graph_gitlab

```
DROP TABLE IF EXISTS test.t_tmp_node_vul_gitlab;
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
CREATE TABLE test.t_tmp_node_vul_gitlab AS
WITH wt_cwe_msg AS
(
    SELECT tmp1.uuid, jsonb_agg(tmp1.cwe_jsonb) AS cwe_jsonb_array
    FROM (
        SELECT jsonb_build_object('type', '', 'cweId', cwe_ids.value, 'description', '') AS cwe_jsonb, gc.file_
         FROM test.t_tmp_gitlab_craw gc,
         jsonb_array_elements(gc.file_msg -> 'cwe_ids') cwe_ids
    )tmp1
    GROUP BY tmp1.uuid
),
wt_gitlab_msg AS
(
    SELECT t.file_msg ->> 'uuid' AS id,
           t.file_msg ->> 'identifiers' AS alias,
           jsonb_build_object('discovery', '', 'identifier', t.file_msg ->> 'credit') AS source, --提供漏洞来源或
           jsonb_build_object('title', t.file_msg ->> 'title', 'details', t.file_msg ->> 'description') AS desc
           t.file_msg ->> 'cvss_v3' AS cvss_v3_av,
           t.file_msg ->> 'cvss_v2' AS cvss_v2_av , --(av : attack_vector)
           split_part(split_part((t.file_msg ->> 'cvss_v3'), '/', 1),':',2)  AS cvss_version_v3,
           '2.0'  AS cvss_version_v2,
           jsonb_build_object('published', t.file_msg ->> 'date', 'lastModified', t.file_msg ->> 'pubdate', 'da
           ('{"impact_info":{"impacts":null, "impactScore":null},
            "solution_info":"' || REPLACE( REPLACE( REPLACE( (t.file_msg ->> 'solution'), E'\n', ''), E'\r', ''
            "exploit_info":{"exploitable":null, "exploits":null, "exploit_url":null, "exploitabilityScore":null
            "PoC_info":{"PoC_available":null, "PoC":null, "PoC_url":null},
            "patch_info":{"patch_available":null, "patch_url":null},
            "report_status":""}')::jsonb AS vul_status,
            t.file_msg ->> 'identifier' AS identifier
    FROM  test.t_tmp_gitlab_craw t
)
SELECT nextval('cve_graph_seq') AS seq, t.id, t.alias, t.SOURCE, t.description, COALESCE (cm.cwe_jsonb_array,'{
       COALESCE( (
        '{"cvssV' || COALESCE(replace(t.cvss_version_v3,'.','_'),'3.0') || '":{"version":"' || COALESCE(t.cvss_
         "baseSeverity":"", "vectorString":"", "confidentialityImpact":"", "integrityImpact":"", "availabilityI
         "cvssV2_0":{"version":"' || t.cvss_version_v2 ||'", "baseScore":"", "attackVector":"' || COALESCE(t.cv
         "baseSeverity":"", "vectorString":"", "confidentialityImpact":"", "integrityImpact":"", "availabilityI
         }'
       )::jsonb , '{}') AS severity,
       t.time_info,
       t.vul_status,
       t.identifier
FROM wt_gitlab_msg t
LEFT JOIN wt_cwe_msg cm
       ON t.id = cm.uuid;


```

```
DELETE FROM test.dws_graph_node_vul WHERE vul_source = 'GITLAB';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_node_vul
SELECT nextval('cve_graph_seq') AS seq, tmp.*
FROM
(
SELECT  DISTINCT  id ,  alias , "source", description ,weaknesses, severity, time_info,  vul_status, 'GITLAB' A
)tmp ;

SELECT *FROM test.t_tmp_node_vul_gitlab LIMIT 10


--affected_component
DROP TABLE IF EXISTS test.t_tmp_graph_node_component_gitlab;
CREATE TABLE test.t_tmp_graph_node_component_gitlab AS
      WITH wt_lib AS
      (
          SELECT t.file_msg ->> 'uuid' AS id, length(t.file_msg ->> 'package_slug') - length(REPLACE(t.file_msg
                 t.file_msg ->> 'package_slug' AS package_slug,
                 t.file_msg ->> 'urls' AS urls,
--               t.file_msg ->> 'links' AS links
                 jsonb_build_object('version_range', t.file_msg ->> 'affected_range', 'version_list', t.file_ms
                 jsonb_build_object('version_range', t.file_msg ->> 'not_impacted', 'version_list', null) AS un
                 t.file_msg ->> 'fixed_versions' AS fixed_versions
          FROM test.t_tmp_gitlab_craw t
      )
      SELECT *FROM
      (
          SELECT replace(tmp.package_slug, tmp.ecosystem_tmp||'/'|| tmp.platform || CASE WHEN tmp.platform <> '
                 tmp.*, COALESCE(em.target_name, tmp.ecosystem_tmp) AS ecosystem, '-' AS component

          FROM
          (
              SELECT
                     CASE WHEN split_count = 2  THEN split_part(package_slug,'/',2)
                          WHEN split_count > 2  THEN split_part(package_slug,'/',3) END AS vendor,
                     split_part(package_slug,'/',1) AS ecosystem_tmp,
                     COALESCE( CASE WHEN split_count >= 3 THEN split_part(package_slug,'/',2) END , '') AS plat
              FROM wt_lib wl
          )tmp
         LEFT JOIN  test.dim_vul_ecosystem_map em
                ON em.vul_source = 'GITLAB'
                AND em.source_name = tmp.ecosystem_tmp
       )tmp2
          WHERE tmp2.package IS NOT NULL ;



PACKAGIST
MAVEN
SWIFT
PYPI
NPM
GO
NUGET

SELECT *
FROM test.t_tmp_graph_node_component_gitlab WHERE ecosystem = 'NUGET' LIMIT 100
```

```
108
109
110
111 CREATE TABLE test.dim_vul_ecosystem_map(vul_source varchar, source_name varchar, target_name varchar)
112
113 SELECT *FROM test.dim_vul_ecosystem_map
114
115 --SELECT *FROM  test.dws_graph_relationships_affected_components WHERE vul_source = 'OSV' AND ecosystem = 'NUGE
116
117 DELETE FROM test.dws_graph_node_affected_component WHERE vul_source = 'GITLAB';
118 ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
119 INSERT INTO test.dws_graph_node_affected_component
120   SELECT nextval('cve_graph_seq') AS seq, tmp.*
121   FROM (
122     SELECT   DISTINCT component, vendor, package, ecosystem, 'GITLAB' AS vul_source   FROM   test.t_tmp_graph_n
123     WHERE package IS NOT NULL
124   )tmp
125
126 --affected component
127   --seq int , vul_id , component_name , vendor , package_name , ecosystem , repo_url ,
128   --platform , collectionUrl , defaultStatus , affected_versions ,  unaffected_versions , vul_source
129 DELETE FROM test.dws_graph_relationships_affected_components WHERE vul_source = 'GITLAB';
130 ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
131 INSERT INTO test.dws_graph_relationships_affected_components
132   SELECT nextval('cve_graph_seq') AS seq, tmp.*
133   FROM (
134     SELECT   DISTINCT id, component, vendor,  package, ecosystem, '' repo_url, '' AS platform,
135              '' AS collectionurl, '' AS defaultstatus, affected_versions, unaffected_versions, 'GITLAB' AS vul_
136   )tmp;
137
138
139
140 SELECT *FROM test.t_tmp_graph_node_component_gitlab LIMIT 10
141
142
143 --cwe
144 CREATE TABLE test.t_tmp_graph_node_cwe_gitlab AS
145       SELECT cwe_ids ->> 0 AS cwe_id,  gc.file_msg ->> 'uuid' AS uuid
146          FROM test.t_tmp_gitlab_craw gc,
147          jsonb_array_elements(gc.file_msg -> 'cwe_ids') cwe_ids
148
149
150 --cwe node
151 --seq , id , vul_source
152 DELETE FROM test.dws_graph_node_cwe WHERE vul_source = 'GITLAB';
153 ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
154 INSERT INTO test.dws_graph_node_cwe
155   SELECT nextval('cve_graph_seq') AS seq, tmp.*
156   FROM (
157     SELECT   DISTINCT cwe_id, 'GITLAB'   FROM   test.t_tmp_graph_node_cwe_gitlab
158   )tmp;
159
160
161
162 --relationships cwe
163 -- seq int , vul_id varchar, cwe_id varchar, cwe_type varchar, cwe_desc varchar, vul_source varchar
164 DELETE FROM test.dws_graph_relationships_cwe WHERE vul_source = 'GITLAB';
165 ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
```

```
INSERT INTO test.dws_graph_relationships_cwe
  SELECT nextval('cve_graph_seq') AS seq, tmp.*
  FROM (
    SELECT   DISTINCT uuid AS id, cwe_id , '' AS cwe_type, '' AS cwe_desc , 'GITLAB' AS vul_source  FROM   test
  )tmp;

SELECT *FROM test.t_tmp_graph_node_cwe_gitlab LIMIT 10

--ref
DROP TABLE test.t_tmp_graph_node_refs_gitlab;
CREATE TABLE test.t_tmp_graph_node_refs_gitlab AS
    SELECT urls ->> 0 AS url,  gc.file_msg ->> 'uuid' AS uuid
         FROM test.t_tmp_gitlab_craw gc,
         jsonb_array_elements(gc.file_msg -> 'urls') urls

--node seq int, url varchar, vul_source varchar
DELETE FROM test.dws_graph_node_refs WHERE vul_source = 'GITLAB';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_node_refs
  SELECT nextval('cve_graph_seq') AS seq, tmp.*
  FROM (
    SELECT   DISTINCT url, 'GITLAB' AS source  FROM   test.t_tmp_graph_node_refs_gitlab
  )tmp;

 --relationship seq int , vul_id varchar, url varchar, tags varchar, description varchar, vul_source varchar
DELETE FROM test.dws_graph_relationships_refs WHERE vul_source = 'GITLAB';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_relationships_refs
  SELECT nextval('cve_graph_seq') AS seq, tmp.*
  FROM (
    SELECT   DISTINCT uuid AS id, url , '' AS tags, '' AS ref_desc , 'GITLAB' AS vul_source  FROM   test.t_tmp_
  )tmp;


```