



Audit Record Deletions in Sensitive Tables

User Story: When records in sensitive tables (e.g., sys_user, incident, cmdb_ci) are deleted, automatically log the deletion details (who, when, what record) in a separate audit table. Additionally, notify the compliance team of any deletions for further review.

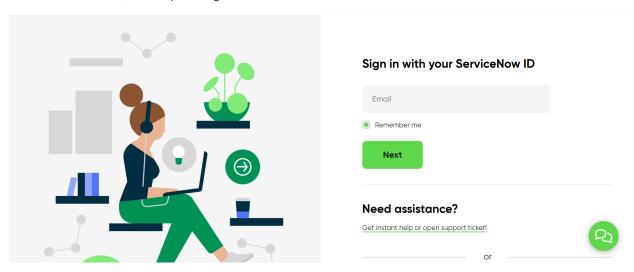
Objective: Automatically log details of record deletions in sensitive tables to maintain data integrity and ensure compliance. Notify the compliance team for timely review and action on deletion activities.

Skills: Business rule, Scripting, (GlideRecord), and notifications in ServiceNow.

Solution:

Step 1: Sign into ServiceNow.

servicenow. Developer Program



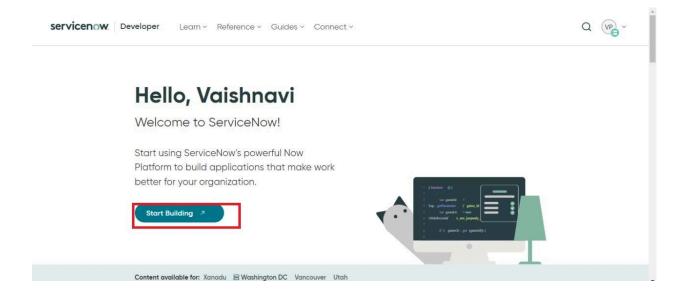
Step 2 : Sign up for a developer account on the ServiceNow Developer site "https://developer.servicenow.com".

Step 3 : Once logged in, navigate to the "Personal Developer Instance" section.

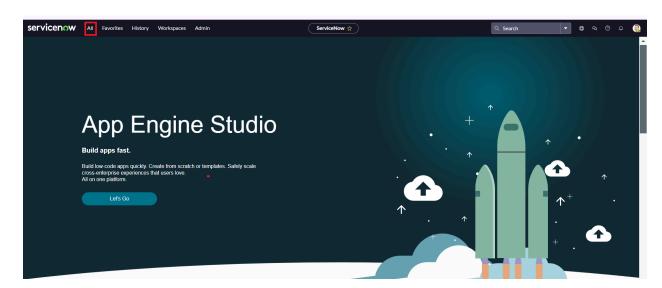
Click on "Request Instance" to create a new ServiceNow instance.







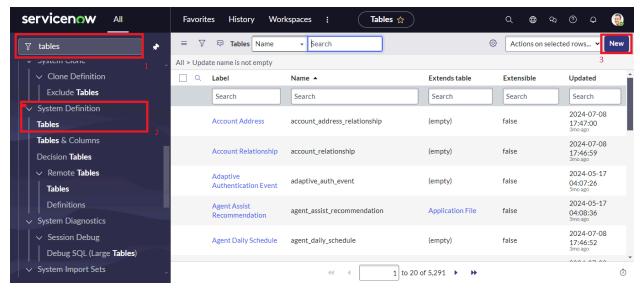
- **Step 4:** Fill out the required information and submit the request.
- **Step 5 :** You'll receive an email with the instance details once it's ready.
- **Step 6 :** Log in to your ServiceNow instance using the provided credentials. Now you will navigate to the ServiceNow.



 $\begin{tabular}{ll} Step 7: Open tables Under System Definition">>> Tables.Click on New. \\ \end{tabular}$

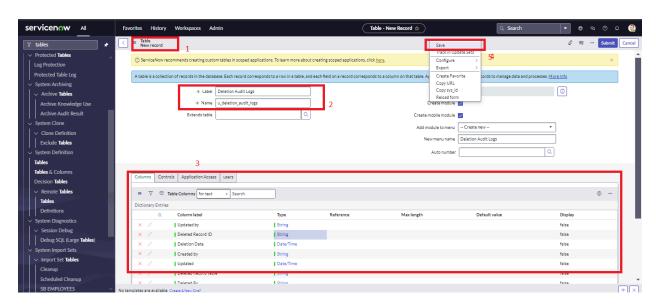






Step 8 : Fill the details as below

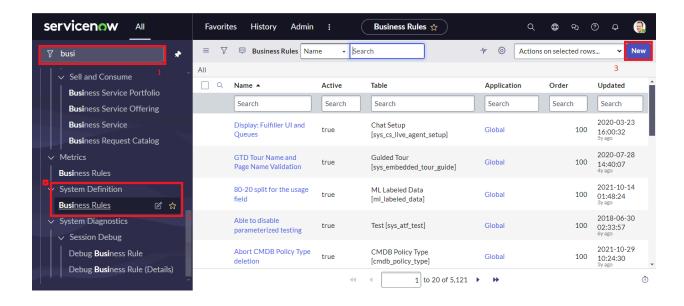
- A) Label: deletion audit logs
- B) Create fields deleted by, deletion date, deleted record date, deletion time.



Step 9: Open business rules Under System Definition" >> Business Rules

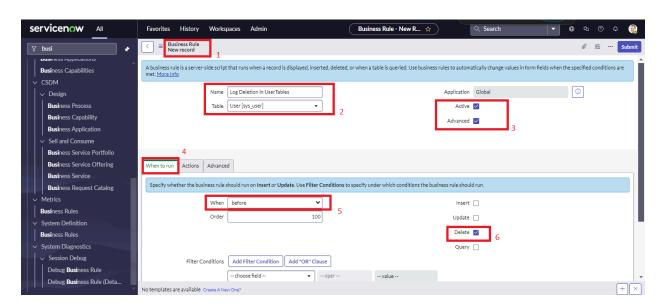






Step 10: Fill in the details as below.

- 1. Name: Log deletion in UserTables
- 2. Table : user[sys_user]
- 3. Check the active box
- 4. Under the when to run section select before and check delete box
- 5. Write business rule code in advanced section .Save and Submit.



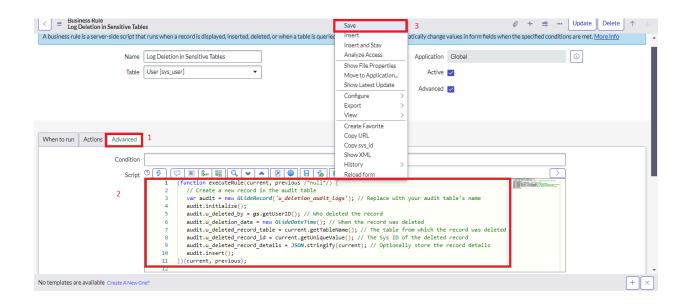
CODE:

(function executeRule(current, previous /*null*/) {





```
// Create a new record in the audit table
   var audit = new GlideRecord('u_deletion_audit_logs'); // Replace with
your audit table's name
   audit.initialize();
   audit.u_deleted_by = gs.getUserID(); // Who deleted the record
   audit.u_deletion_date = new GlideDateTime(); // When the record was
deleted
   audit.u_deleted_record_table = current.getTableName(); // The table
from which the record was deleted
   audit.u_deleted_record_id = current.getUniqueValue(); // The Sys ID of
the deleted record
   audit.u_deleted_record_details = JSON.stringify(current); // Optionally
store the record details
   audit.insert();
}) (current, previous);
```

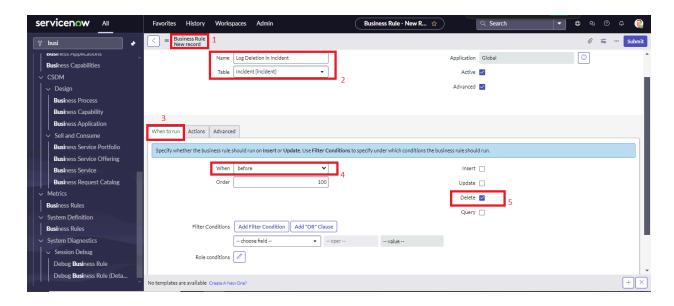


Step 11: Create a new business rule for the incident table. Fill in the details as below.

- 1. Name: Log deletion in Incident
- 2. Table : incident[incident]
- 3. Check the active box
- 4. Under the when to run section select before and check delete box
- 5. Write business rule code in advanced section .Save and Submit.





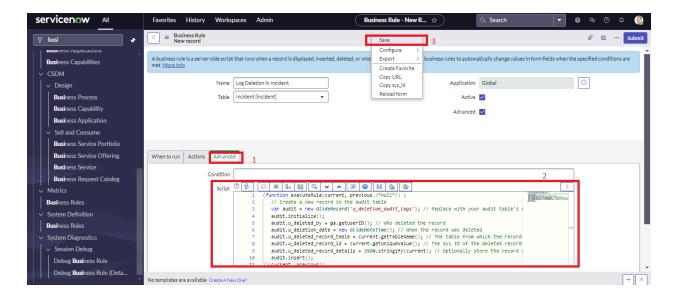


CODE:

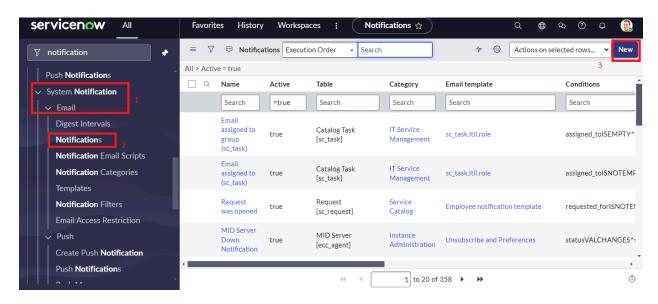
```
(function executeRule(current, previous /*null*/) {
   // Create a new record in the audit table
   var audit = new GlideRecord('u deletion audit logs'); // Replace with
your audit table's name
   audit.initialize();
   audit.u deleted by = gs.getUserID(); // Who deleted the record
   audit.u deletion date = new GlideDateTime(); // When the record was
deleted
   audit.u deleted record table = current.getTableName(); // The table
from which the record was deleted
   audit.u deleted record id = current.getUniqueValue(); // The Sys ID of
the deleted record
   audit.u deleted record details = JSON.stringify(current); // Optionally
store the record details
   audit.insert();
}) (current, previous);
```







Step 12 : Open notifications Under System Definition" >> Email>> Notifications. Click on new.

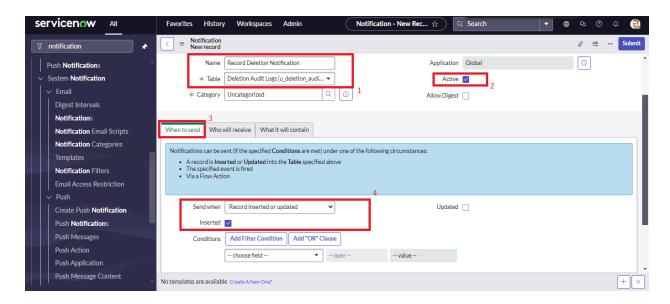


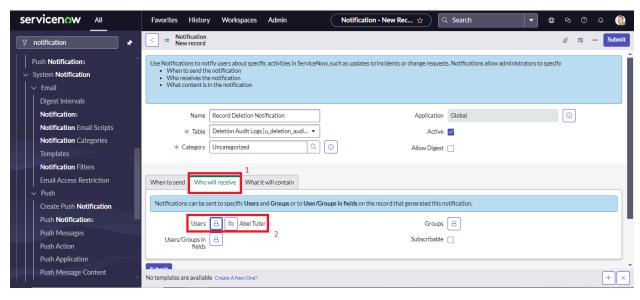
Step 13: Fill in the details in the

- 1. Name: Record deletion notification
- 2. Table: deletion audit logs table
- 3. when to send': record is inserted or updated
- 4. 'who will receive': select a user and
- 5. 'what will it contain': include the message



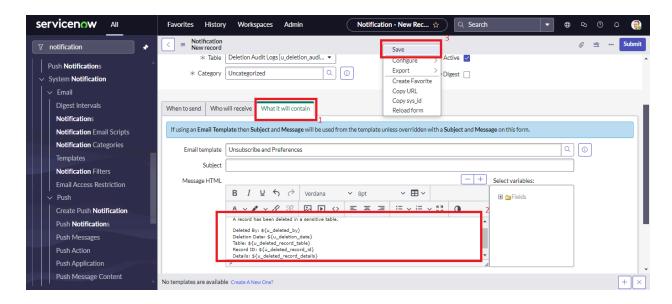












HTML Message:

A record has been deleted in a sensitive table.

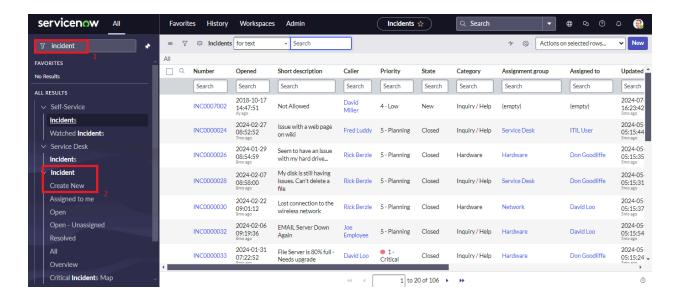
Deleted By: \${u_deleted_by} Deletion Date: \${u_deletion_date} Table: \${u_deleted_record_table} Record ID: \${u_deleted_record_id} Details: \${u_deleted_record_details}

Result:

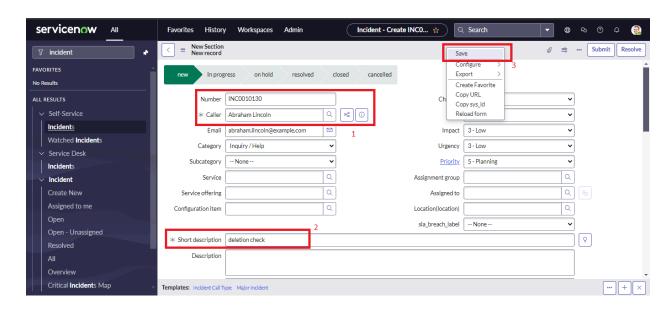
Step 1: Open incident >> all . Click on New.







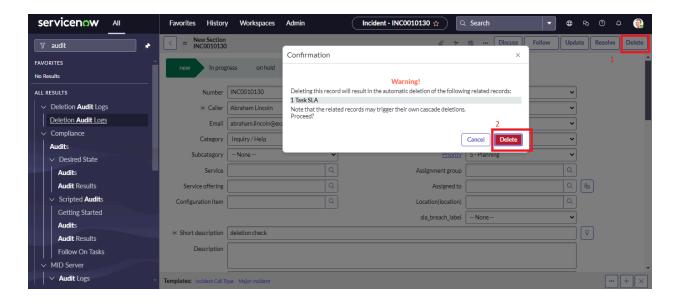
Step 2: Fill in the required details and save the incident.



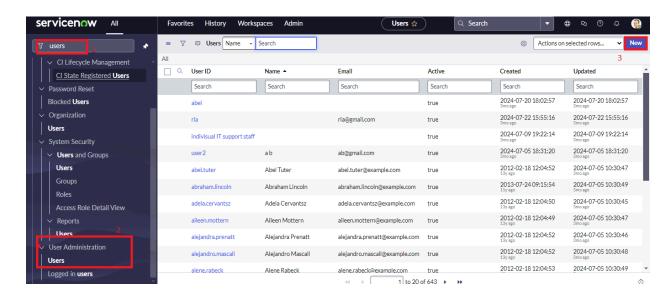
Step 3: Now delete the record which is created.





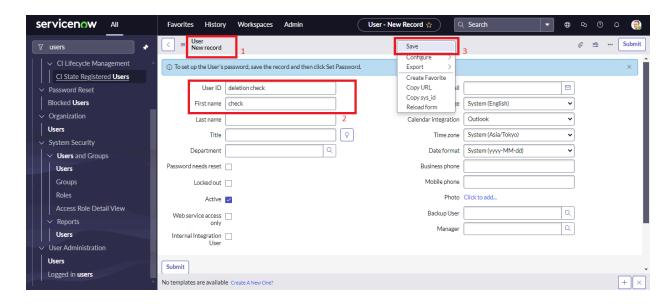


Step 4 : Open User Administration >> User. Click on New. Fill in the details and save the form.

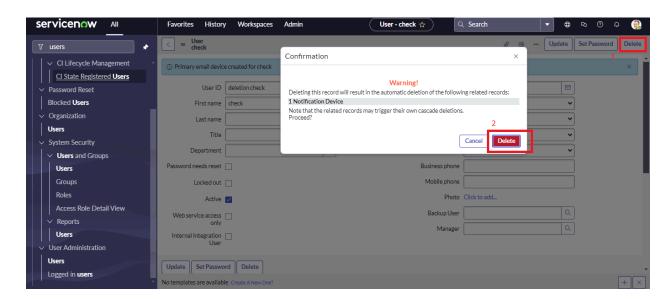








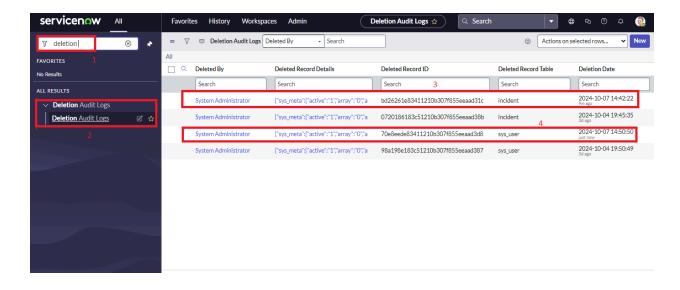
Step 5 : Now delete the user record which was created.



Step 6: Open Deletion Audit logs tables ,we can see the incident and user records which were deleted .







Step 7 : Open System logs >> email. You can see the email notification sent.

