

Monitoring your Devices... But Make It *Go*

osquery + *Go* for fun & compliance

```
> whoami
```

```
name      : Mohammed Nafees
```

```
interests : cybersecurity, distributed  
           systems, low-level computing, cloud  
           and backend infra
```

```
github    : mnafees
```

```
X         : NafeDotEs
```



What's osquery?

- Developed at Facebook
- Turns your system into a relational database
- You can query your device like

```
SELECT * FROM processes WHERE name = 'bash';
```

- Cross -platform: works on macOS, Linux, and Windows
- Great for monitoring, threat detection, inventory, etc.






Why osquery is cool


- Open source & powerful ✨
 - <https://www.github.com/osquery/osquery>
 - 8 years, 400 contributors, and 6,000 commits (and counting!)
- Live system insights with SQL syntax
- Structured, lightweight, and fast
- Tables for: processes, users, network, USB devices, security configs, and even sneaky kernel extensions
- Plug-in friendly: you can build your own tables and extensions

Meet osquery-go: Your Go-powered Sidekick

So you like osquery. Now imagine if you could teach it new tricks.

osquery-go is the Go SDK to create:

-  Custom tables
-  New data sources
-  Realtime monitoring magic

Think: Go + SQL + system internals = 

Anatomy of a Custom Table in Go

```
plugin.TablePlugin(  
    "mood_table",  
    []table.ColumnDefinition{  
        table.TextColumn("mood"),  
        table.TextColumn("reason"),  
    },  
    func(ctx context.Context, queryContext table.QueryContext) ([]map[string]string, error) {  
        return []map[string]string{  
            {"mood": "happy", "reason": "running Go and osquery"},  
        }, nil  
    },  
)
```

 In plain English:

- Give your table a name
- Define the columns
- Return rows (as Go maps!)

Boom. You've got a working table. 

 Demo Time!

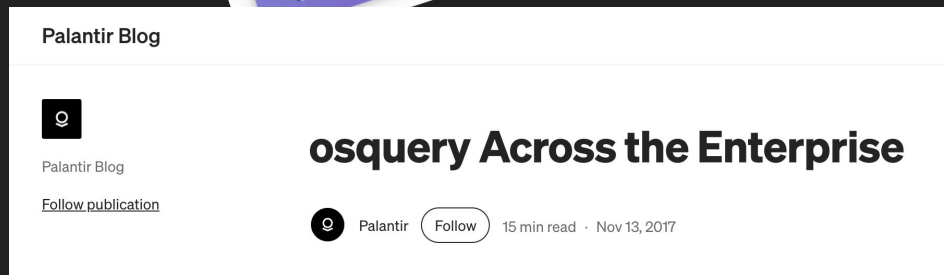
Fun with Profit – Real Use Cases

- ✓ Security Teams: Custom audit tables
- ✓ SREs: Process health, disk alerts
- ✓ Hackers: Make your own spyware (for yourself... ethically!)
- ✓ Nerds: Monitor if Cursor is open too long 😄



Where in the World is osquery with Go extensions?

- Deployed on millions of devices globally
- Used across macOS, Linux, Windows
- Popular in:
 - Endpoint Detection & Response (EDR)
 - IT asset inventory
 - Compliance frameworks (SOC2, HIPAA, etc.)
 - Incident response & forensics





Why Go Is Perfect for osquery Extensions

- Static binaries
- Great stdlib for system access
- Fast startup and small footprint
- Plugin/RPC support is native
- Simple to test and reuse

osquery gives you the sockets. Go gives you the smarts. Together, you get a cross-platform monitoring agent you actually want to maintain.

Closing

“osquery-go lets you turn security into software engineering, not just ticket-tending.”

- Want more insights? Write a table
- Want real-time remediation? Wire up a scheduler
- Want to sleep well at night? Monitor everything

“Because in 2025, your fleet is your perimeter — and osquery-go is your best friend wearing a Go hoodie.”

Thank you!

Questions?