

ServiceNow Application Developer

Server-side Scripting > Other Server-side Script Types

In this module you have learned to write, test, and debug Business Rules and Script Includes. There are many other types of server-side scripts. The primary difference between the script types is what triggers the script logic execution.

The table shows some commonly used server-side script types.

Script Type	Executes on	Description	Often used to
Business Rule	Database access	Execute logic when records are queried, updated, inserted, or deleted.	Validate data or set fields on other records in response to fields on the current record.
Script Include	Must be explicitly called	A library of reusable functions.	Validate format, retrieve shared records, and work with application properties.
Script Action	Events	Respond to an event.	Send email notifications or write logging information.
Scheduled Script Execution (also known as a Scheduled Job)	Time	Script logic executed on a time-based schedule.	Create reports: send daily, weekly, monthly, quarterly, and annual information. Execute script logic only on weekdays or weekends. Can also be run on demand so sometimes used for testing.
UI Actions	Users	Add buttons, links, and context menu items to forms and list to allow users to perform application-specific operations.	Enable users to perform actions such as navigating to another page, modifying records, or allowing operations such as saving.
Scripts - Background	admin users only (some instances require the <i>security_admin</i> role)	Execute server-side code on demand from a selectable scope. Scripts - Background should be used with caution because badly written scripts can damage the database.	Test scripts.
Fix Scripts	Application installation or upgrade	Make changes that are necessary for the data integrity or product stability.	Create or modify groups or user authorizations.
Notification Email Script	Notification	Execute when emails are generated to add content to the email content or configuration.	Add a CC or BCC email address, or query the database and write information to the message body.

Scripted REST APIs	Request sent or received through web services	Defines a web service endpoint	Return value(s) or a <i>JSON</i> object based on a calculation or database lookup(s)
UI Page Processing Script	Users	Executes when a UI Page is submitted.	Validating data, setting values etc.
Transform Map Script	Data import	Modifies or copies data or data format when records are imported.	Standardize date formats, fill in missing data, standardize values, map incoming values to database values for choice lists, set default values.

You can practice using additional server-side script types in other courses and modules on the ServiceNow developer site.