



VMworld,
careerMotion and
Homelabs



Hello!

I am Gareth Edwards

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www.virtualisedfruit.co.uk

www.openhomelab.org

www.opentechcast.com

If you haven't
already got it




<https://t.co/CCLjv01rMf>



1.

NSX

1st we did hardware and what next

A large, abstract, circular splash of purple and red paint on a white background. The splash is centered and has a textured, splattered appearance. The colors transition from a deep purple in the center to a bright red at the edges. The text is overlaid on the purple part of the splash.

*P.Gelsinger - "It's the secret
sauce"*

IOT

- × Who has a Hive / Nest
- × Rapid adoption
- × How do you interact with these things



Big concept

Get as much data from the edge but it has to be pushed somewhere

Edge Computing

Micro

Small cluster or even a single unit with nodes in it

Nano

Maybe NUC's, hyper converged network and data

Jack of all trades....

Cloud

Have you adopted the cloud yet?
Its all about the multi cloud

Hypervisors

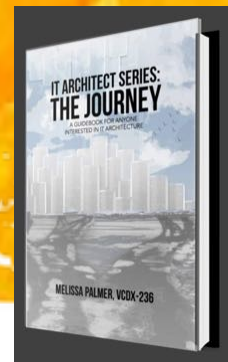
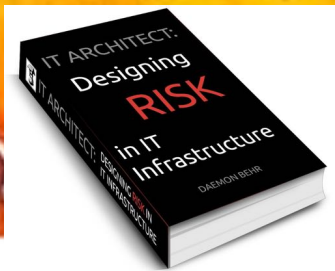
Is there just one?

Containers / Serverless

Isn't this just developers and magic/unicorns?

Keep Learning

Migration to Architect - VCDX, MVP, NPX?

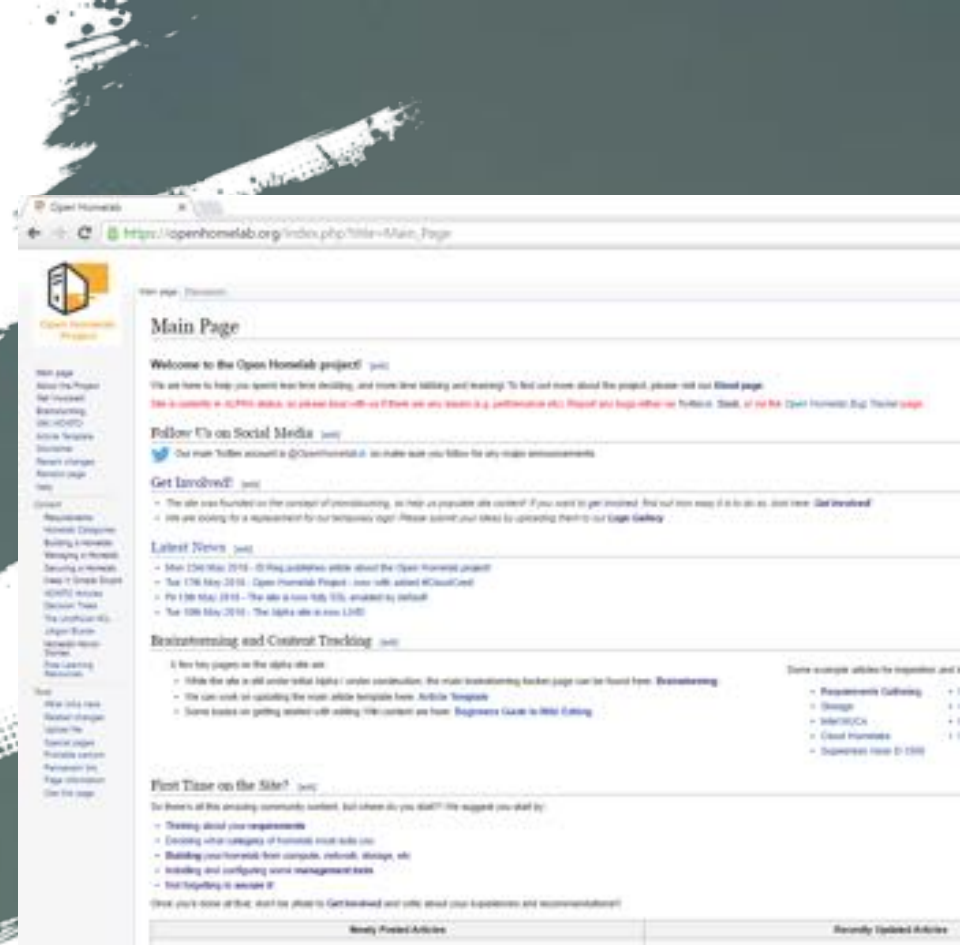




Networking....
Don't underestimate it

A wiki was born

Although the site was started from a VMware user group, we believe that a homelab is a homelab! As such, we are keen for people across the IT community to contribute with their knowledge and tips across operating systems, hypervisors, tools and applications.





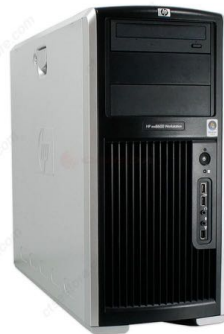
237,157

Whoa! That's a big number, aren't you proud?

Scale of labs



My Lab





The Challenge

“design elements that increase the likelihood a wife/partner will approve the purchase of expensive consumer electronics products”

Wikipedia

What's your lab used for

VMware & vSphere Admin
Want a better way to learn of tinker...

Microsoft & Other items
Hyper-V and Windows Stack,
Openstack, Citrix, Load Balancers

Let's review some concepts

The Enterprise Obsessive

Lab Runs 24/7
VPN
10Gb Everywhere
Budget... what budget

The Noise Obsessive

Silence is key
Budgets Vary
SSD is the best
1GB ok

The Lucky Employee

Employer sees the value
May have to squeeze it in
Might come with the role
but can be limited
Could have gone EOL

The Basement / Garage Owner

Minimal Power or Noise Restrictions
Budget widely varies
Racks are the best!

The Tinkerer

Jack of all trades
Varies month to month
Needs flexibility

The Junior Engineer/ Part Timer

Budget constrained
Maximum bang for buck
Probably only evenings
Physical location is key
Don't want to spend time managing it

A little about power..

Is it always cheaper to buy 2nd hand kit?

UPS?

Fire hazard?

Loft space?



Cooling and Noise

Better CPUs = more heat
Anyone have AirCon?
Space in a rack?





Do you
need it?

AzureStack needs a minimum
96GB RAM
I3 vs i5 vs i7
Homebuild / Whitebox / NUC

Networking

Is there a benefit in a homelab to running multiple NICs?

What about power and cooling? CCNA?

What are the use cases for running multiple 1Gbps links?

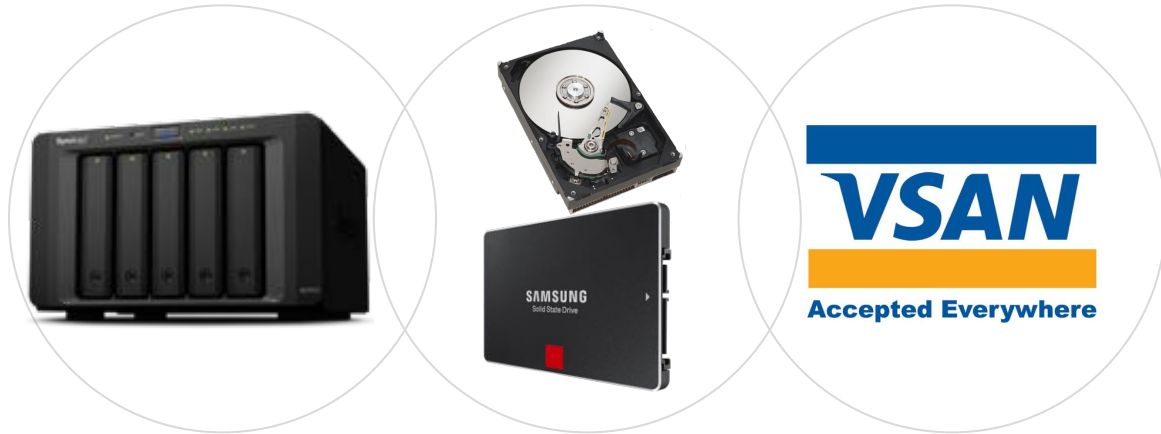
What about 10Gbps? Is there a real reason to use it except for fun?

Infiniband!

Physical Or Virtual?



Storage



HYPERCONVERGENCE

SO HOT RIGHT NOW

memegenerator.net

Budget

- ×Ebay
- ×Slack
- ×Amazon,Scan,Ebuyer?



To the cloud

Paid

Amazon
Azure
Digital Ocean
Bare Metal Cloud

Free

Amazon Free Tier
Ravello 14 day Free Trial
VMware HOL
Cloudcredability

Added Extras

MSDN? Free Azure Credits
vExpert? Go check the
forum



KISS....

Just keep it simple



Boring Items

Veeam?
Rsync
Application Level?



Security & Remote Access

Open VPN

Remote Desktop

Citrix

TeamViewer





Rebuilds

- AutoLab
- Ravello
- Puppet
- Ansible
- Powershell

Patching

×WSUS

×VMware Updates



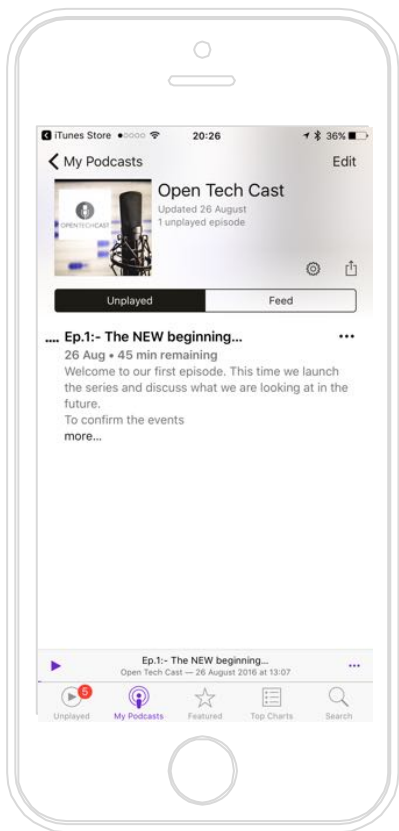
Monitoring and Logs



Load Balancing

- ×Kemp
- ×Netscaler





Spin off project

Want to hear about it on your travels.... Go check out the
[@OpenTechCast](https://twitter.com/OpenTechCast)
www.opentechcast.com



VR Next?

Time to bow to the demo gods.....



Thanks!

Any questions?

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