

CHALLENGE NAME: [SMOKE OUT THE RAT]

DEV: [SAKSHAM SAIPATWAR]

CATEGORY: [DIGITAL FORENSICS]

LEVEL: [EASY]



















Description: There was a major heist at the local bank. Initial findings suggest that an intruder from within the bank, specifically someone from the bank's database maintenance team, aided in the robbery. This traitor granted access to an outsider, who orchestrated the generation of fake transactions and the depletion of our valuable customers' accounts. We have the phone number, '789-012-3456', from which the login was detected, which manipulated the bank's employee data. Additionally, it's noteworthy that this intruder attempted to add gibberish to the binlog and ultimately dropped the entire database at the end of the heist.

Your task is to identify the first name of the traitor, the last name of the outsider, and the time at which the outsider was added to the database.

## Flag format:

VishwaCTF{TraitorFirstName\_OutsiderLastName\_HH:MM:SS}







## **Step 1:** Find the traitor using the phone number given . You get the first name as 'Matthew'.

```
Edit
                      View
       email VARCHAR(100),
phone_number VARCHAR(15),
       pnone_number VARCHAR(15)
address VARCHAR(255),
city VARCHAR(100),
state VARCHAR(100),
postal_code VARCHAR(20),
branch_id INT,

FOREIGN KEY (branch_id) REFERENCES branches(branch_id)

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BY B bank CREATE TABLE maintainers (

maintainer_id INT AUTO_INCREMENT PRIMARY KEY,

first_name VARCHAR(50),

last_name VARCHAR(50),

13 VARCHAR(100).
       last_name VARCHAR(50),
email VARCHAR(100),
phone_number VARCHAR(15),
department VARCHAR(100),
role VARCHAR(50),
       in_time TIME,
out_time TIME
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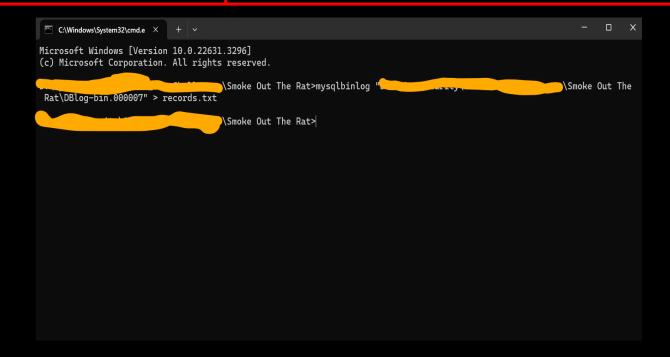
BlaneBSmithB jane.smithBexample.com
Michael JohnsonB michael.johnson@example.com
BEmilyBWilliamsD emily.williams@example.com
BDanielBBrownB daniel.brown@example.com
123-456-7890½ Database Administrator∰DBA€ €
234-567-8901½ Database Administrator∰DBA€ €@
345-678-9012½ Database Administrator½DBA€@ € Š
456-789-0123½ Database Administrator½DBA€ €€
567-890-1234□ Database Administrator□DBA€€ € 678-901-2345□ Database Administrator□DBA€ €À
                                                                                         <mark>789-012-3456</mark>0 Database Administrator®DBA€À €à
890-123-45670 Database Administrator®DBA€à №
                                                                                                   Jessica@Davis@ jessica.davis@example.com
```

**Note:** Analyse the database log carefully, look for things which describe the database like tables, columns and other to get an basic Idea about what the database is all about, it will benefit you getting the flag.

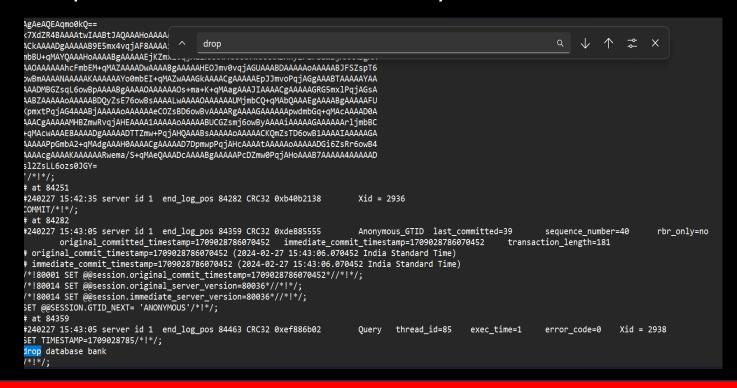
**Step 2:** Now as you are asked about the timestamp, you need to convert the binary into readable format. The which helps you achieving this 'mysqlbinlog' utility.



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**Step 3:** Now open the decrypted text file, and get the remaining part of the flag. The description hints that, outsider added in the database created fake transactions and ultimately dropped the entire database. Find the 'drop' statement and search nearby...





**Step 4:** Scrolling a bit you can see an update made in the employees table, note the timestamp, and converting the binlog using Base64 helps you get the name of the outsider added.

FLAG: VishwaCTF{Matthew\_Darwin\_15:31:29}