Swissdec @ GovTech Hackathon 2024

Erkenntnisse

- Das eigentliche Problem liegt woanders (SOAP mit Sicherheit in .Net ist schmerzhaft)

- Swissdec muss gewisse Entscheidungen überdenken

- Die Challenge muss attraktiver sein, um mehr zu mobilisieren

Prototyp API

Prototyp Code

```csharp
using System.Security.Cryptography;
using System.Security.Cryptography.X509Certificates;

1 reference | - changes | -authors, -changes
static X509Certificate2 CreateSelfSignedCertificate(string subjectName)
{
    using var rsaKey = RSA.Create(2048);
    var certificateRequest = new CertificateRequest(subjectName, rsaKey, HashAlgorithmName.SHA256, RSASignaturePadding.Pkcs1);
    var notBefore = DateTimeOffset.UtcNow;
    var notAfter = notBefore.AddMonths(1);
    return certificateRequest.CreateSelfSigned(notBefore, notAfter);
}

var builder = WebApplication.CreateBuilder(args);
builder.Services.AddEndpointsApiExplorer();
builder.Services.AddSwaggerGen();

var app = builder.Build();
app.UseSwagger();
app.UseSwaggerUI();
app.MapPost("/certificate/request", async (CertificateRequestModel certificateRequestModel, HttpContext httpContext) =>
{
```

Prototyp Client

```
$curl "https://localhost:44380/certificate/request" -X POST -H "Content-Type: application/json" -d
"{\"commonName\":\"GovTechHackaton2024\", \"pfxpassword\":\"iamgod\"}" -o GovTechHackaton2024.pfx
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  2442    0  2382  100    60  12627    318 --:--:-- --:--:-- --:--:-- 12989

$certutil -dump GovTechHackaton2024.pfx
Geben Sie das PFX-Kennwort ein:

================ Zertifikat 0 ================
=========== Verschachtelungsebene 1 anfangen ==========
Element 0:
Seriennummer: a1d39a8a99f6b279
Aussteller: CN=GovTechHackaton2024
```

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