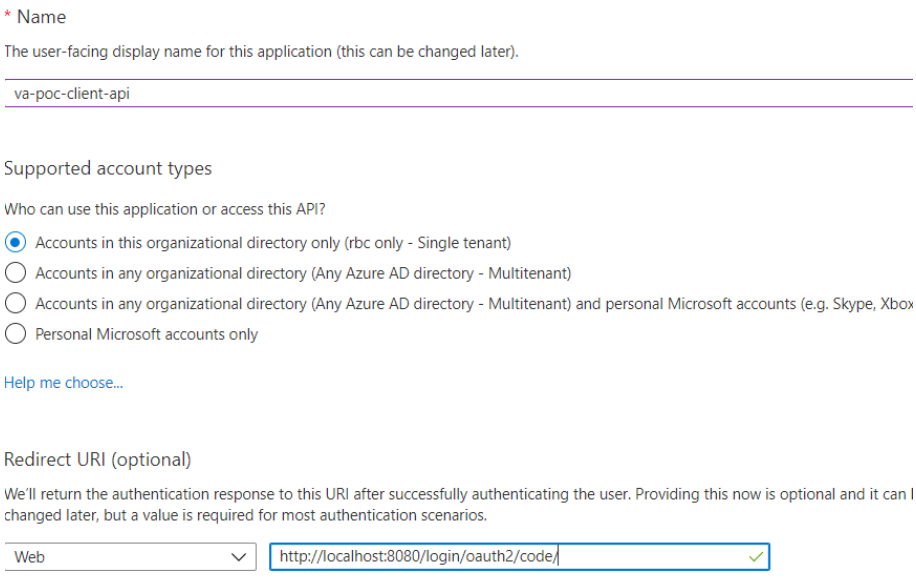
```java
@EnableWebSecurity
@EnableGlobalMethodSecurity(prePostEnabled = true)
public class AADOAuth2ResourceServerExposeAPISecurityConfig extends WebSecurityConfigurerAdapter {
    @Override
    protected void configure(HttpSecurity http) throws Exception {
        http.authorizeRequests((requests) -> requests.anyRequest().authenticated()) HttpSecurity
                .oauth2ResourceServer() OAuth2ResourceServerConfigurer<HttpSecurity>
                .jwt() OAuth2ResourceServerConfigurer<H>.JwtConfigurer
                .jwtAuthenticationConverter(new AADJwtBearerTokenAuthenticationConverter());
    }
}
```

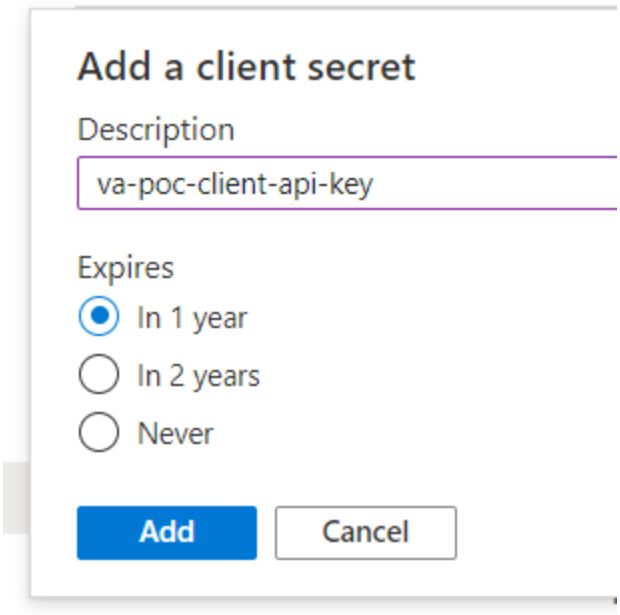
Application.properties:

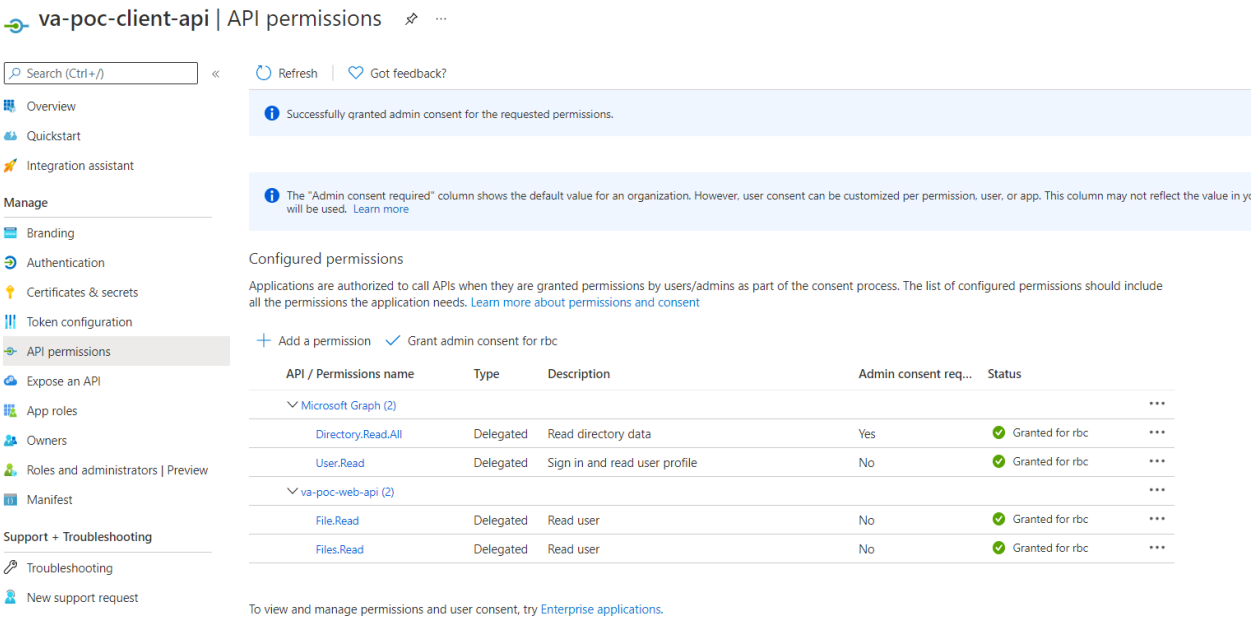
```
# Specifies your Active Directory ID:
azure.activedirectory.tenant-id=4533b917-a939-46b1-ada3-d18e7c400b0a
# Specifies your App Registration's Application ID:
azure.activedirectory.client-id=a9c8d331-bdbf-458c-b861-b1878c73eeb1
  # Specifies your App Registration's secret key:
azure.activedirectory.client-secret=03~ndMNaj6M_DYNW-U~8t0.hJjv_LkHwG.
#demo-web-api azure.activedirectory.client-secret=4FKZ2L5.Lw2I~n---2Hu5M2Zh2F
# Specifies the list of Active Directory groups to use for authorization:
#azure.activedirectory.user-group.allowed-groups=group1

#azure.activedirectory.authorization-clients.graph.scopes=https://graph.microsoft.com/User.Read
server.port=8080
```

Client/web app:







Generated Token using Client -api information:

client id : 4533b917-a939-46b1-ada3-d18e7c400b0a
secret : iMJPiHqn~6-uP_.J3-EMehw93.qjhBkh0z
redirect uri: http://localhost:8080/login/oauth2/code/
auth url: https://login.microsoftonline.com/4533b917-a939-46b1-ada3-d18e7c400b0a/oauth2/v2.0/authorize
token url: https://login.microsoftonline.com/4533b917-a939-46b1-ada3-d18e7c400b0a/oauth2/v2.0/token
scope: https://va-poc-web-api/File.Read