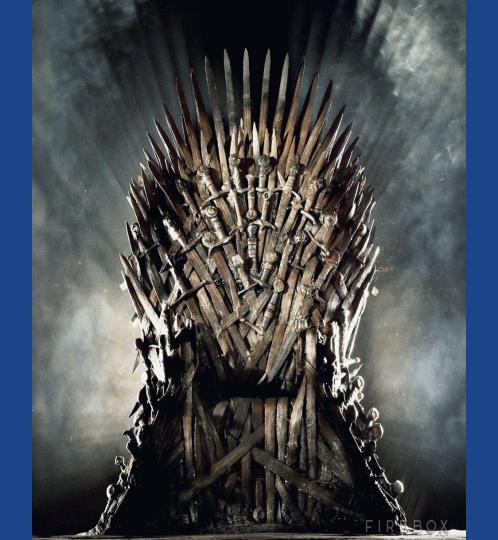
Containers Vs VMs? It's All About Microservices

Anne Currie

CTO Microscaling Systems

@microscaling / @anne_e_currie



Bare MetalStrength: Power

Stannis Baratheon

Weakness: Inflexibility, Spin-up Speed, Server Density (=Resource Utilization)

artwork: https://www.facebook.com/graphicck

@microscaling



Strength: Flexibility, Agnosticism, Security, Networking

Weakness: Slightly overweight, Microservices?

artwork: https://www.facebook.com/graphicck

@microscaling



Containers

Strength: Lightweight,

Fast

Daenerys Targaryen

Weakness:
Unseasoned,
Security, Networking

Container Instantiation Speeds!



Autoscaling->Microscaling



Microservices



Cattle not pets





Realtime

1 sec per slice

Microscaling-on-your-Box



Google, Netflix



- Lower cost
 - high server density
- Lower maintenance
 - self-healing
- More than the humanly achievable



Summary

- Containers already won @ Google & Netflix
- Lower maintenance & lower costs
- Ops requirements: Docker (or alternative), orchestrator, microscaling
- Architecture requirements: microservices, cattle not pets

Containers are Coming



Questions for me?

