

Daniel Gilbert
Software Engineer

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Experience

Software Engineer, CSP Networks, 10/01/2021 - 08/28/2024, Irvine, CA

Report Suspicious Azure Logins

- Developed PowerShell agent and PHP REST API to get public IP addresses of authorized users.
- Configured secure application access to the Azure O365 Management API using IAM.
- Configured multi-tenant application in Azure and granted tenant access via PowerShell script.
- Created a cron job, Bash script, and PHP code to get REST API data from Azure.
- Wrote PHP code to store API data in MariaDB (MySQL) database and flag any suspicious logins.
- Developed a frontend UI using HTML and CSS to report on the suspicious logins.

Report Exchange Online Forwarded Mailboxes

- Configured secure application access to the Azure Exchange Online API using IAM.
- Created a cron job, Bash script, and PHP code to generate PowerShell scripts within Bash scripts.
- The scripts would run to get the Exchange Online data and store it in MariaDB, then cleanup.
- Wrote PHP backend code using CodeIgniter MVC framework to validate and process the data.
- Developed a frontend UI using HTML and CSS to report on the forwarded mailboxes.

Report Microsoft Billing Information

- Configured secure API access to the Partner Center via the Secure Application Model Framework.
- Developed and integrated PHP code to cache API data containing Microsoft billing information.
- Created code that transformed API JSON into PHP data structures for saving to the database.
- Provided efficient insights into key billing information that was not possible using the web interface.
- Enabled the business to save thousands of dollars by reporting on unused licenses and errors.

Information Technology Help Desk, CSP Networks, 10/07/2019 - 09/30/2021, Irvine, CA

Technical Support

- Performed software, hardware, and network troubleshooting for both IT and cybersecurity issues.

Projects

The Watcher: Intelligence Collection Honeypot

- Developed a honeypot written in PHP that collects IP address and user agent info on visitors.
- Coded tools that use the Shodan REST API to perform open-source intelligence on the visitors.
- Information collected includes location data, host names, operating systems, and open ports.

Penetration Testing Tools API

- Developed a REST API written in Go that provides payloads used in penetration testing.
- Wrote code to validate API inputs using regular expressions and error handling.
- Used functions to handle serialization (marshalling/encoding) for JSON and HTTP responses.

See my GitHub for the code and more projects: <https://github.com/danielstephengilbert>

Education

AS, Math & Science, 3.63 GPA, Riverside City College, Student of Distinction Award in Mathematics
CompTIA Security+ (07/04/2021 - 07/04/2024)