





The Nano Driven Datacenter

Jeff Hicks

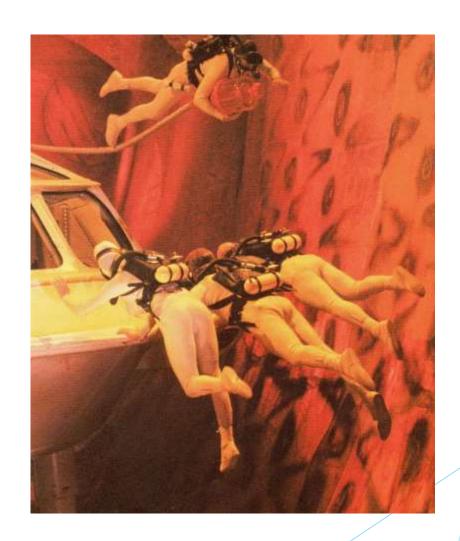
@JeffHicks

Download demos from:

https://github.com/jdhitsolutions/NanoDatacenter

The Future is Tiny

- GUI -> Core -> Nano
- Small foot print
- Potentially smaller resource requirements
- Potentially smaller attack surface
- Potentially few reboots and updates



Nano Essentials

- Built on .NET Core
- Run in a VM or physical iron
- No interactive console
- Use standard remote management tools and PowerShell
- Windows Server 2016

```
Nano Server Recovery Console
Computer Name: NANO-01
              globomantics\jeff
User Name:
              GLOBOMANTICS.local
Domain:
              Microsoft Windows Server 2016 Standard
OS:
              Thursday, October 20, 2016
Local date:
              7:49 PM
Local time:
> Networking
  Inbound Firewall Rules
 Outbound Firewall Rules
  WinRM
Up/Dn: Scroll | ESC: Log out | F5: Refresh | Ctl+F6: Restart
Ctl+F12: Shutdown | ENTER: Select
```

Nano Everywhere!

How far can Nano go in the datacenter?

How hard can it be?

Let's build a Nano-driven datacenter

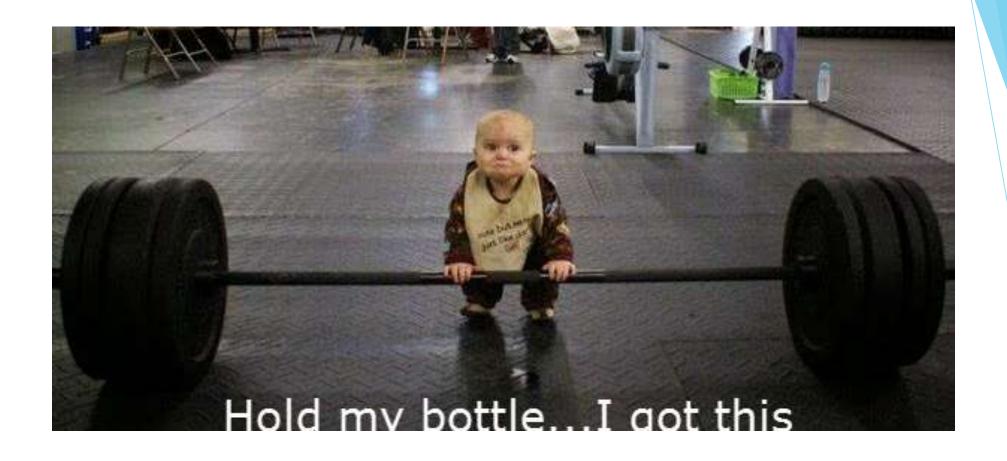
My PowerShell/Nano Toolbox



- Custom tooling built around the NanoServerImageGenerator module
- Using RTM media (September 2016)
- Microsoft Hyper-V (Server 2016)
- Desired State Configuration
- Domain environment

Caveats

- .NET Core is still evolving
- I didn't test full functionality for each server or feature
- I assume you have some familiarity with Nano Server



Let's Get Small

https://github.com/jdhitsolutions//NanoDatacenter

Discussion & Questions

What are your roadblocks to adoption?

What would make Nano "better"?

Take Aways

- Expect to build your own Nano Server tooling
- DSC Resources might need Nano Server versions
- We need a few more key Nano Server features
- Plan on a lot of trial and error testing



Thank You



http://blog.jdhitsolutions.com



jhicks@jdhitsolutions.com



@JeffHicks



http://plus.google.com/+JefferyHicks