



GOODBYE HELLO STATUS BROCADE.

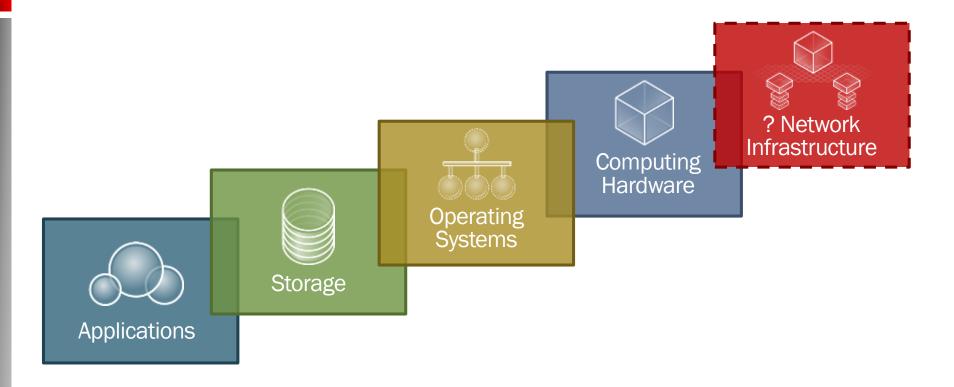
Veränderte Anforderungen durch Cloud Transformationn und Virtualisierung



Networking Is Next



Virtualizations march continues





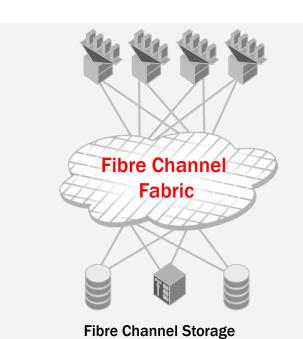
IP STORAGE OVER ETHERNET FABRIC



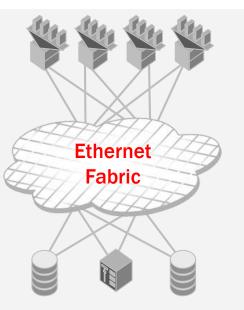


The Network Matters

FOR PERFORMANCE, HIGH SERVICE LEVEL SHARED STORAGE



Proven
Top Performance
Reliability and Availability
Seamless Scalability
Efficient



IP Storage

Scale-Out or dedicated IP Storage: Purpose-Built Network



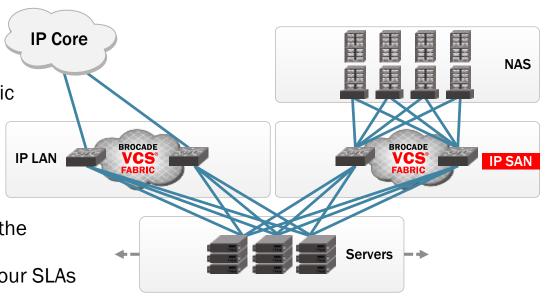
Big Data, Hadoop, SAP HANA, VDI or Vmware Virtual SAN.....

Drivers

- Performance
- Service-level agreements
- Servers driving 100% of NAS traffic

Key Value Propositions

- All of the benefits of VCS fabrics
- Controlled environment
- No unexpected workload surges
- Provision, monitor, and evolve as the solution requires
- Dramatically reduce the risks to your SLAs



IP Storage: Scale-Out NAS and Clustered Storage



Front-end File Access via CIFS/SMB or NFS

Clustered

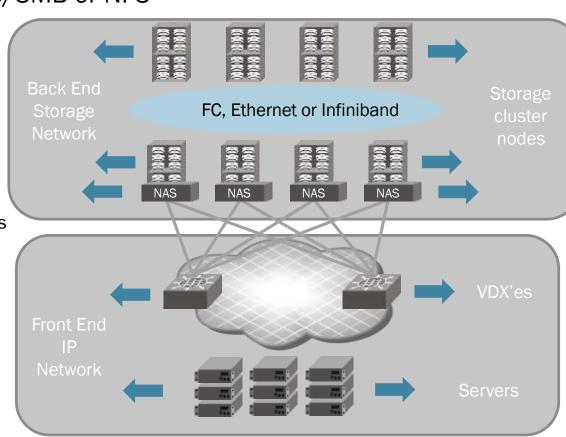
- Single logical entity
- Optimized for East/West traffic
- One or more namespaces
- Appliance/gateway/server model

Seamless

- Scale-out not limited by pair of NAS heads
- Can support a single name space

Network Requirements

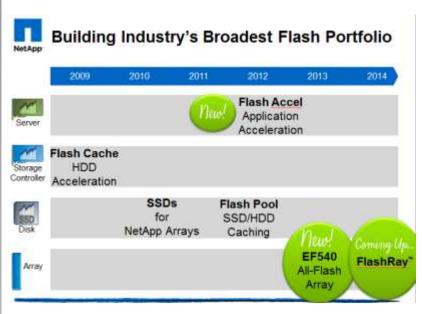
- Management Simplification
- NAS traffic protection
- Reliable network transport w/o hot spots
- Adding capacity non-disruptively
- Multipath access for predictability
- Multi-Tenancy important for providers

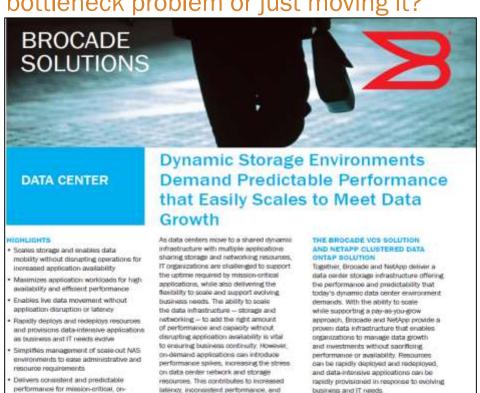


Brocade Fabrics enhance NetApp Flash story

With Flash – Are you solving the I/O bottleneck problem or just moving it?

demand applications





creates the risk of application outages in

and consistency.

an environment that demands predictability

Brocade VCS* Fabric technicipaty, delivered

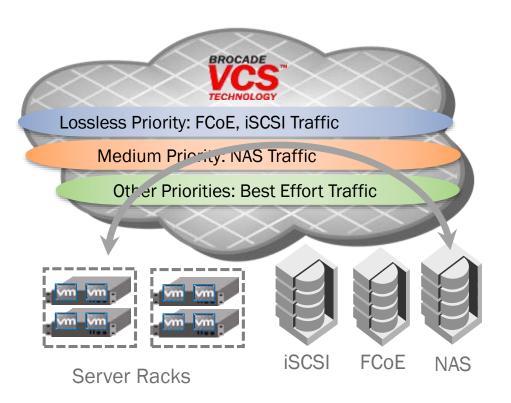
on Brocade VDX* switches, is designed to

enable the huthest levels of Ethernet fabric

IP Storage: NAS Auto-QoS

8

Automation NAS Traffic Prioritization



- All the nodes in the fabric will auto prioritize NAS Storage traffic over other traffic types (NFS, SMB/CIFS)
- Ability to monitor IP Storage traffic through ACL Counters
- Functionality:
- Specify the IP addresses of the NAS nodes
- All the traffic destined to and originated from NAS node will be prioritized in the Fabric



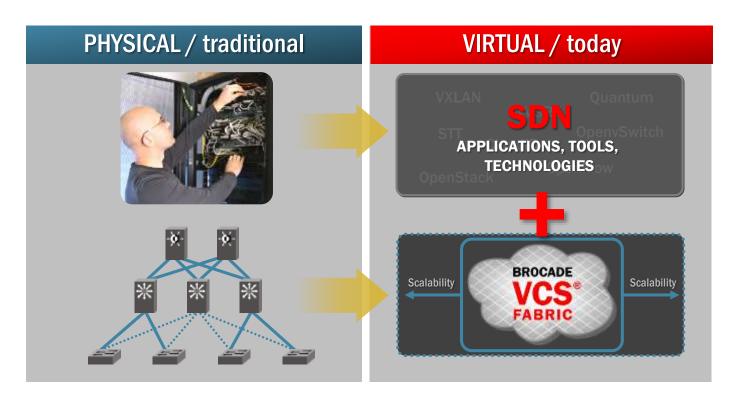




Software Networking



Ethernet Fabrics Enabling NFV & SDN

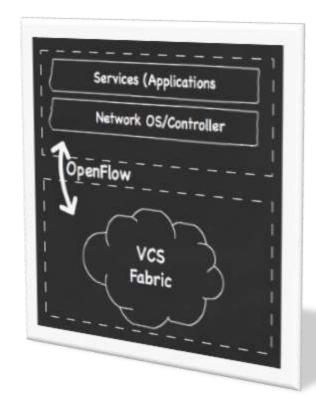




Software Defined Networking – 3 Areas

openFlow

- Separation of control and data plane
- Control Plane agnostic to the underlying hardware
- Network Programmability, <u>automation</u>
- Hardware in Software (NfV)
 - Virtualization of networking components
 - Commodity hardware x86
 - Cost, flexibility, agility, <u>automation</u>
- Integration with higher-order Orchestration platforms
 - OpenStack, CloudStack, vCloud Director



Cloud Service Delivery Today



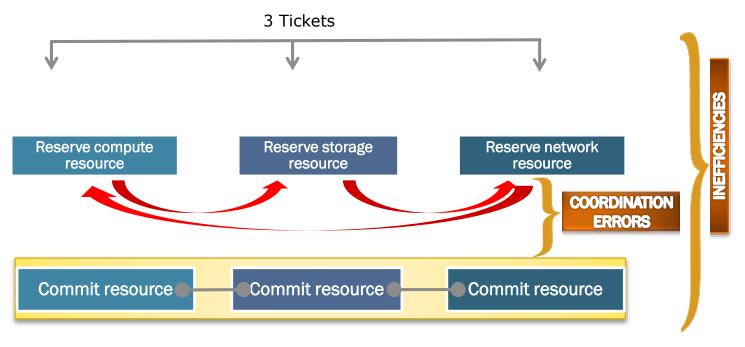
I need 2 VMs with 1G Hz, 2 Gig byte memory and minimum latency. You are #12 on the list and you have an estimated waiting time of 1 to 2 business days.



Server Admin

Storage Admin

::-twork Admin



OpenStack Orchestration and Automation





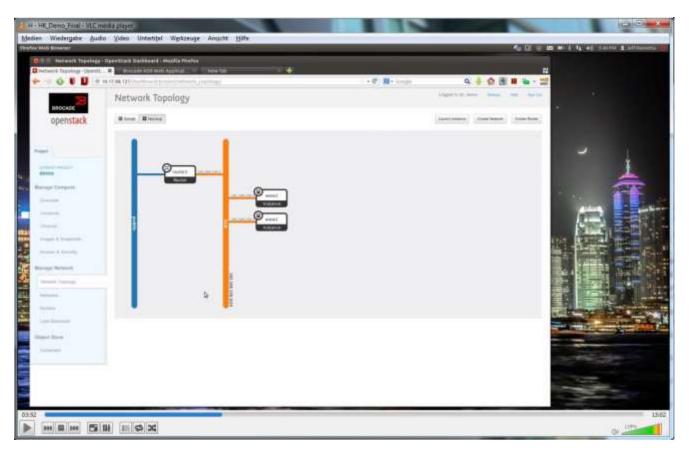
- Defines sizing/SLA parameters/Security parameters
- Creates solution catalog template(s)

Publishes and manages the tenant architecture

- Deploys the overall HW/SW resources.
- Monitors and maintains
- Publishes the template
- Makes a few clicks using the system's selfservice portal
- Waits two minutes and the requested cloud infrastructure resources are ready

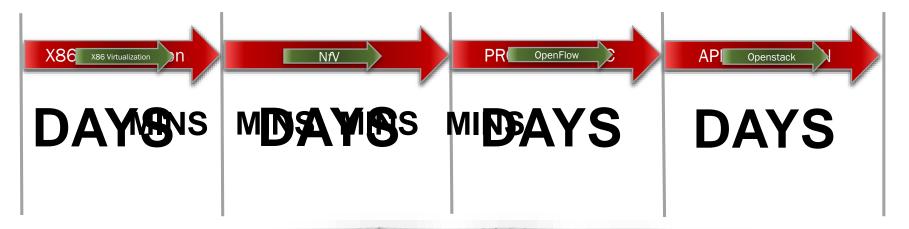
OpenStack Orchestration and Automation





OCHUEVACUDEA DIE ENTERNIE

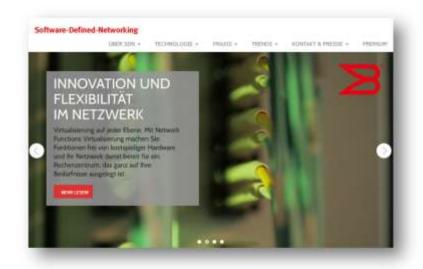






Finden Sie uns im Netz





www.software-defined-network.com



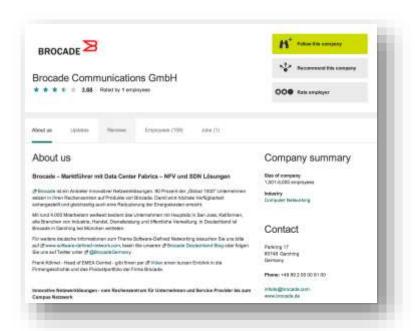
http://community.brocade.com/BrocadeDeutschlandBlog

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IT'S TIME TO SAY GOODBYE TO THE STATUS QUO.





GOODBYE HELLO STATUS BROCADE.

... und weiter geht es mit

Mieten statt kaufen – BNS Brocade Network Subscription Thomas Büntig (Brocade)