

VNF Use case

Susan Hares

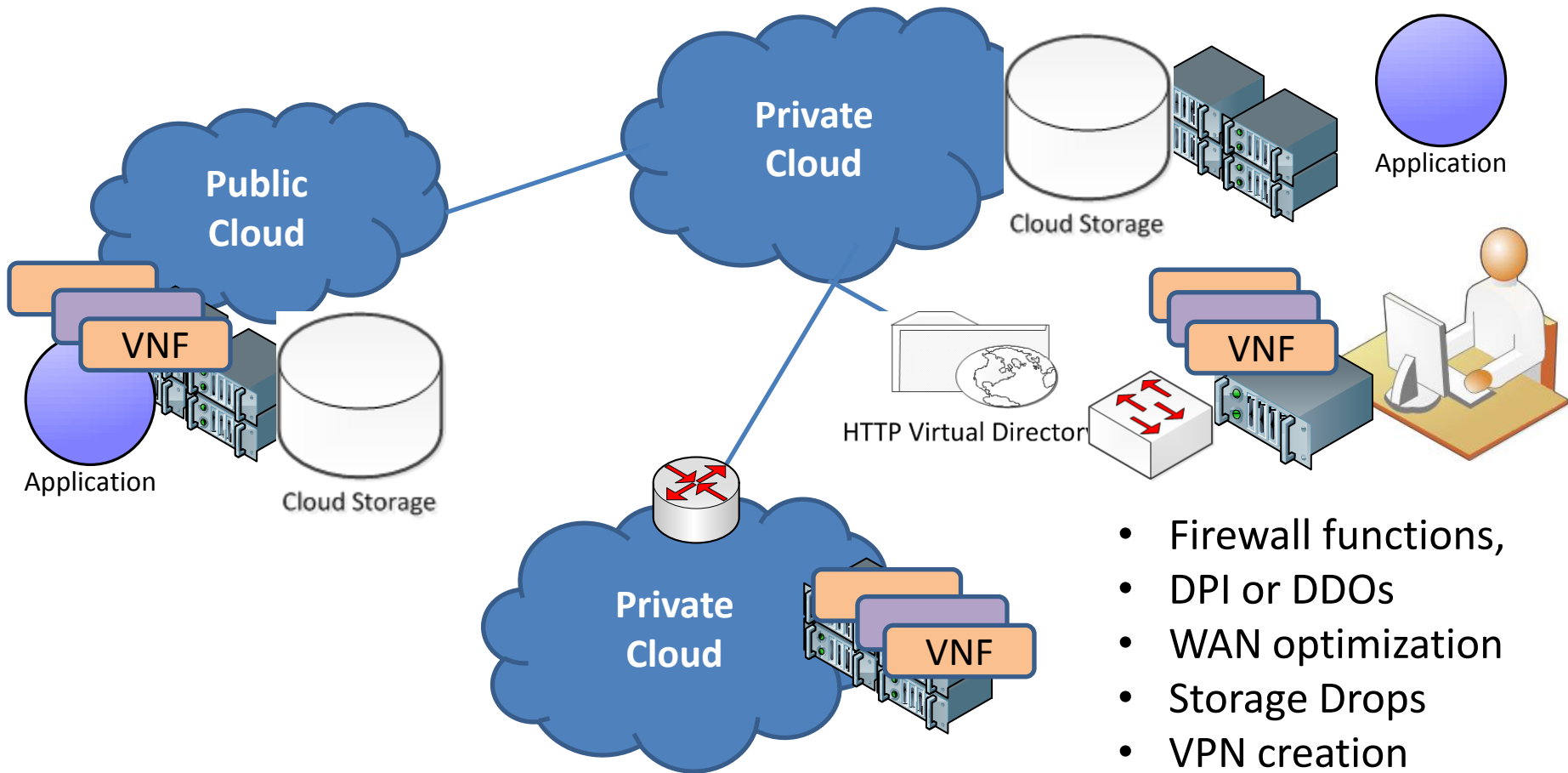
Hickory Hill Consulting

Use cases in draft-hares-vnf-pool-cases-02

Use Cases

- Cloud Bursting
- Stateful parental controls
- Load Balancer
- WAN optimization
 - Access \leftrightarrow Data Center
 - Mobile \leftrightarrow Data Center
- Application placement
 - Place via optimized DNS and DHCP, transfer minimum data

Virtualizing Networks Takes Pools



Software Solution Augments Hardware

- Pools of VNFs
- Support WAN optimization DPI, DOS, access nod, http virtualization (DNS) or DCHP/VPNs

- Firewall functions,
- DPI or DDOs
- WAN optimization
- Storage Drops
- VPN creation
- DHCP/DNS
- Private/Public cloud movement

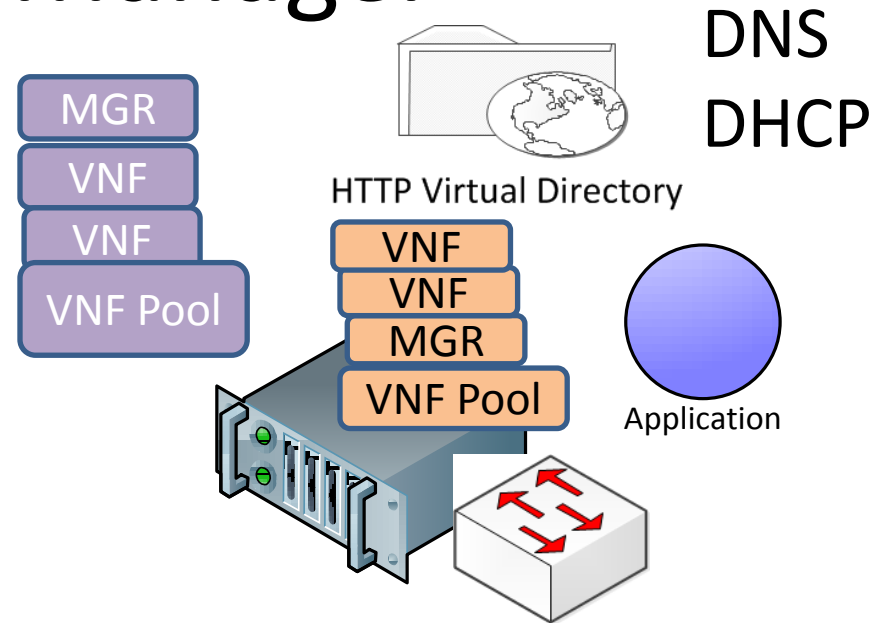
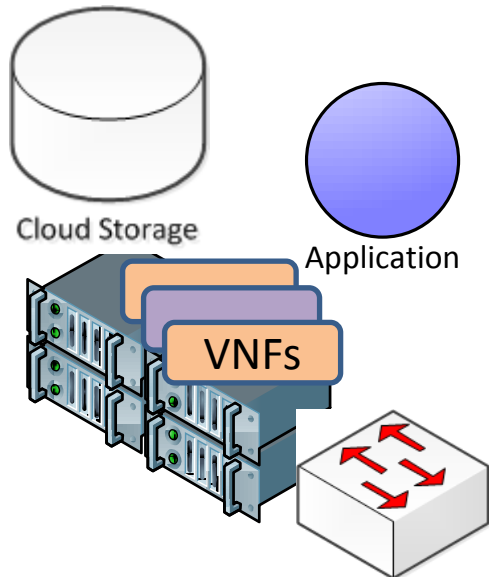
VNF and Pool Manager

Existing VM Interfaces

- Libvirt – VM manager probes
- REST, JASON

Interfaces to Routing or Transport

- CLI, NETCONF, I2RS



VNF

- Reliability and scaling out to more parallel processes rather than depth not needed at all times.
- Carrier grade reliability means multi-vendor interoperable scale-out of VNFs
- VNF may optimize to create best network function (Firewall, WAN Optimization)

Questions?