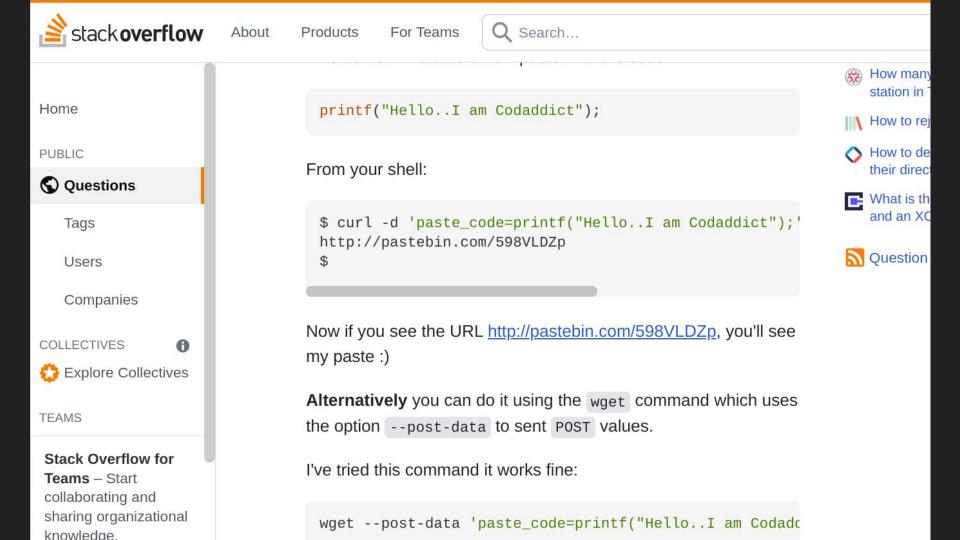
How to hack a \$10M company?

The Story of an OpSec mistake

How it started?





How to buy fake University of Westminster diploma?

f SHARE

My Pastes

TWEET

Untitled 19 days ago | 89.13 KB

C 0.89 KB | Cybersecurity | 1 0 0

How to buy fake University of Westminster diploma? Order fake University of Westminster degree online, Fake University of Westminster certificate for sale, Make a University of Westminster Academic transcript online, Buy fake University of Westminster degree certificate in London. buy fake diploma, buy fake degree.

Email: diplomacentersale@gmail.com

WhatsApp: +86 19911539281

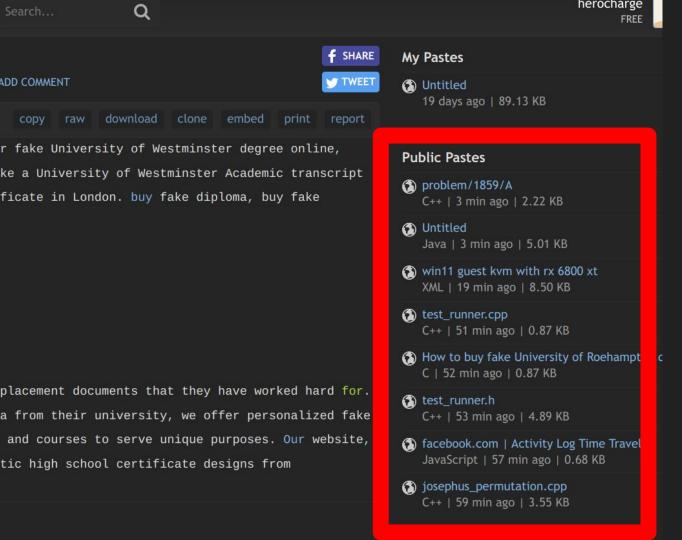
WeChat: +86 14779983878

https://www.diploma888.com

It is a privilege to assist individuals in obtaining replacement documents that they have worked hard for. In cases where someone did not receive a genuine diploma from their university, we offer personalized fake degrees, diplomas, and transcripts with specific majors and courses to serve unique purposes. Our website, www.diploma888.com, provides a wide selection of authentic high school certificate designs from universities, colleges, and high schools worldwide.

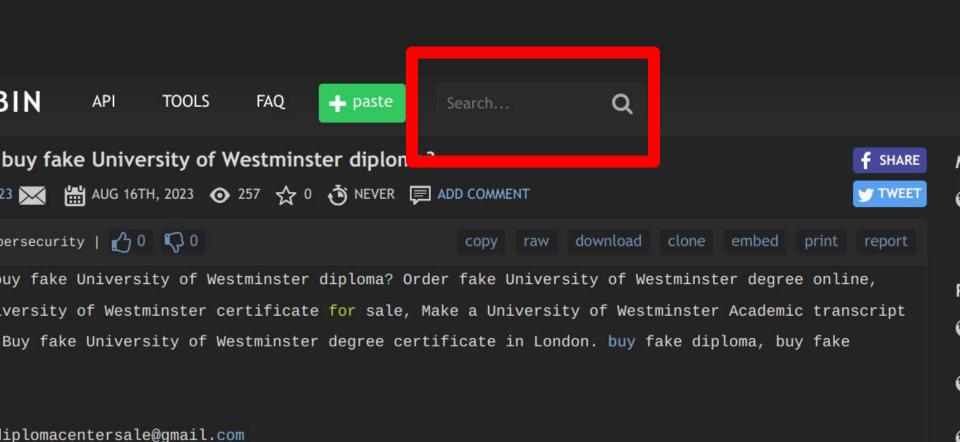
Public Pastes

- problem/1859/A C++ | 3 min ago | 2.22 KB
- (1) Untitled Java | 3 min ago | 5.01 KB
- win11 guest kvm with rx 6800 xt XML | 19 min ago | 8.50 KB
- test_runner.cpp C++ | 51 min ago | 0.87 KB
- 1 How to buy fake University of Roehampton C | 52 min ago | 0.87 KB
- test runner.h C++ | 53 min ago | 4.89 KB
- facebook.com | Activity Log Time Travel JavaScript | 57 min ago | 0.68 KB
- (1) josephus permutation.cpp C++ | 59 min ago | 3.55 KB



pastebin social media?

whatever lets move on



Wait!?
How many people share code on pastebin?

19 MILLION MONTHLY USERS WITH 95 MILLION TOTAL ACTIVE PASTES !!!!

That's a lot of room to mess things up

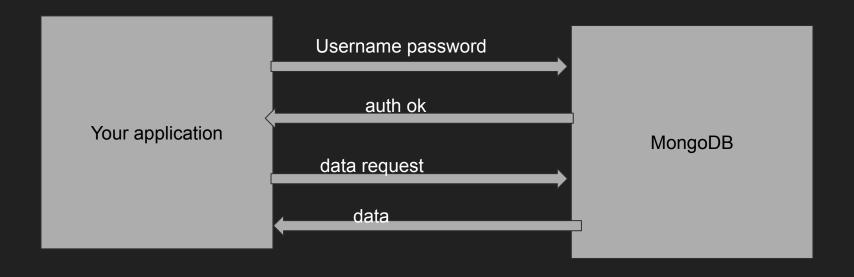
My Thoughts

- Mistakes happen
- People accidentally push confidential info to git all the time
- Surely some one accidentally made a paste with confidential info

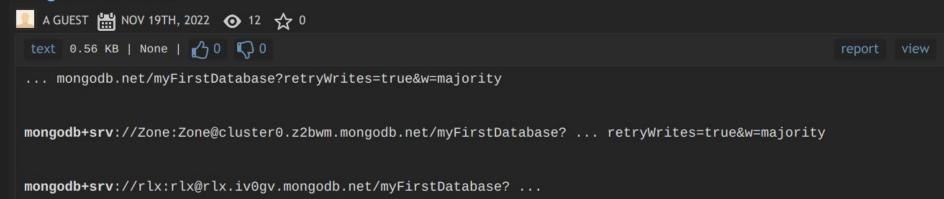
What do I search for tho?

```
Blame
Code
          active_orders = {
  15
              # }
  16
  17
          shop_cookies = {}
  18
          user_cookies = {}
  19
   20
          app = Flask(__name__)
   21
          client = MongoClient("mongodb+srv://vnnm:
                                                                 @main.gtvbo.mongodb.net/
  22
   23
   24
          db = client.myFirstDatabase
   25
          def get_price(item, shop):
   26
              prices = db[shop+"_menu"]
   27
              item_price = prices.find_one({'item': item})
   28
```

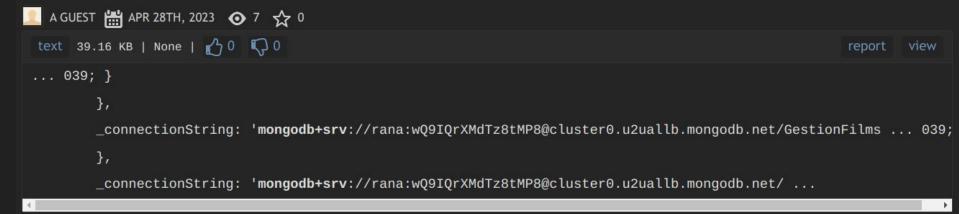
Mongo client to server communication



MongoDB Free Users



Untitled



```
ConnectionString = "mongodb+srv://doc360-prod-frontend:
                                                                              <u>@document360-prod-eu.neleh.mongodb.net/?ret</u>
      DatabaseName = "document360-prod"
//var mongoContext = new MongoDbContext(appSettingProdEU);
//AppSettings appSettingProdUS = new AppSettings
      ConnectionString = "mongodb+srv://doc360-prod-frontend:
                                                                              @document360-prod-us.neleh.mongodb.net/docu
//var mongoContext = new MongoDbContext(appSettingProdUS);
      ConnectionString = "mongodb+srv://airtableweb:
                                                                      <u>@document360-prod-ph-air.hk8ey.mongodb.net/?retryWr</u>
      DatabaseName = "document360-prod-ph-airtable"
//var mongoContext = new MongoDbContext(appSettingProdPH);
AppSettings appSettingsDev = new AppSettings
    ConnectionString = "mongodb+srv://doc360-admin-readwrite:
                                                                               @document360-devbox.9sl3o.mongodb.net/docu
```

//AppSettings appSettingProdEU = new AppSettings

DatabaseName = "document360-ga"

What did I find?

- All customer's data including payment information
- All emails sent to customers
- Unreleased web pages, etc.

What did I find?

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- All emails sent to customers
- Unreleased web pages, etc.
- API KEYS!!!!!!

When we are building an application, we dont want to build everything from scratch.

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Things like payment systems and email servers are tedious to implement.

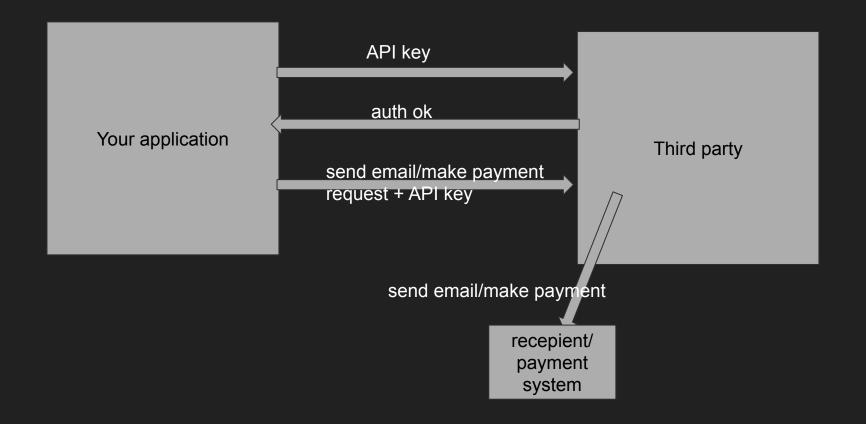
When we are building an application, we dont want to build everything from scratch.

Things like payment systems and email servers are tedious to implement.

So we use third party services to do these for us. (eg: stripe for payment, sendgrid for emails)

API keys are basically passwords to tell the third parties that it's you who is requesting a particular operation.

Application to Third Party comms



The database had API keys for:

- Stripe payment services
- SendGrid mailing services
- Microsoft translation
- Some analytics tools
- etc

DEMO TIMEE!!!

Even Worse

I had edit access

Security

Our customers across the globe trust us with their data security. We back ourselves up with robust data security and privacy practices that form an integral part of our product engineering and service delivery principles.



Ticket Received - [#177914] mongodb config on pastebin



to me -



Document360 Support (.com) support@document360.com via freshdesk.co... Mon, Jun 5, 5:58 PM

Dear Bhargav K,

We would like to acknowledge that we have received your request and a ticket has been created with Tick

You can access the ticket here https://support.document360.com/support/tickets/177914

A support representative will be reviewing your request and will send you a personal response.(usually wit hours).

Thank you for your patience.

Sincerely,



Bhargav K <techwithbhargav@gmail.com> to vishnu.balachandran ▼

Неу,

I found this public paste in pastebin: https://pastebin.com/HC2xZkSV

It contains mongodb's username passwords like:

There seem to be API keys for other services in the db as well; I recommend immediately changing the passwords before anyon

There seem to be 74. They of other services in the 45 as well, Tresemment immediately changing the passwords before drive

Thank you.

I mailed bugs@document360.com 2 days ago but got no response. I found your email in the db itself, so I decided to email your

?reti

gift card



Hope you enjoy this Amazon Pay Gift Card!

₹ 10000.00

Amazon Pay Gift Card

amazon pay gift card

Company make product

Company make product

Product might have vulnerabilities

Company make product

Product might have vulnerabilities

Anyone might be able to find these vulnerabilities

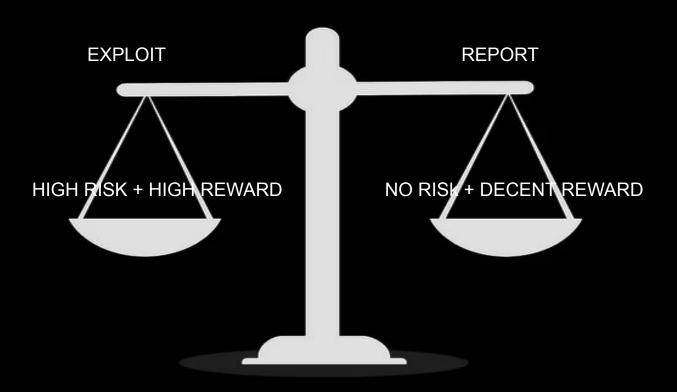
Company make product

Product might have vulnerabilities

Anyone might be able to find these vulnerabilities

Incentivize hackers to report the bugs rather than exploiting them.

HACKER'S OPTIONS





lackerone

What went wrong?

Two scenarios:

What went wrong?

Two scenarios:

- It was an accident

What went wrong?

Two scenarios:

- It was an accident
- Malicious employee

How to stop a leak like this in first place?

- Its not possible to completely prevent something like this.
- But companies can take measures to mitigate the damage.

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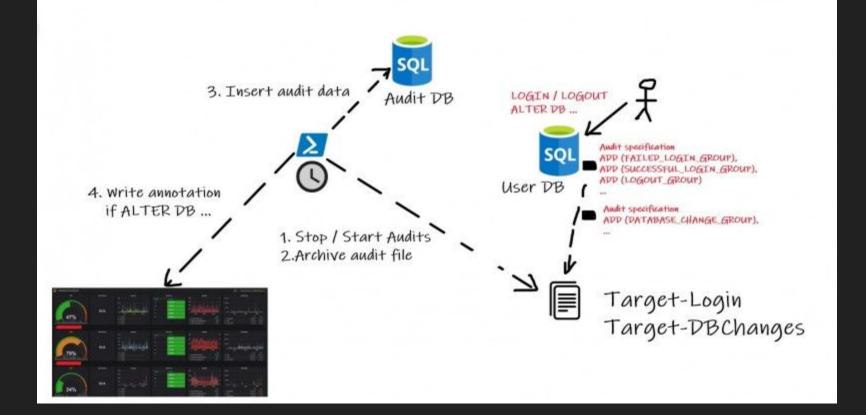
How to stop a leak like this in first place?

- Its not possible to completely prevent something like this.
- But companies can take measures to mitigate the damage.
- Not every employee needs to have access to every single part of the product.
- Use secure methods of communication (like end-to-end encrypted platforms eg: signal).
- Have internal tools that are airgapped from the public.

What can we do to make the life of hacker hard?

(just in case, the password gets leaked)

- Two factor authentication
- Information auditing systems
- firewalls



Principle of Least Privilege

Do you really need to give every user both read and write permisssions?

Principle of Least Privilege

Give processes / applications / users just enough permissions to get their work done, nothing more.

When POLP isnt followed

Edward Snowden and NSA Leaks:

In the case of Edward Snowden, a former NSA contractor, having overly broad access privileges allowed him to steal and leak classified government documents. Implementing POLP by limiting access to sensitive data to only those who genuinely needed it could have reduced the risk of such a massive data breach.



When POLP isnt followed

WannaCry Ransomware Attack (2017):

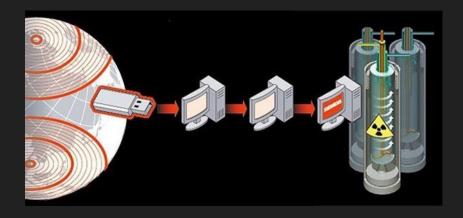
WannaCry spread across networks by exploiting a Windows vulnerability. If organizations had employed POLP by restricting unnecessary network access and ensuring timely patching, the ransomware's propagation could have been curtailed.



When POLP isnt followed

Stuxnet Worm (2010):

Stuxnet targeted industrial control systems and spread through USB drives. If only essential personnel had been allowed to use USB drives on critical systems, the impact of the worm could have been limited.



Thank You

https://linktr.ee/0x1337_iiith

