

## Peter Judge

- Senior Architect at Consultingwerk
- Writing 4GL since 1996, working on a variety of frameworks and applications. More recently have worked on a lot of integration-y stuff: Authentication Gateway, HTTP Client, Web Handlers. Dabble in PASOE migrations.
- Active participator in Progress communities, PUGs and other events



## Consultingwerk Software Services Ltd.

- Independent IT consulting organization
- Focusing on OpenEdge and related technology
- Located in Cologne, Germany, subsidiaries in UK, USA and Romania
- Customers in Europe, North America, Australia and South Africa
- Vendor of developer tools and consulting services
- Specialized in GUI for .NET, Angular, OO, Software Architecture, Application Integration
- Experts in OpenEdge Application Modernization



## Services Portfolio, Progress Software

- OpenEdge (ABL, Developer Tools, Database, PASOE, ...)
- Telerik DevCraft (.NET, Kendo UI, Angular, ...), Telerik Reporting
- OpenEdge UltraControls (Infragistics .NET)
- Telerik Sitefinity CMS (incl. integration with OpenEdge applications)
- Kinvey Plattform, NativeScript
- Corticon BRMS
- Whatsup Gold infrastructure-, network- and application monitoring
- Kemp Loadmaster
- **.** . . .

## Services Portfolio, related products

- Protop Database Monitoring
- Combit List & Label
- Web frameworks, e.g. Angular
- .NET
- Java
- ElasticSearch, Lucene
- Amazon AWS, Azure
- DevOps, Docker, Jenkins, ANT, Gradle, JIRA, ...
- **.** . . .

### What is Jira?

Jira Software is part of a family of products designed to help teams of all types manage work. Originally, Jira was designed as a bug and issue tracker. But today, Jira has evolved into a powerful work management tool for all kinds of use cases, from requirements and test case management to agile software development.

https://www.atlassian.com/software/jira/guides/use-cases/what-is-jira-used-for#jira-for-agile-teams

- For some, Jira is life.
- For some, Jira is heaven; for others, hell.



#### Doesn't Jira Have It All?

- At Consultingwerk, we need to talk to Jira to
  - Prepare release notes for a release (pull from Jira)
  - Update tickets with change sets from Perforce
- Jira provides a RESTful API at <a href="https://docs.atlassian.com/jira-software/REST/7.3.1/">https://docs.atlassian.com/jira-software/REST/7.3.1/</a>
- ... and since we're an ABL shop, we use the ABL HTTP Client

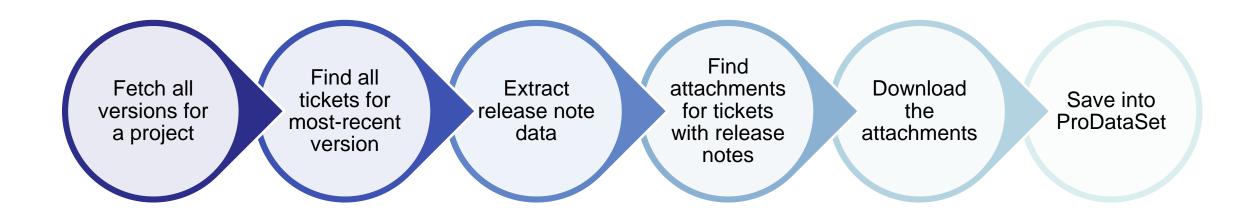


#### **ABL HTTP Client**

- Part of the OpenEdge product since 11.5
- Designed to be a REST client
- Platform independent
- Good with JSON

```
DEFINE VARIABLE hc AS IHttpClient NO-UNDO.
DEFINE VARIABLE reg AS IHttpRequest NO-UNDO.
DEFINE VARIABLE resp AS IHttpResponse NO-UNDO.
DEFINE VARIABLE body AS JsonObject NO-UNDO.
// reusable client
hc = ClientBuilder:Build():Client.
body = NEW JsonObject().
body:Add('conference', 'PUG Challenge').
body:Add('city', 'Vienna').
body:Add('country', 'Austria').
// single request to POST some JSON
req = RequestBuilder:Post("http://httpbin.org/post", body)
                    :Request.
// Run the request
resp = hc:Execute(req).
// process the response
IF TYPE-OF(resp:Entity, JsonConstruct) THEN
    CAST(resp:Entity, JsonConstruct):WriteFile("data.json", YES).
```

# **Generating release notes**



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### **Gotchas**

- Authentication is via HTTP basic authentication ... but not using your account password ...
  - Use an API token <a href="https://support.atlassian.com/atlassian-account/#use-an-account/docs/manage-api-tokens-for-your-atlassian-account/#use-an-API-token">https://support.atlassian.com/atlassian-account/#use-an-account/docs/manage-api-tokens-for-your-atlassian-account/#use-an-API-token</a>
- Issues in the HTTP Client
  - In the server connection (relating to HTTPS)
  - In the client redirects

### Consultingwerk

software architecture and development



### Fin

- Read the docs
  - API token doc is good
  - REST API doc is less good
- Jira REST is reasonably RESTful; once you have a thread, you can usually figure the path out
- One "logical record" is made up of 4+ REST calls
- Watch out for redirects & issues in the HTTP client



### Consultingwerk

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K, N, O, W, L, E, D, G, A, B, L, E,

software architecture and development

```
P<sub>3</sub> R<sub>1</sub> O<sub>1</sub> D<sub>2</sub> U<sub>1</sub> C<sub>3</sub> T<sub>1</sub> I<sub>1</sub> V<sub>4</sub> E<sub>1</sub>
                                              P, R, O, F, E, S, S, I, O, N, A, L,
P, R, O, B, L, E, M, S, O, L, V, I, N, G,
                                                        S, M, A, R, T,
                                              E, D, U, C, A, T, I, O, N,
                                                        L, E, A, D, I, N, G,
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                 P<sub>s</sub> R<sub>i</sub> O<sub>i</sub> A<sub>i</sub> C<sub>s</sub> T<sub>i</sub> I<sub>i</sub> V<sub>i</sub> E<sub>i</sub>
                                                        R, E, M, A, R, K, A, B, L, E,
```

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