

♦ Level 3 – Advanced Developer Role (L3)

What is the difference between GlideRecord and GlideAggregate?

GlideRecord is used for general database operations like reading, writing, and updating records. GlideAggregate is a subclass of GlideRecord that's used to perform database aggregation operations such as COUNT, SUM, AVG, etc. efficiently.

What is the use of Async Business Rules and when to use them?

Async Business Rules run in the background after the database action is complete. They're useful for non-critical tasks like sending notifications or updating related records, where user wait time is not a concern.

What is the purpose of the Display Business Rule?

Display Business Rules run when a form loads and are used to pass data from the server to the client side using g_scratchpad. This is useful for pre-loading values into client scripts.

How can you call a Script Include from a Client Script?

You can use GlideAjax to call a Script Include. The Script Include must be client-callable (set to Client Callable = true) and include a type: 'class' structure.

What are Scoped Applications and how are they different from Global applications?

Scoped Applications are isolated from other applications in terms of scripts and tables. They are useful in multi-developer or vendor-built apps. Global apps share scripts and resources across the platform.

Explain the difference between Event and Notification in ServiceNow.

An Event is a system trigger that signals something has occurred. Notifications are used to respond to these events and send messages to users through various channels like email or SMS.

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What are Script Actions in ServiceNow?

Script Actions are server-side scripts that execute in response to Events. They allow you to execute complex logic after a specific system condition is met.

What is a Catalog Client Script and how is it different from normal Client Script?

Catalog Client Scripts are used specifically for Service Catalog items. They behave similarly to Client Scripts but are scoped to catalog forms and variables.

How can you secure data at the row and column level in ServiceNow?

Use Access Control Rules (ACLs) to secure table rows and specific fields (columns). You can define conditions, required roles, or scripts to restrict data access.

What are Scripted REST APIs and when do you use them?

Scripted REST APIs allow developers to define custom RESTful endpoints. They're used when out-of-the-box integration isn't enough and custom logic is needed.

What is the difference between Inbound and Outbound Web Services?

Inbound Web Services allow external systems to call ServiceNow (e.g., using REST/SOAP APIs). Outbound Web Services enable ServiceNow to call external systems.

What is a GlideRecordSecure?

GlideRecordSecure is similar to GlideRecord but automatically enforces ACL checks. It ensures that security rules are applied during data access.

How do you use try/catch in server-side scripting in ServiceNow?

Use try { ... } catch(ex) { gs.error(ex); } to handle exceptions gracefully and prevent script failures from affecting system performance.

How can you improve the performance of your scripts?

- Avoid unnecessary GlideRecord queries.
- Use indexed fields in filters.
- Batch updates using Scheduled Jobs.
- Avoid synchronous long-running scripts.



Explain Domain Separation and its implications in scripting.

In Domain-separated environments, your scripts must consider domain-specific data access and scoping. Use gs.getUserDomainID() and gs.getSession().currentDomainID when needed.

What is a Flow Designer Subflow and how is it used?

A Subflow is a reusable sequence of actions that can be called from other flows or subflows. It promotes modularity and reusability in workflow automation.

What are Caching strategies in ServiceNow scripting?

Use variables like g_scratchpad or GlideCache to temporarily store data during a session to avoid repetitive GlideRecord queries.

How do you test and debug Script Includes and Business Rules?

Use gs.info() statements and monitor output in system logs. You can also use Background Scripts to test Script Includes directly.

What is the best practice for writing Client Scripts?

- Avoid hardcoding values.
- Use g_form API efficiently.
- o Limit use of synchronous GlideAjax calls.
- Always test performance and impact on user experience.

Explain the difference between current and previous in Business Rules.

current refers to the record as it is being saved, while previous refers to the state of the record before any changes. This helps in detecting changes.

What is the use of Flow Logic like 'If' and 'For Each' in Flow Designer?

These logical controls allow conditional execution and iteration over a list of items within a flow. They are useful for branching and looping logic.

How do you pass data from a flow to a subflow?

You define input variables in the subflow and map them from the calling flow. The subflow can also return outputs to the parent flow.



What is Data Stream Action in IntegrationHub?

It is used to fetch and process large datasets from external systems incrementally, ideal for performance and avoiding timeout issues.

How do you control Script Include visibility in different scopes?

Set the Accessible from option to 'All application scopes' or 'This application scope only' depending on whether other scoped apps should access it.

What is the importance of Error Handling in Integration Scripts?

Error handling ensures that integrations can fail gracefully. Use try/catch blocks, log errors, and send alerts or fallback actions to avoid data loss or system failures.

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