

ALM 16 introduced a security feature to mitigate the Cross-Site request forgery. This requires REST calls to include a X-XSRF-TOKEN. The following examples show how to make a REST call with the X-XSRF-TOKEN header.

1. Login

POST

<https://xxx.saas.microfocus.com/qcbin/rest/oauth2/login>

Header

Accept application/json

Content-Type application/json

Body

```
{
  "clientId": "apikey-dgkassditsfcejntofm",
  "secret": "xxxxxxx"
}
```

ALM 16 Demo / Login

POST <https://almorgdemo16.saas.microfocus.com/qcbin/rest/oauth2/login> Send

Params Authorization Headers (13) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "clientId": "apikey-chimnifdlannqkjgtdmo",
3   "secret": "xxxxxxx"
4 }
```

Body Cookies (5) Headers (12) Test Results (2/2) Status: 200 OK Time: 364 ms Size: 977 B Save Response

Pretty Raw Preview Visualize Text

1

Get the XSRF-TOKEN to be used for subsequent non GET requests.

POST <https://almorgdemo16.saas.microfocus.com/qcbin/rest/oauth2/login> Send

Params Authorization Headers (13) Body Pre-request Script Tests Settings

Headers <> 11 Hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Accept	application/json	
<input checked="" type="checkbox"/> Content-Type	application/json	

Body Cookies (5) Headers (11) Test Results (2/2) Status: 200 OK Time: 110 ms Size: 882 B Save Response

Name	Value	Domain	Path	Expires	HttpOnly	Secure
JSESSIONID	node0180x8f...	almorgdemo1...	/qcbin	Session	true	false
ALM_USER	5a1f3f9a9db...	almorgdemo1...	/	Session	false	false
LWSSO_COO...	OxCnXotWmf...	almorgdemo1...	/	Session	true	false
QCSession	NTY2NzUyN...	almorgdemo1...	/	Session	true	false
XSRF-TOKEN	406a25025e...	almorgdemo1...	/	Session	false	false

2. List an example defect to get the fields available

GET

https://xxx.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects

Header

Accept application/xml

GET https://almorgdemo16.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Headers 8 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Accept	application/xml	
Key	Value	Description

Body Cookies (5) Headers (11) Test Results Status: 200 OK Time: 494 ms Size: 200.2 KB Save Response

Pretty Raw Preview Visualize XML

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <Entities TotalResults="64">
3   <Entity Type="defect">
4     <ChildrenCount>
5       <Value>0</Value>
6     </ChildrenCount>
7     <Fields>
8       <Field Name="detection-version">
9         <Value></Value>
10      </Field>
11      <Field Name="subject">
12        <Value>1136</Value>
13      </Field>
14      <Field Name="description">
15        <Value>&lt;html&gt;&lt;body&gt;
16  Test Set: Mercury Tours Functionality
```

3. Perform a query on Defects

GET

https://xxx.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects?fields=name,id,status&query={id}>1;owner['saas_tphan'];status['New' OR 'Open']}

Header

Accept application/xml

GET https://almorgdemo16.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects?fields=name,id,status&query={id}>1;owner['saas_tphan'];status['New' OR 'Open']} Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Headers 8 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Content-Type	application/xml	
Key	Value	Description

Body Cookies (5) Headers (11) Test Results Status: 200 OK Time: 232 ms Size: 1.27 KB Save Response

Pretty Raw Preview Visualize XML

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <Entities TotalResults="2">
3   <Entity Type="defect">
4     <ChildrenCount>
5       <Value>0</Value>
6     </ChildrenCount>
7     <Fields>
8       <Field Name="name">
9         <Value>Defect 1</Value>
10      </Field>
11      <Field Name="id">
12        <Value>99</Value>
13      </Field>
14      <Field Name="status">
15        <Value>New</Value>
16      </Field>
17    </Fields>
18    <RelatedEntities/>
19  </Entity>
20  <Entity Type="defect">
21    <ChildrenCount>
22      <Value>0</Value>
```

Note: X-XSRF-TOKEN is not required for GET requests.

4. Add a Defect

POST

https://xxx.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects

Header

Accept application/xml

Content-Type application/xml

X-XSRF-TOKEN <value from XSRF-TOKEN cookie returned from login session>

Body

```
<Entity Type="defect">
  <Fields>
    <Field Name="detected-by">
      <Value>saas_tphan</Value>
    </Field>
    <Field Name="creation-time">
      <Value>2022-09-22</Value>
    </Field>
    <Field Name="severity">
      <Value>2-Medium</Value>
    </Field>
    <Field Name="status">
      <Value>New</Value>
    </Field>
    <Field Name="name">
      <Value>Defect for thanh</Value>
    </Field>
    <Field Name="target-rcyc">
      <Value ReferenceValue="Cycle 1 - New Features">1001</Value>
    </Field>
    <Field Name="target-rel">
      <Value ReferenceValue="Release 10.5">1001</Value>
    </Field>
    <Field Name="user-01">
      <Value>Booking System</Value>
    </Field>
    <Field Name="user-05">
      <Value>Defect</Value>
    </Field>
  </Fields>
</Entity>
```

KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> Accept	application/xml				
<input checked="" type="checkbox"/> Content-Type	application/xml				
<input checked="" type="checkbox"/> X-XSRF-TOKEN	406a25025e1f64561ea22bd74417d9fdd597cedc149cce260c00152c230885c8				

POST https://almorgdemo16.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects Send

Params Authorization Headers (13) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL XML

```

1 <Entity Type="defect">
2   <Fields>
3     <Field Name="detected-by">
4       <Value>saas_tphan</Value>
5     </Field>
6     <Field Name="creation-time">
7       <Value>2022-09-22</Value>
8     </Field>
9     <Field Name="severity">
10      <Value>2-Medium</Value>
11    </Field>
12    <Field Name="status">
13      <Value>New</Value>
14    </Field>
15    <Field Name="name">
16      <Value>Defect for thanh</Value>
17    </Field>
18    <Field Name="target-rcyc">
19      <Value ReferenceValue="Cycle 1 - New Features">1001</Value>
20    </Field>
21    <Field Name="target-rel">
22      <Value ReferenceValue="Release 10.5">1001</Value>
23    </Field>
24    <Field Name="user-01">
25      <Value>Booking System</Value>
26    </Field>
27    <Field Name="user-05">
28      <Value>Defect</Value>
29    </Field>
30  </Fields>
31 </Entity>
32

```

Body Cookies (5) Headers (10) Test Results Status: 201 Created Time: 225 ms Size: 3.04 KB Save Response

Pretty Raw Preview Visualize XML

```

1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <Entity Type="defect">
3   <ChildrenCount>
4     <Value>8</Value>
5   </ChildrenCount>
6   <Fields>
7     <Field Name="detection-version">
8       <Value></Value>
9     </Field>

```

Notes: You will need to add a value for all require fields. Notice that you need to provide the X-XSRF-TOKEN. The value from this parameter comes from the response of the login request.

5. Update a Defect

PUT

https://xxx.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects/11

Header

Accept application/xml

Content-Type application/xml

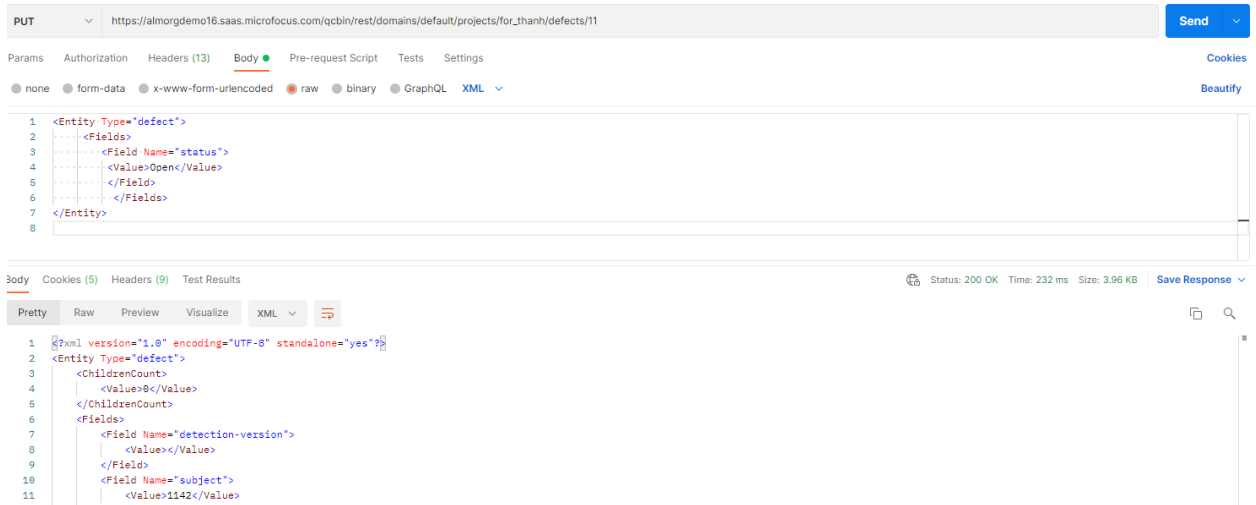
X-XSRF-TOKEN <value from XSRF-TOKEN cookie returned from login session>

Body

```

<Entity Type="defect">
  <Fields>
    <Field Name="status">
      <Value>Open</Value>
    </Field>
  </Fields>
</Entity>

```



6. Delete a defect

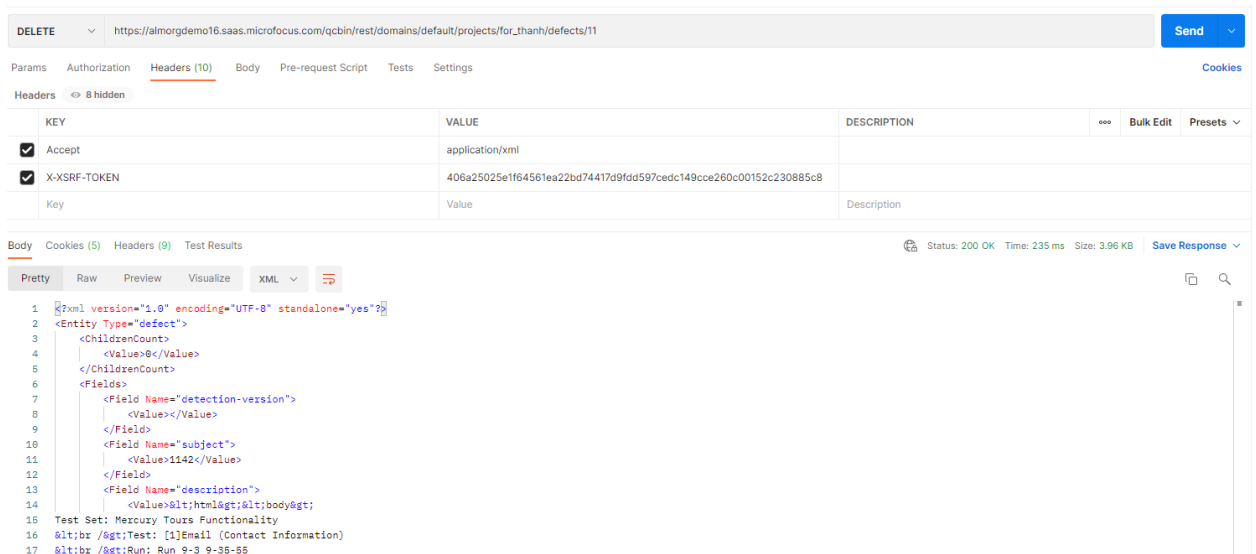
DELETE

https://xxx.saas.microfocus.com/qcbin/rest/domains/default/projects/for_thanh/defects/11

Header

Accept application/xml

X-XSRF-TOKEN <value from XSRF-TOKEN cookie returned from login session>



7. Logout

POST

<https://xxx.saas.microfocus.com/qcbin/authentication-point/logout>

POST

https://almorgdemo16.saas.microfocus.com/qcbin/authentication-point/logout

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body

Cookies (1)

Headers (11)

Test Results

Status: 200 OK

Tir

Pretty

Raw

Preview

Visualize

Text

1