#### **Sherlock - Jingle Bell**



#### **Sherlock Scenario:**

Torrin is suspected to be an insider threat in Forela. He is believed to have leaked some data and removed certain applications from their workstation. They managed to bypass some controls and installed unauthorised software. Despite the forensic team's efforts, no evidence of data leakage was found. As a senior incident responder, you have been tasked with investigating the incident to determine the conversation between the two parties involved.

#### **FILES IN ZIP:**

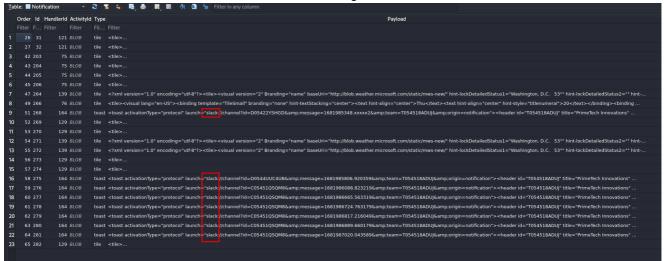
```
(ajsankari@ ajsankari)-[~/.../Local/Microsoft/Windows/Notifications]
$ ls
wpndatabase.db wpndatabase.db-shm wpndatabase.db-wal wpnidm
```

- wpndatabase.db: This is the main SQLite database file that stores information about notifications in Windows. It holds data related to notifications that are shown in the Action Center.
- wpndatabase.db-shm: This is a shared memory file used by SQLite databases to handle multi-process access to the main database file (wpndatabase.db). It helps in improving the performance of the database.
- **wpndatabase.db-wal**: This is a write-ahead log file used by SQLite for transactional purposes. It temporarily stores changes to the database before they are committed to the main wpndatabase.db file, ensuring data integrity.

### Q1 Which software/application did Torrin use to leak Forela's secrets?

Looking at the database in **SQLITEBROWSER** under the table **NOTIFCATION** I see that Torrin used the application **SLACK** to leak the secrets.

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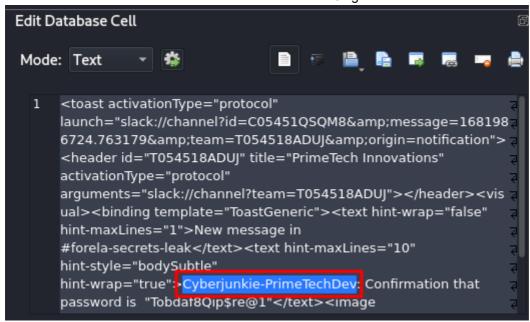
### Q2 What's the name of the rival company to which Torrin leaked the data?

In the same table I can see the name of the company PrimeTech Innovations



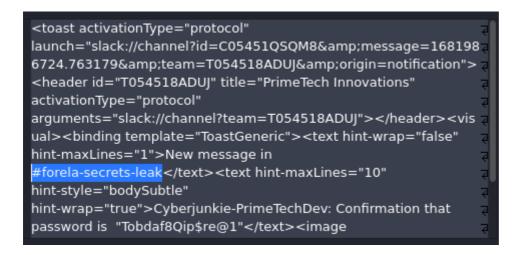
# Q3 What is the username of the person from the competitor organization whom Torrin shared information with?

Looking at the DB Cell I find the username Cyberjunkie-PrimeTechDev



### Q4 What's the channel name in which they conversed with each other?

In the same cell I can see the channel name is forela-secrets-leak



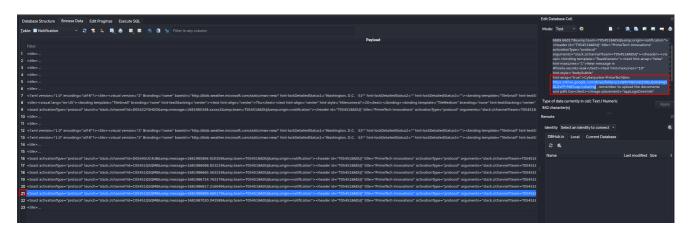
### Q5 What was the password for the archive server?

The user's password is Tobdaf8Qip\$re@1 as seen below:

```
<toast activationType="protocol"
launch="slack://channel?id=C05451QSQM8&amp;message=16819
6724.763179&amp;team=T054518ADUJ&amp;origin=notification":
<header id="T054518ADUJ" title="PrimeTech Innovations"
activationType="protocol"
arguments="slack://channel?team=T054518ADUJ"></header><vi:
ual><binding template="ToastGeneric"><text hint-wrap="false"
hint-maxLines="1">New message in
#forela-secrets-leak</text><text hint-maxLines="10"
hint-style="bodySubtle"
hint-wrap="true">Cyberjunkie-PrimeTechDev: Confirmation that
password is "Tobdaf8Qip$re@1"</text><image</pre>
```

## Q6 What was the URL provided to Torrin to upload stolen data to?

In the 21st cell I can see the Cyberjunkie-PrimeTechDev says to upload to documents to the following link - <a href="https://drive.google.com/drive/folders/1vW97VBmxDZUIEuEUG64g5DLZvFP-Pdll?usp=sharing">https://drive.google.com/drive/folders/1vW97VBmxDZUIEuEUG64g5DLZvFP-Pdll?usp=sharing</a>

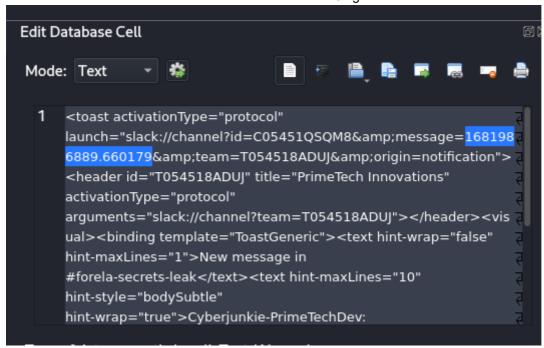


#### Q7 When was the above link shared with Torrin?

In the following cell we can see that the 'message' parameter includes a value 1681986889.660179.

This value is in Unix epoch time format, which represents the number of seconds since January 1, 1970 (UTC).

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To convert 1681986889.660179 to a human-readable date and time I can use the **date** command

Using date -d 1681986889 gives me the following results:

```
(ajsankari@ajsankari)-[~/.../Local/Microsoft/Windows/Notifications]
$ date -d @1681986889

Thu Apr 20 20:34:49 AEST 2023
```

Since I know the box is in UTC time format, I can run the same command again but use **-u** to get the date in UTC.

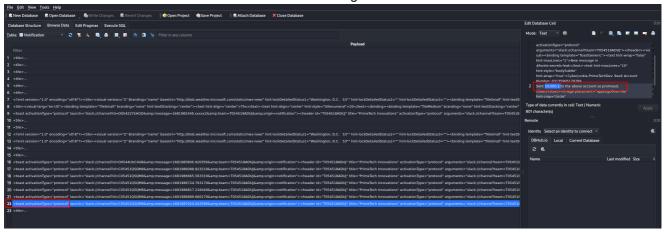
```
(ajsankari⊗ ajsankari)-[~/.../Local/Microsoft/Windows/Notifications]
$\frac{1}{2}$ date -d \( \partial 0.1681986889.660179 \) -u

Thu Apr 20 10:34:49 UTC 2023
```

2023-04-20 10:34:49

### Q8 For how much money did Torrin leak Forela's secrets?

In the DB Cell 22 I can see that Torrin leaked the secrets for 10,000 £



#### **SUMMARY**

Here are the key findings from the HTB Sherlock writeup:

- Software Used for Data Leak: Torrin used SLACK to leak Forela's secrets.
- Rival Company: The data was leaked to PrimeTech Innovations.
- Competitor's Username: The username of the person at PrimeTech Innovations was Cyberjunkie-PrimeTechDev.
- Conversation Channel: The conversation took place in the forela-secrets-leak channel.
- Password for Archive Server: The password for the archive server was Tobdaf8Qip\$re@1.
- Upload URL: Torrin was provided with the URL
   <a href="https://drive.google.com/drive/folders/1vW97VBmxDZUIEuEUG64g5DLZvFP-Pdll?usp=sharing">https://drive.google.com/drive/folders/1vW97VBmxDZUIEuEUG64g5DLZvFP-Pdll?usp=sharing</a> to upload the stolen data.
- Timestamp of URL Sharing: The URL was shared with Torrin on 2023-04-20 10:34:49
   UTC.
- Compensation: Torrin leaked the secrets for £10,000.