

Go in a Microsoft Shop

insight and opinion

Go London User Group
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BACKGROUND

- Previously founded Countersoft
- Historically .NET ISV because we sold to enterprises, on-premise
- Software deployed to NASA, Dell, NHS, US.gov, banks, healthcare
- Background in Fortran, VB, C++, Java and .NET
- Latest start-up Documize is written Go, SaaS + on-premise
- Always seeking an edge to help us improve



Microsoft



Microsoft





Why not stick with .NET?

KEY ISSUES

- World moving towards cloud apps, mobile apps — cost
- But on-premise still remains — deployment
- .NET start-up community — who's else is here?
- Sometimes Windows can hurt a little...

Windows VM (source: Microsoft Azure, April 14)

| | | | | |
|-------------|---|--------|---------------------------|--------------------------|
| Medium (A2) | 2 | 3.5 GB | \$0.148 (~\$111/month) | \$0.18 (~\$134/month) |
| Linux VM | | | | |
| Medium (A2) | 2 | 3.5 GB | \$0.088 (~\$66/month) | \$0.12 (~\$90/month) |

WHY GO?

- Supports Linux cloud, Windows on-premise
- +30% cheaper to run cloud stack
- Go more “safe” than Mono for cross-platform
- Better compile times for large codebases
- Better web app start-up times
- Better deployment experience
- Story for Corporate IT Police



IT POLICE FRIENDLY

- Deploy Go on standard, corporate IT server images
- Go web apps can run under Microsoft IIS
- IIS for SSL termination
- IIS Application Request Routing



MAINTENANCE COSTS

- Code is formatted the same way, so easy to read
- Code “does exactly what it says on the page”
- The language is small, so easy for new hires

3RD PARTY SAAS SERVICES

Why is .NET less supported?!

We support your stack

Languages

Databases

Queues

Browsers

Libraries

Deployment

Custom



CircleCI automatically infers how to run your Ruby, Node, Python and Java tests. You can customize any step, or set up your test steps manually for PHP or other languages.

[Notifications](#)
[Artifacts](#)
[Branches](#)
[Status Badges](#)

LANGUAGES

[C / C++](#)
[Dart](#)
[Go](#)
[Haskell \(New\)](#)
[Groovy \(New\)](#)
[Java](#)
[Node.js](#)
[PHP \(Beta\)](#)
[Python \(Beta\)](#)
[Ruby \(Beta\)](#)
[Scala \(New\)](#)

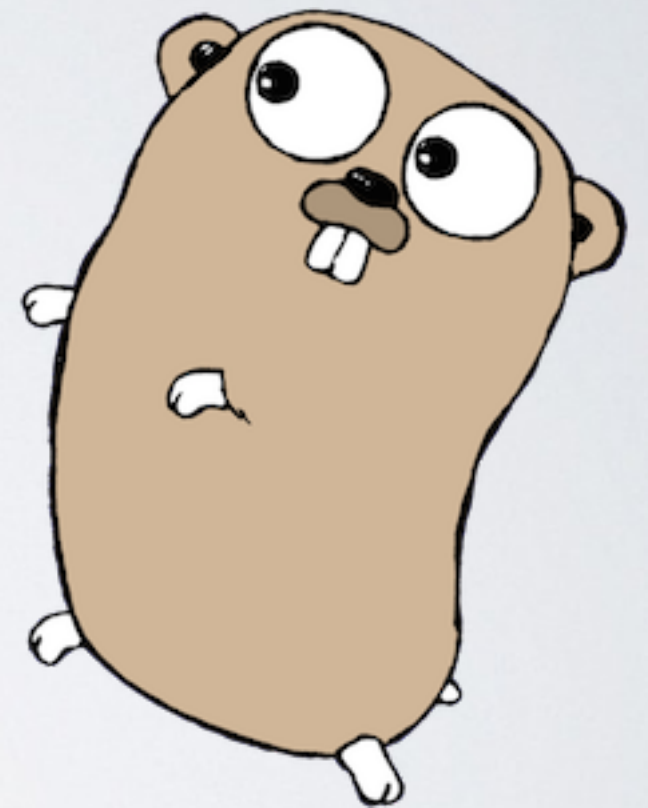
DEPLOYMENTS

[SSH](#)
[Heroku](#)
[Dotcloud](#)



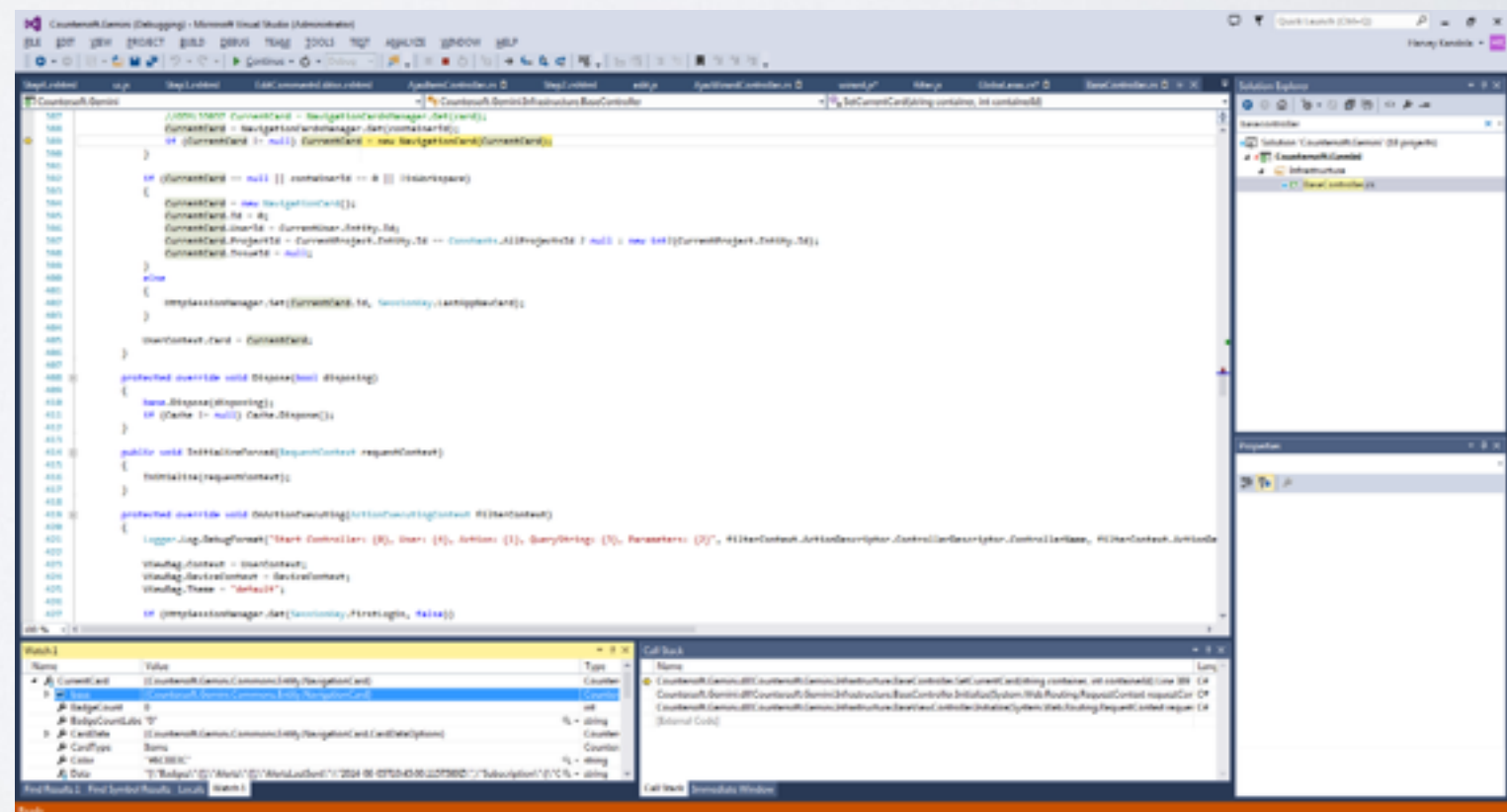
MAKING THE JUMP

- Visual Studio » **Sublime Text**
- Asp.net MVC » **Martini + AngularJS**
- Asp.net Web API » **Gorilla Mux**
- Testing » **Goconvey**
- Help Docs » **Dash (OSX)**



SOME INITIAL PAIN

- Miss JetBrains ReSharper refactoring
- 3rd party library dependency issue (vendor'ing)
- GOPATH approach
- Visual Studio debugger



THANKS