

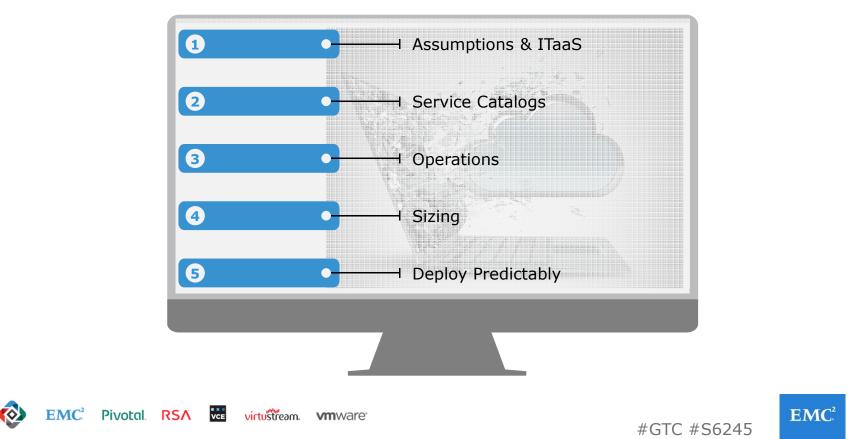
S6245 – IT-as-a-Service With Visually Intensive VDI

TONY FOSTER – PRINCIPAL TECHNICAL MARKETING ENGINEER #GTC #S6245



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AGENDA



ASSUMPTIONS

Virtualization Platform: VMware vSphere

- Cloud Architecture: Private Cloud Leveraging
 VMware vRealize Suite
- Service Catalog: VMware vRealize Automation
- Desktop Platform: VMware Horizon View
- Workloads: Visually Intensive Users using vGPUs





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IT-as-a-Service (ITaaS)

IT-as-a-Service = Optimizing IT Production for Business



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SERVICE CATALOG

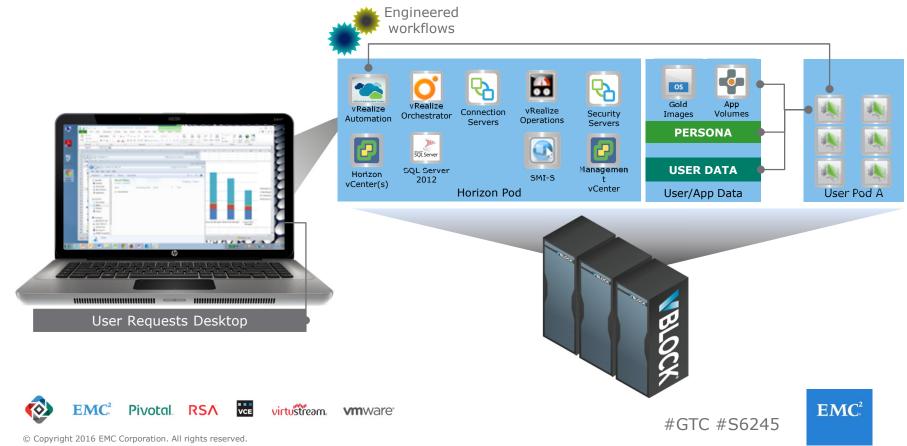
Name W81x32-VI-M-1 (W81x32-Visint W81x32-VI-L-1 (W81x32-Visint-	S Re Re P Re	og off eboot	1 (W81x32-Visint-Medium) 1 (W81x32-Visint-Large)	Owner Charles Xavier Charles Xavier equest

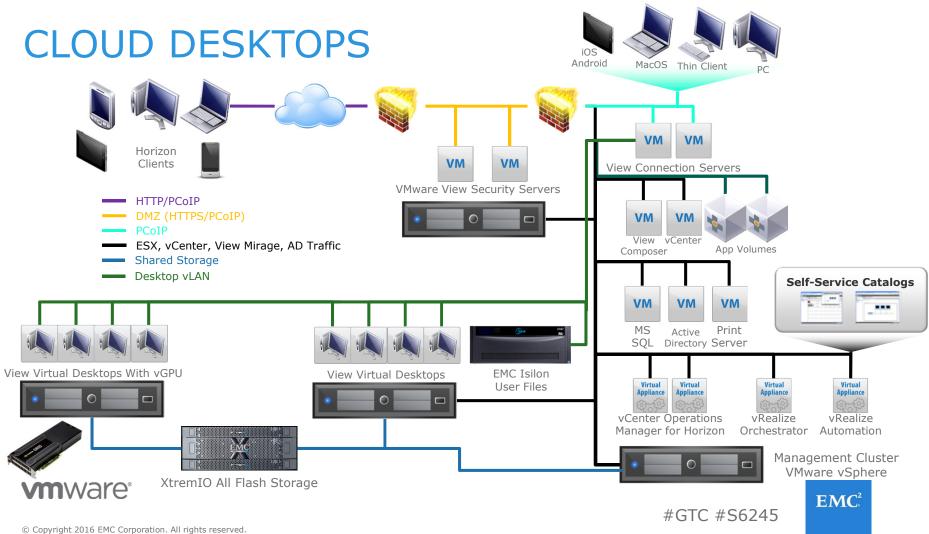
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EMPOWERING END USERS

REQUEST A WORKSPACE



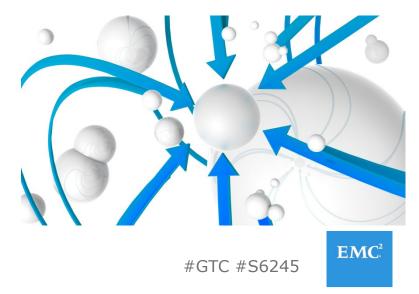


BALANCING

Cost, Performance, and Usability

- Cost
 - Initially Comparable to Physical
 - Future Cost Decrease
 - Hardware Upgrades
 - OS Upgrades
 - Downtime
- Performance
 - Shared User Load
 - Dedicated Resources

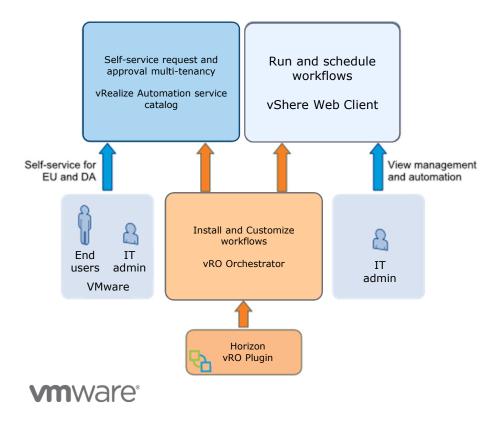
- Usability
 - Delivered On Demand
 - Self Service
 - Mobility



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SELF-SERVICE

With VMware vRealize Orchestrator and VMware vRealize Automation



- vRealize Orchestrator plug-ins allow seamless automation
- Workflows can be used with the:
 - vSphere Web Client
 - vRealize Automation service catalog

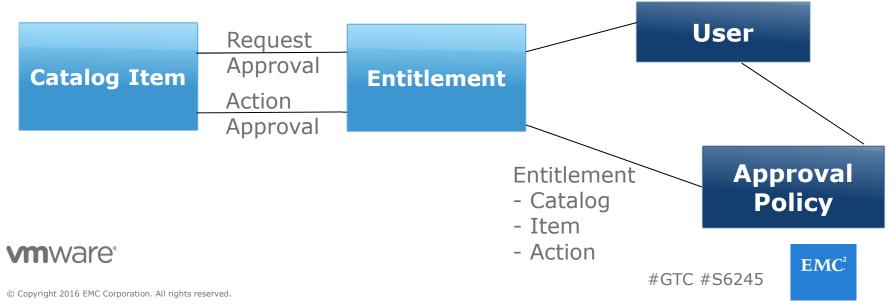
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CATALOG SECURITY

- Any catalog request, whether it is a request for a catalog item or to perform an action can be subject to approval.
- Approval policies are linked via a item or action entitlement to users.



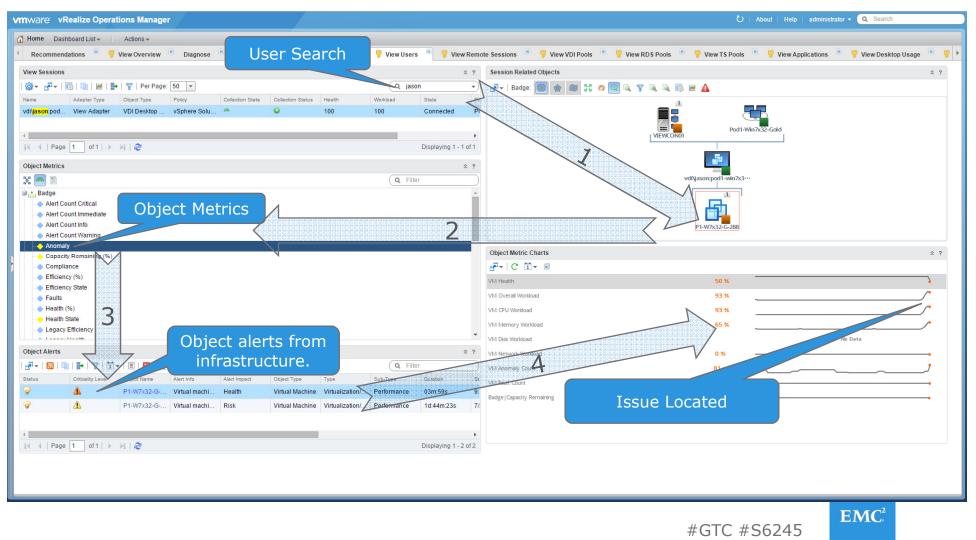
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END POINT AND OPTIMIZATIONS

- Physical Data Center Controls
- Move Anti-Virus to the Hypervisor
- Disable Removable Storage Devices
 - <u>http://ldrnrd.me/usbredirect</u>
- PCoIP Settings
 - <u>http://ldrnrd.me/pcoipsettings</u>
- QOS for congested networks
 - <u>http://ldrnrd.me/netopguide</u>



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SIZING

- Application Documentation
 - Esri <u>http://1drnrd.me/esrisysreqs</u>
 - Revit <u>http://1drnrd.me/revitsysreqs</u>
 - NVIDIA Documentation
 - <u>http://www.nvidia.com/object/grid-enterprise-</u> resources.html (< Application Guides)
- VMware Documentation
 - Best Practices <u>http://1drnrd.me/3Dbestpractices</u>
 - Engineering Workloads Reference Architecture -<u>http://1drnrd.me/engineeringRA</u>
- Assessment





NEXT STEPS

- Gather Requirements
- Leverage Reference Architectures
 - <u>http://ra.federationeuc.com</u>
- Plan Sizing
 - GPU
 - Compute
 - Storage
- Proof of Concept (POC)







DEPLOY PREDICTABLY

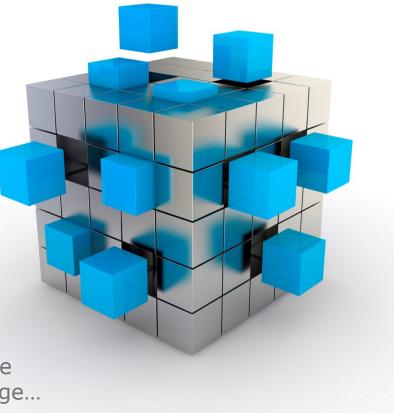
- Find Compute Capacity
- Find Storage Capacity
- Find Compute and Storage Intersection
- Build in a block like approach

Example:*

8 Desktops per host / 1600 Desktops per storage Intersection: For every 200 hosts increase storage...

* For illustrative purposes only

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THANK YOU FOR ATTENDING

- Complete the Session Survey in the Mobile App
- Join the NVIDIA & VMware Community <u>www.nvidia.com/nvc</u>
- Additional Questions
 - Email: <u>anthony.foster@emc.com</u> or <u>euc.solutions@emc.com</u>
 - Twitter: @wonder_nerd
 - More Federation Information: <u>http://emcfederation.com/</u>
 - Personal Website: <u>http://wondernerd.net</u>



