

Boomi Community High Ed User Group

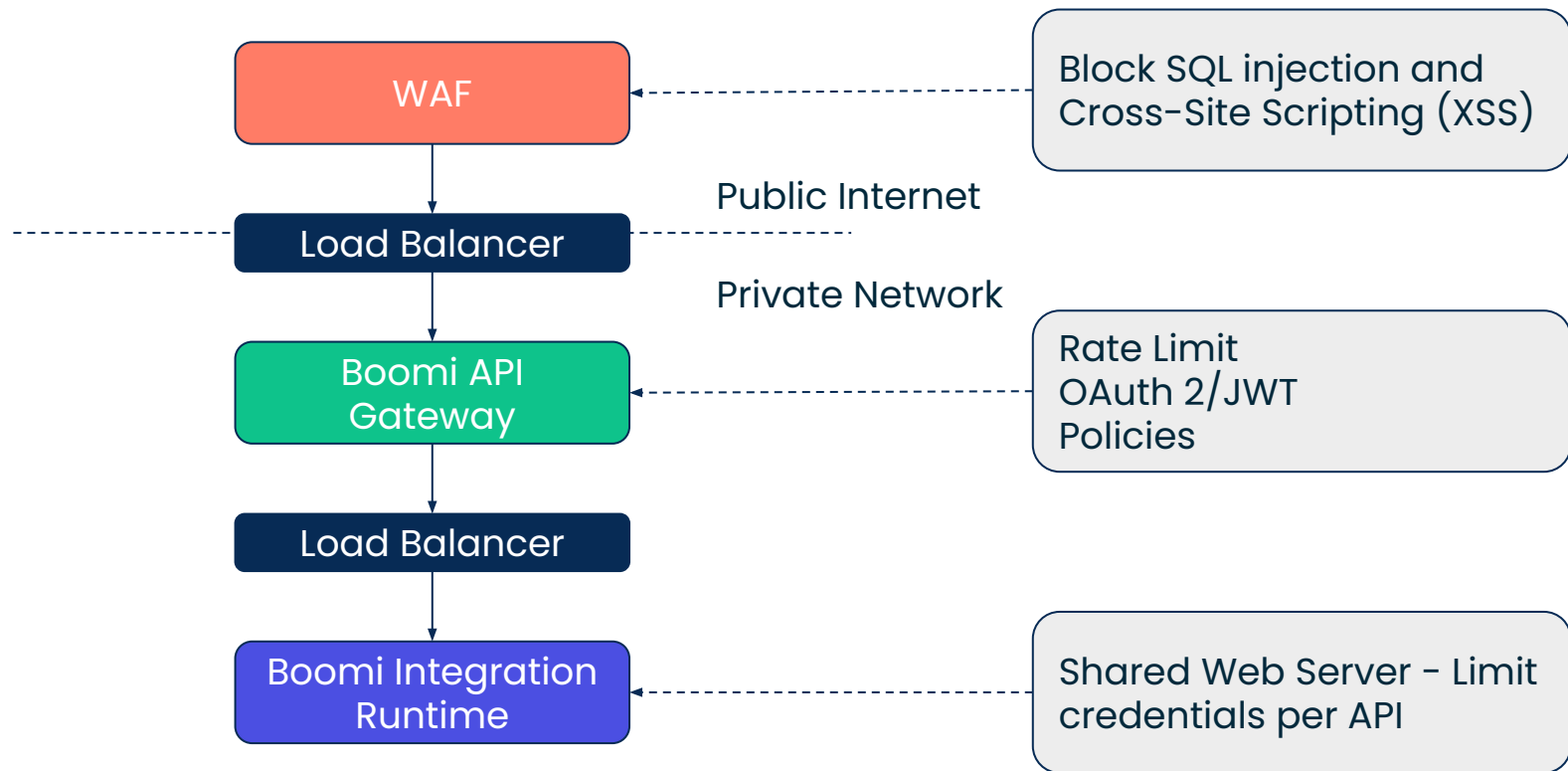
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Platform Architect

boomi

Agenda

- 01 Best Practice for Securing Boomi APIs
- 02 Database V2 Connector approaches and "gotcha"
- 03 Data Security
- 04 Folder Permissions

Best Practice for Securing Boomi APIs



Database V2 Connector approaches and "gotcha"

DBv2 Query Database V2 Operation

Click Import Operation to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Connector Action GET

Object cisco (TABLE)

Request Profile Database V2 cisco (TABLE) GET Request

Response Profile Database V2 cisco (TABLE) GET Response

Tracking Direction ☒ Input Documents ☐ Output Documents

Error Behavior ☐ Return Application Error Responses

Get Operation Type **Dynamic Get**

Include IN Clause ☐

Schema Name

SQL Query select id, name, created_at from cisco;

Link Element

Max Rows

Max Field Size

Batch Count

Fetch Size

Does nothing
when Dynamic
Get

DBv2 Query Database V2 Operation

Click Import Operation to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Connector Action GET

Object cisco (TABLE)

Request Profile Database V2 cisco (TABLE) GET Request

Response Profile Database V2 cisco (TABLE) GET Response

Tracking Direction ☒ Input Documents ☐ Output Documents

Error Behavior ☐ Return Application Error Responses

Get Operation Type **Standard Get**

Include IN Clause ☐

Schema Name

SQL Query select id, name, created_at from cisco;

Link Element

Max Rows

Max Field Size

Batch Count

Fetch Size

Runs SQL Query
with Standard
Get

Database V2 Connector approaches and "gotcha"

- The queries are tied to the imported table.
- You can not just a select statement and it gets executed.

DBv2 Query Database V2 Operation

Click Import Operation to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Connector Action GET

Object cisco (TABLE)

Request Profile Database V2 cisco (TABLE) GET Request

Response Profile Database V2 cisco (TABLE) GET Response

Tracking Direction ☒ Input Documents ☐ Output Documents

Error Behavior ☐ Return Application Error Responses

Get Operation Type **Standard Get**

Include IN Clause ☐

Schema Name

SQL Query select id, name, created_at from cisco where id = \$id;

Database V2 Connector approaches and "gotcha"

Example from Map



Import the table with Enable SQL Query checked will create a SQLQuery element. Any statement with the same table can be executed.

Database V2 Connector approaches and "gotcha"

The screenshot shows the 'DBv2 Query' configuration window. At the top, there's a title bar with a lightning bolt icon, the text 'DBv2 Query', and a subtitle 'Database V2 Operation'. Below this is a button labeled 'Import Operation'. The main area has tabs for 'Options', 'Archiving', 'Tracking', and 'Caching', with 'Options' selected. Under 'Options', there's a 'Connector Action' dropdown set to 'GET'. Below that are fields for 'Object' (cisco (TABLE)), 'Request Profile' (Database V2 cisco (TABLE) GET Request), and 'Response Profile' (Database V2 cisco (TABLE) GET Response). There are radio buttons for 'Tracking Direction' (Input Documents selected) and a checkbox for 'Error Behavior' (Return Application Error Responses). A 'Get Operation Type' dropdown is set to 'Standard Get'. An 'Include IN Clause' checkbox is unchecked. The 'Schema Name' field is empty. The 'SQL Query' field contains the text 'select id, name, created_at from cisco where id = \$id;', with 'created_at' underlined in red and '\$id;' circled in red.

DBv2 Query Database V2 Operation

Click Import Operation to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Connector Action GET

Object cisco (TABLE)

Request Profile Database V2 cisco (TABLE) GET Request

Response Profile Database V2 cisco (TABLE) GET Response

Tracking Direction ☒ Input Documents ☐ Output Documents

Error Behavior ☐ Return Application Error Responses

Get Operation Type Standard Get

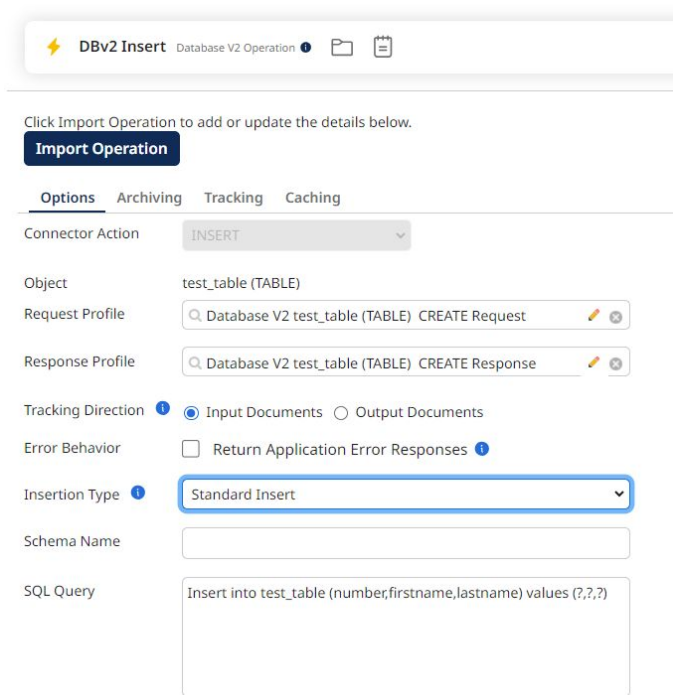
Include IN Clause ☐

Schema Name

SQL Query select id, name, created_at from cisco where id = \$id;

- Queries use \$ signs to represent variables.
- All other operations use ?

Database V2 Connector approaches and "gotcha"



The screenshot shows the 'DBv2 Insert' configuration window. At the top, there's a header bar with a lightning bolt icon, the title 'DBv2 Insert', and a subtitle 'Database V2 Operation'. Below this is a button labeled 'Import Operation'. The main configuration area has tabs for 'Options', 'Archiving', 'Tracking', and 'Caching', with 'Options' being the active tab. Under 'Options', there's a 'Connector Action' dropdown set to 'INSERT'. The 'Object' field is 'test_table (TABLE)'. The 'Request Profile' and 'Response Profile' fields both show a search icon, the text 'Database V2 test_table (TABLE) CREATE Request' and 'Database V2 test_table (TABLE) CREATE Response' respectively, and edit/delete icons. The 'Tracking Direction' section has two radio buttons: 'Input Documents' (selected) and 'Output Documents'. The 'Error Behavior' section has a checkbox for 'Return Application Error Responses'. The 'Insertion Type' dropdown is set to 'Standard Insert' and is highlighted with a blue border. The 'Schema Name' field is empty. The 'SQL Query' field contains the text 'Insert into test_table (number,firstname,lastname) values (?,?,?)'.

DBv2 Insert Database V2 Operation

Click [Import Operation](#) to add or update the details below.

Import Operation

Options Archiving Tracking Caching

Connector Action: INSERT

Object: test_table (TABLE)

Request Profile: Database V2 test_table (TABLE) CREATE Request

Response Profile: Database V2 test_table (TABLE) CREATE Response

Tracking Direction: ☒ Input Documents ☐ Output Documents

Error Behavior: ☐ Return Application Error Responses

Insertion Type: Standard Insert

Schema Name:

SQL Query: Insert into test_table (number,firstname,lastname) values (?,?,?)

- Queries use \$ signs to represent variables.
- All other operations use ?



Data security

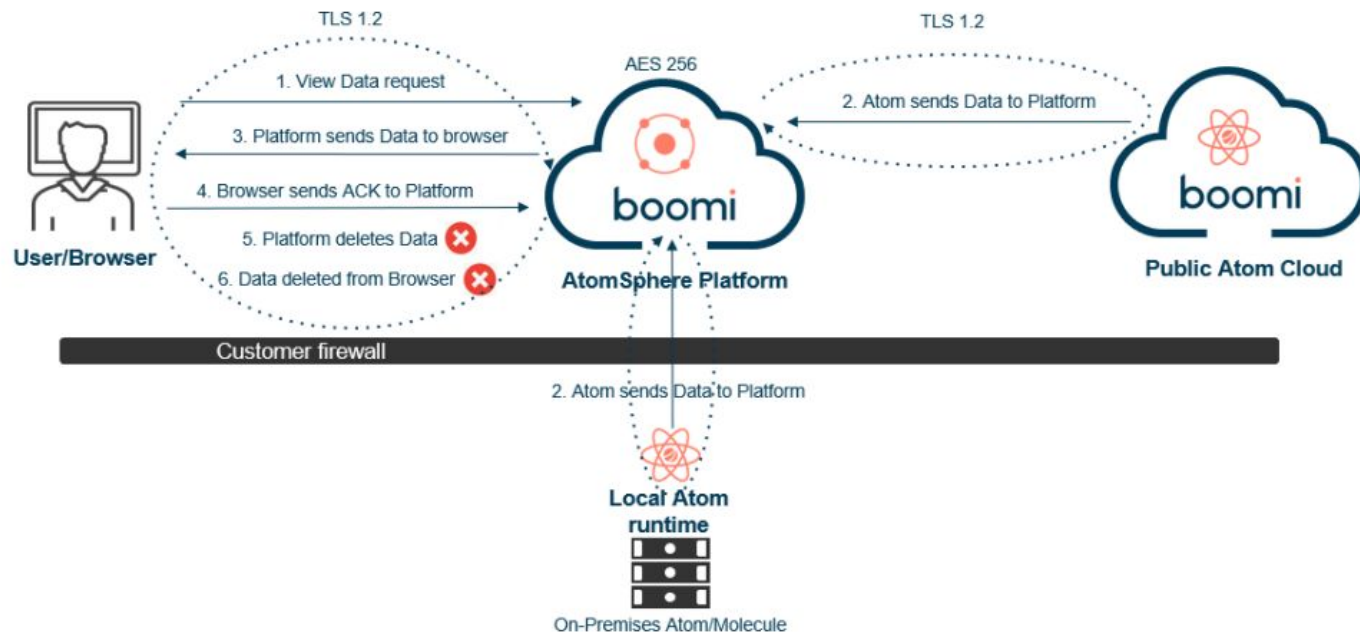
- Account Data Security
 - Build tab – Very little limitation.
 - Roles with Access to limit Prod.
 - Parent-Child accounts to isolate orgs
- Platform Data Security
 - Runtime polls Platform with TLS 1.2 256 bit Encryption
 - Boomi saves metadata
 - Documents are only send through the Platform when documents are requested by the user to view. Docs are never retained.

<https://boomi.com/wp-content/uploads/Boomi-Data-Flows-Doc.pdf>

Data security

View Data

The [View Data](#) privilege allows authorized users to view the raw data of a successful integration process. Customers can create a [custom role](#) for restricting access to data and documents.





Folder Permissions

General Considerations

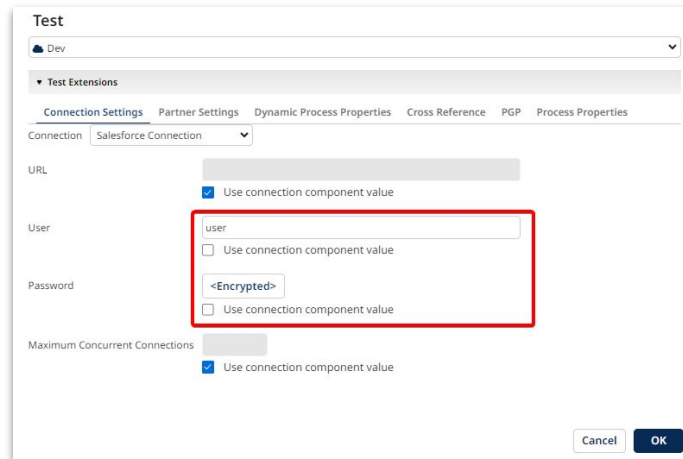
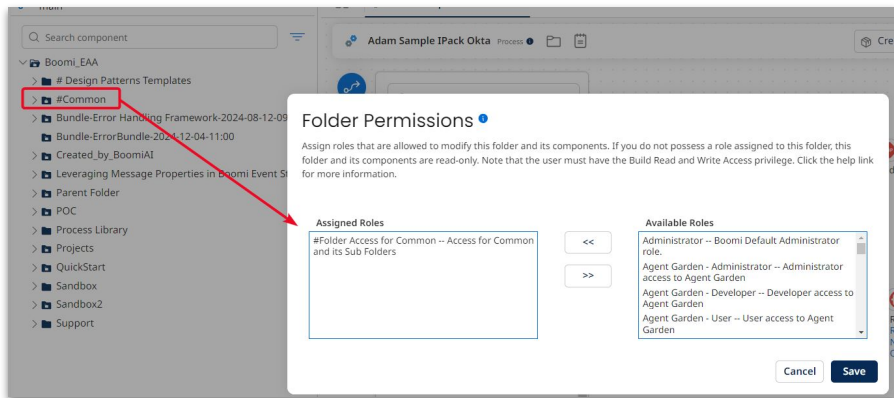
Boomi is a shared development environment. Although folder permissions can be setup to restrict edit access, the following should be considered:

- All developers within an AtomSphere account that have been granted read and write permissions to the build tab will have READ access to ALL components on the build space. All developers can:
 - Build and run any process.
 - Utilize any component.
- Folder permissions can be utilized to force developers to work in specific folders
 - Permissions do not cascade down folders.
 - Locked components can be utilized (viewed, copied, executed) by all developers, however editing or moving those components is restricted.
 - Locked components can be copied (and the copied components can be edited).

Folder Permissions

Shared Folders & Components

- A shared folder can be utilized to share common templates, processes, profiles, services, functions, etc. for reusability.
- Developers can run tests using any component on the runtime environment to which they have access:
 - Developers must have access to a runtime (Atom, Molecule, etc.) to execute / unit test the process.
 - Any saved credentials in connector components would be leveraged.
 - Any overrides used in test mode by any developer would be saved and accessible to other developers to test with as well.



The background features a smooth color gradient from a deep magenta on the left to a bright orange on the right. On the left side, there is a large, semi-circular graphic composed of numerous thin, wavy, horizontal lines in a lighter shade of magenta. A smaller, similar graphic is located in the bottom right corner.

Thank you