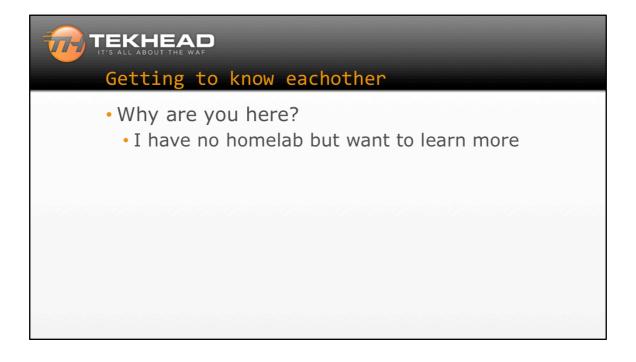
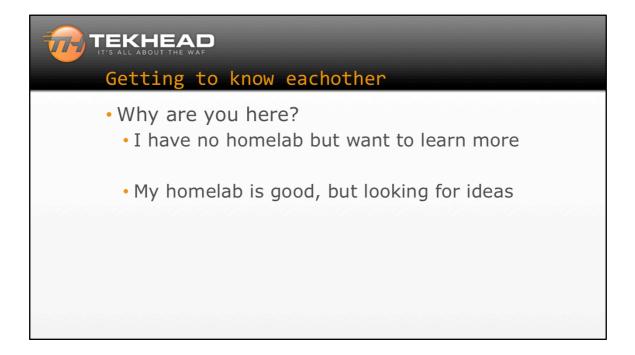


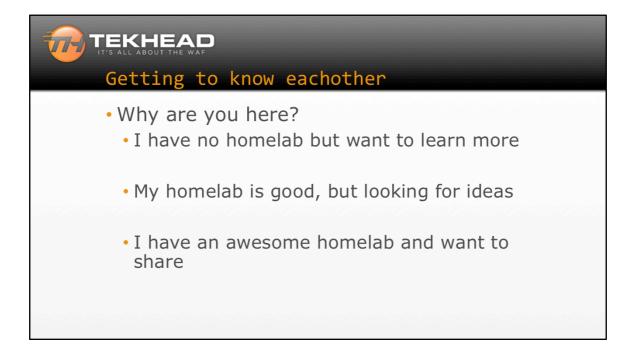
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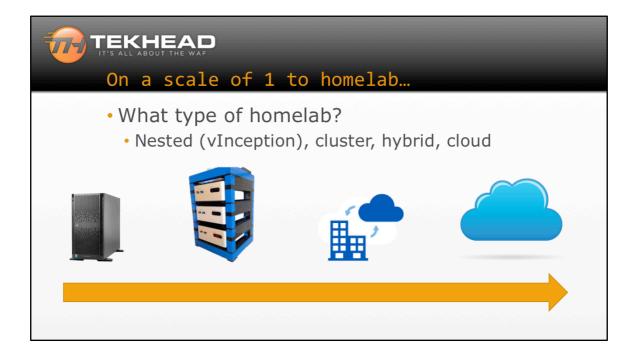
Who am I? Potted history

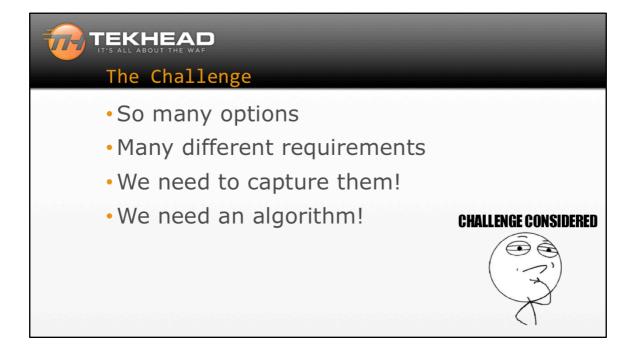














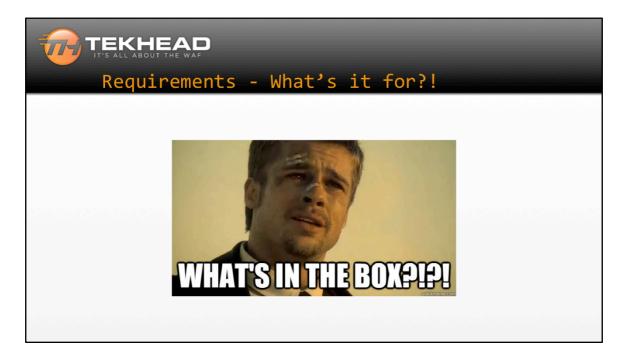
Defining Terms	
Wife Acceptance Factor	
"design elements that increase the likelihood a wife will approve the purchase of expensive consumer electronics products"	





What are your requirements for your homelab? What do you use, and why do you use it?





The IT industry is changing and roles are becoming more diverse – the VMware only admin barely exists What are people using their homelabs for? Mostly vSphere Mostly other, e.g. Microsoft, Citrix, Load Balancers, etc What about hyper-V? Openstack? Nesting hypervisors? If you build your own, don't design for today, design for the next few years



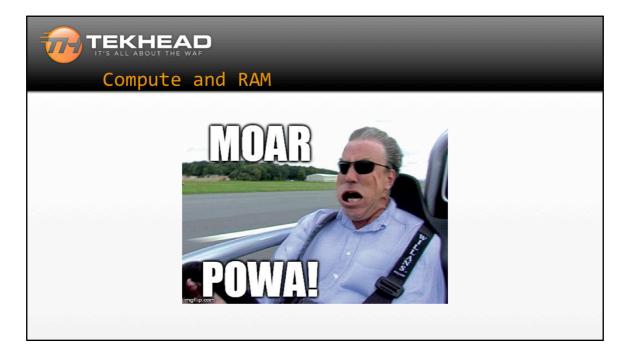
Is it more cost effective to buy cheaper second hand kit, enterprise kit, etc and spend opex on power? What if you can colo with your employer? – Location, Location, Location! Also don't forget UPS! Slight Fire hazard!



If you underspec your CPU & run hot, need more cooling, and generate more noise.

More powerful CPUs = more heat

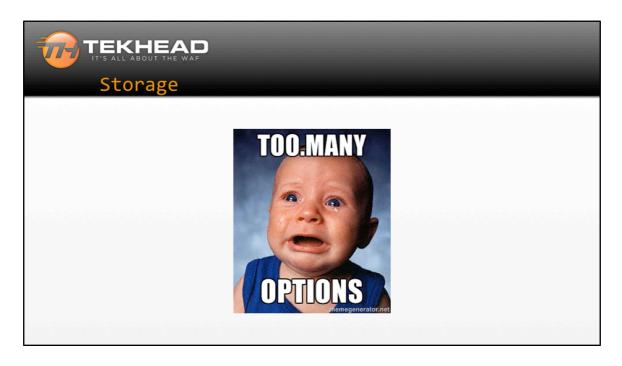
Chassis size inversely proportional to heat exchange and noise



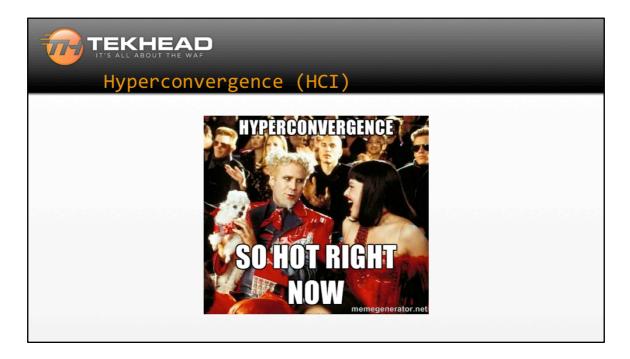
AzureStack minimum 96GB RAM Cores are less important except for noise I3 vs i5 vs i7 - Gareth Homebuild / Whitebox Vendor tower (IBM / HP / Dell etc) Vendor rackmount (ebay) NUC



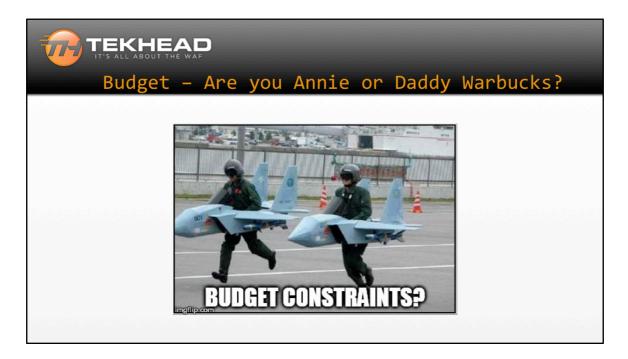
Is there a benefit in a homelab to running multiple NICs? What about power and cooling? CCNA? I run SSG 300-10 and -20 What are the use cases for running multiple 1Gbps links? What about 10Gbps? Is there a real reason to use it except for fun? Infiniband!



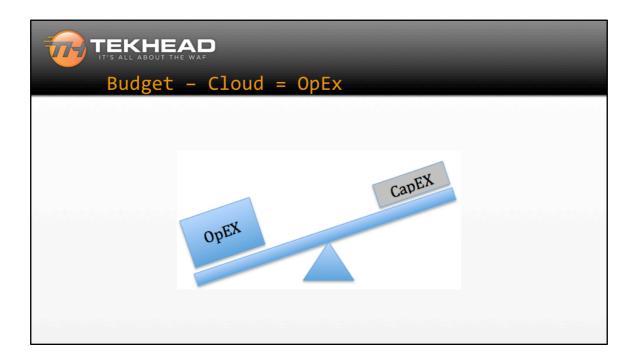
Synology, Qnap, local storage, iSCSI, NFS Flash vs spindle? VAAI What do you want to achieve from your storage? Can you separate your lab storage from your home storage?



Is this the year of HCI? Do you want to run HCI in your home lab? Nutanix CE VSAN HP StorVirtual Atlantis How many bays will your server support?



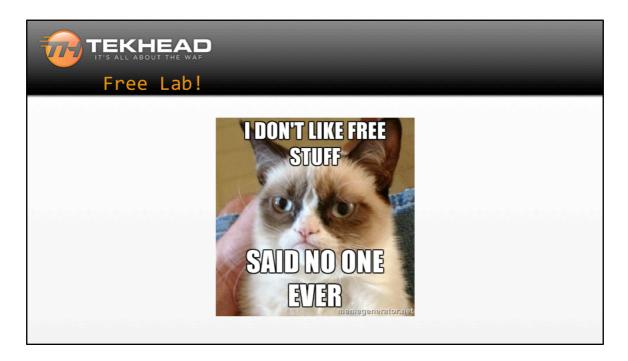
Number one driver behind many homelab solutions



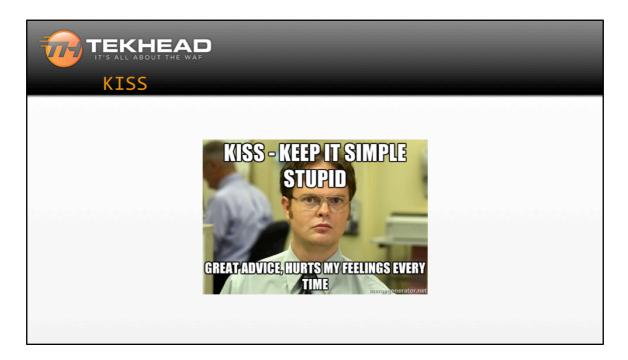


I love running my homelab locally there is just something about doing the install from the ground up on your own tin, BUT is there value in that? How much time do you spend in your homelab monthly? If you spend a grand on a homelab, is that money better spent over several years in AWS?

Amazon AWS Free Tier Azure GCP? Ravello Bare Metal Cloud – baremetalcloud.com



Have we reached a point where so many vendors have their own free online labs / solutions, that we no longer actually need to run homelabs? For example VMware HOL – you can go off piste!



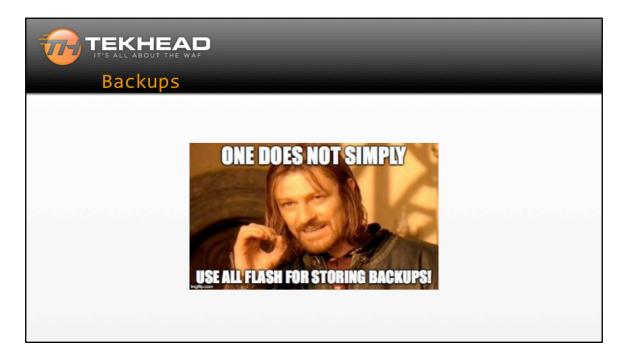
You don't want to spend all your time fixing issues in your lab, unless you want to learn from that!



Veeam NFR Rsync Application level backups



OpenVPN

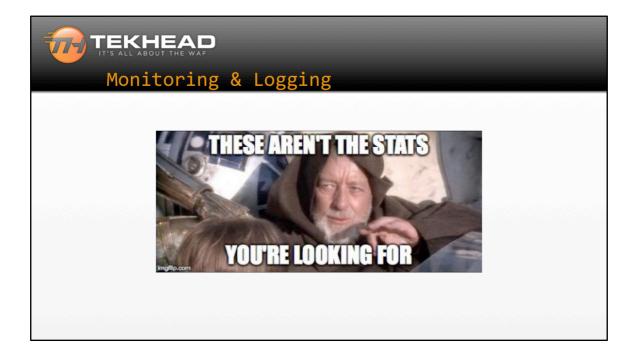


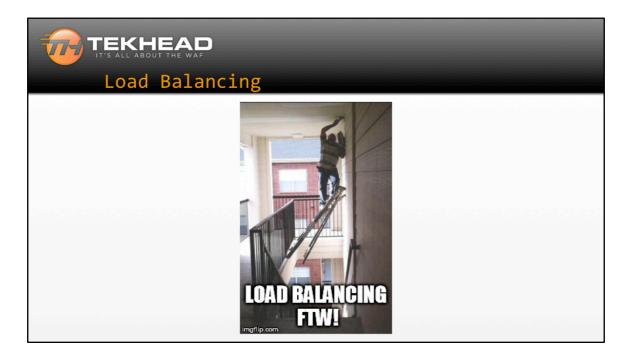
Veeam saved my ass!



AutoLab Ravello







KEMP LB



TEKHEA IT'S ALL ABOUT THE W And fina		
The matatasticotroopy Whose, Conner, The stage most decremary. This is an -Dave There Were Compared per connection Compared pe	reight will over a ton and doent fit through tone to chase.	

