Node.js Validator

fork and edit tutorial (https://github.ibm.com/MFPSamples/DevCenter/tree/master/tutorials/en/foundation/8.0/authentication-and-security/protecting-external-resources/node-js/index.md) | report issue (https://github.ibm.com/MFPSamples/DevCenter/issues/new)

Overview

MobileFirst Foundation provides a Node.js framework to enforce security capabilities on external resources.

The Node.js framework is provided as an npm module (passport-mfp-token-validation).

This tutorial will show how to protect a simple Node.js resource, GetBalance, using a scope (accessRestricted).

Prerequesites:

- Make sure to read the Using the MobileFirst Server to authenticate external resources (../) tutorial.
- Understanding of the MobileFirst Platform Foundation security framework (../../).

The passport-mfp-token-validation module

The passport-mfp-token-validation module provides an authentication mechanism to verify access tokens that are issued by the MobileFirst Server.

To install the module run:

```
npm install passport-mfp-token-validation
```

Usage

• The sample uses the express and passport-mfp-token-validation modules:

```
var express = require('express');
var passport = require('passport-mfp-token-validation').Passport;
var mfpStrategy = require('passport-mfp-token-validation').Strategy;
```

Setup the Strategy as follows:

```
passport.use(new mfpStrategy({
    authServerUrl: 'http://localhost:9080/mfp/api',
    confClientID: 'testclient',
    confClientPass: 'testclient',
    analytics: {
        onpremise: {
            url: 'http://localhost:9080/analytics-service/rest/v3',
            username: 'admin',
            password: 'admin'
        }
    }
})));
```

o authServerUrl: Replace localhost: 9080 with your MobileFirst Server IP address and

port number.

- o confClientID, confClientPass: Replace the confidential client ID and password with the ones you defined in the MobileFirst Operations Console.
- analytics: The analytics item is optional and only required if you wish to log analytics events to MFP.

Replace localhost: 9080, username and password with your Analytics Server IP address, port number, username and password.

Authenticate requests by calling passport.authenticate:

```
var app = express();
app.use(passport.initialize());

app.get('/getBalance', passport.authenticate('mobilefirst-strategy', {
    session: false,
    scope: 'accessRestricted'
}),
function(req, res) {
    res.send('17364.9');
});

var server = app.listen(3000, function() {
    var port = server.address().port
    console.log("Sample app listening at http://localhost:%s", port)
});
```

- The Strategy to employ should be mobilefirst-strategy.
- Set session to false.
- Specify the scope name.

Sample

Download the Node.js sample (https://github.com/MobileFirst-Platform-Developer-Center/NodeJSValidator/tree/release80).

Sample usage

- 1. Navigate to the sample's root folder and run the command: npm install followed by: npm start.
- 2. Make sure to update the confidential client (../#confidential-client) and secret values in the MobileFirst Operations Console.
- 3. Deploy either of the security checks: **UserLogin (../../user-authentication/security-check/)** or **PinCodeAttempts (../../credentials-validation/security-check/)**.
- 4. Register the matching application.
- 5. Map the accessRestricted scope to the security check.
- 6. Update the client application to make the WLResourceRequest to your servlet URL.