

VMUG User/con

Kansas City
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vRealize Operations

- Intro
- Features
- Architecture
- End Point Operations
- Live Demo

vROPs – Tame the VM

- Let's keep it interactive
 - I'm not the expert, you also have valuable input
 - Ask questions! The only dumb question is one that is never asked.
 - What are your experiences with vROPs?
-
- Tweet the session - @SirGeekness @KCVMSG

About me

- Originally from Baltimore, MD
- Lived in CA, WI, KY
- Currently live in Carmel, IN
- Have had a home lab since mid 1990s
- Geek my entire life
- Doing IT work since 1991
- Have had a love/hate relationship with VMware since 2005
- VCP-DCV, VCP-NV

vROPs Features

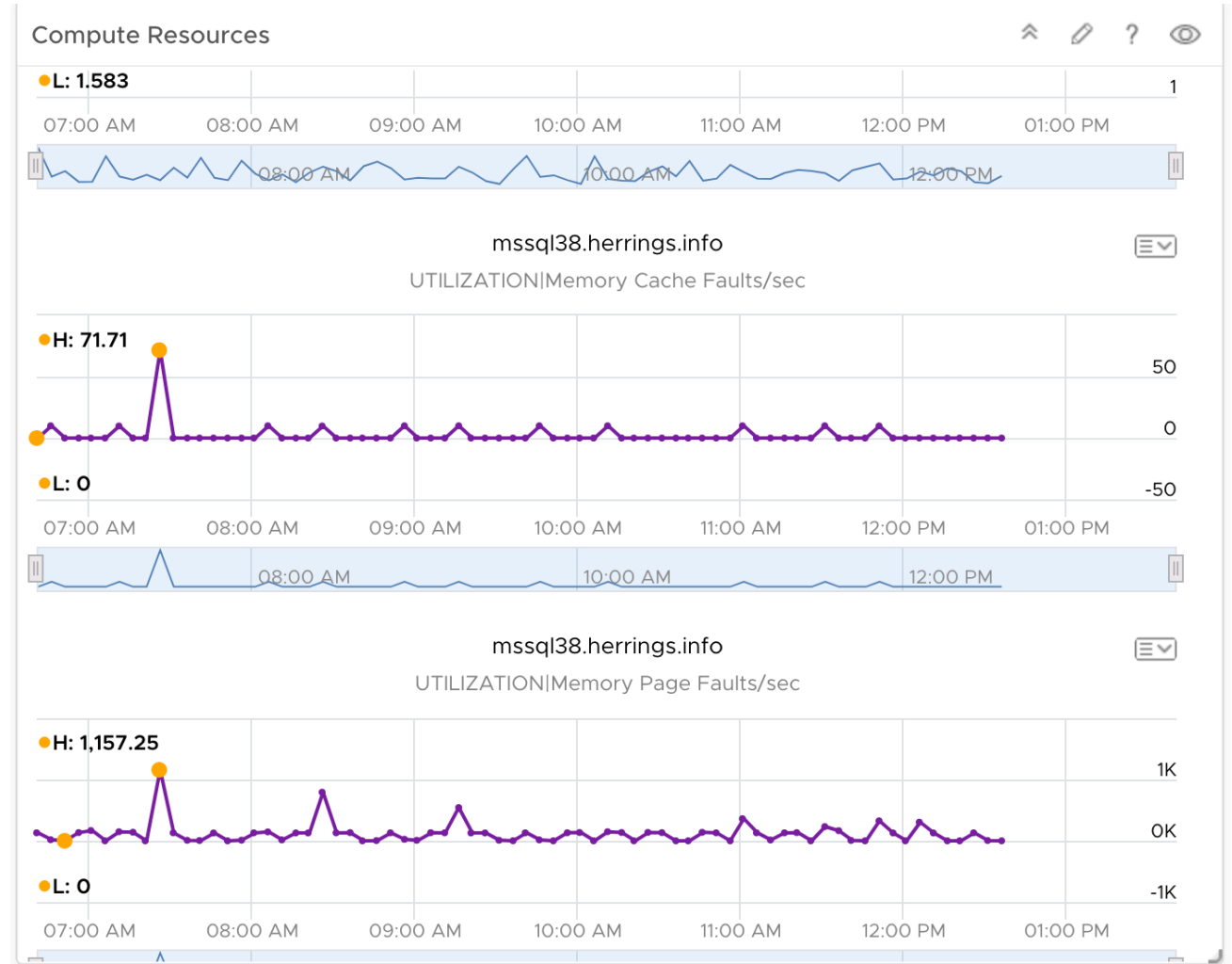
- Single pane of glass visibility to infrastructure and workload
- Metric and Event correlation
- Identify performance issues
- Troubleshoot
- Capacity management and planning
- Additional Management Packs
 - <https://marketplace.vmware.com>
 - Some here are free and some paid
 - Blue Medora provides quality management packs
 - <https://bluemedora.com/>

Why deploy the End Point Operations agent?

- Gain greater end to end visibility from your environment to show management and executives if specific KPIs are within limits.
- Create custom dashboards that tell the story of how business critical OS and applications are performing.
- Create more informative reports that provide predictive metrics based on future load, capacity needs, migration to HCI, migration to various cloud environments.
- VMware tools only tells part of the OS story, EPOPs tells the rest!

EP Ops

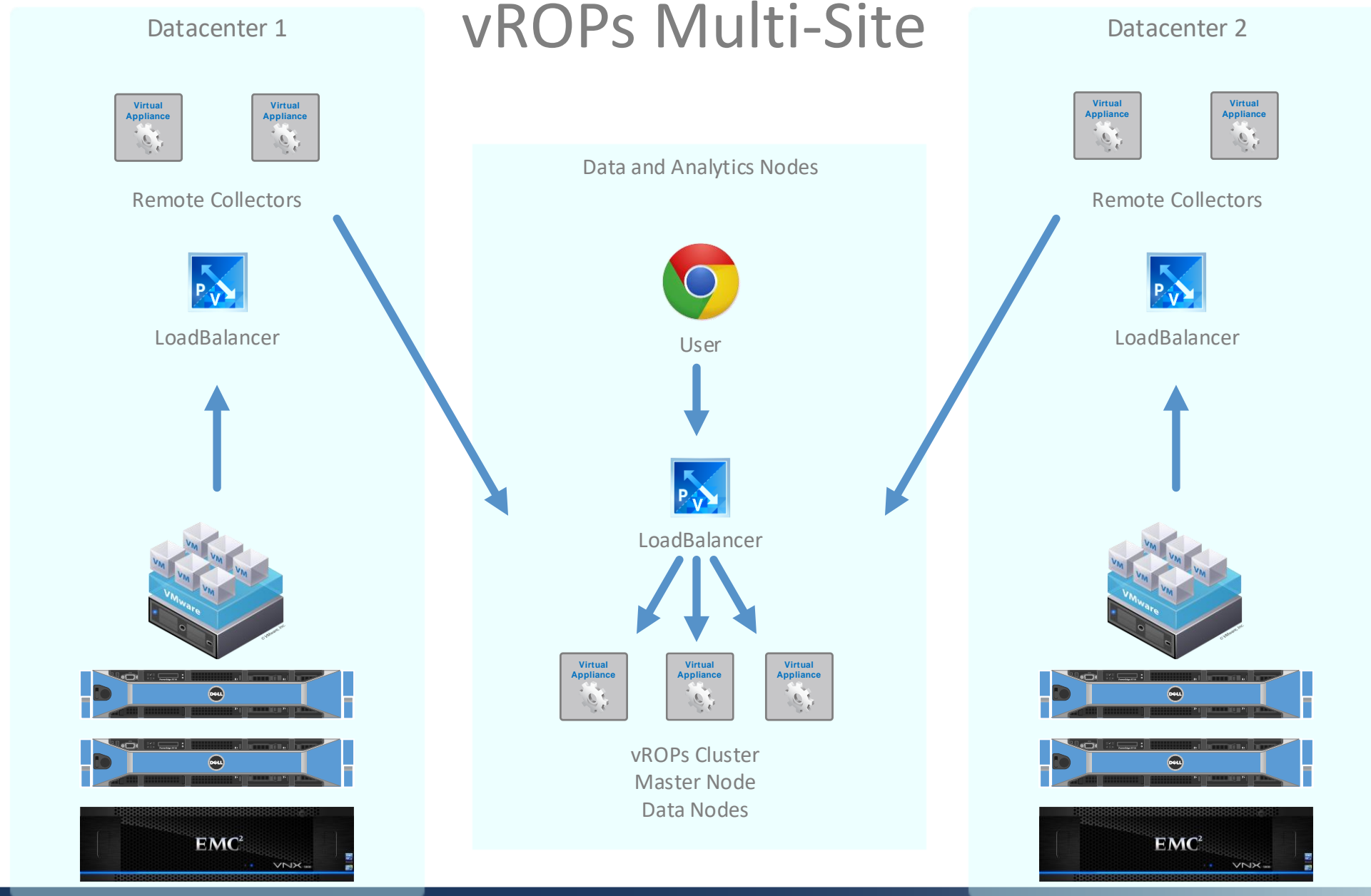
- Provide metrics and other information from individual VMs
- Correlate and create dashboards with other infrastructure items
- Identify issues from multiple points in the infrastructure



Architecture

- Multiple nodes provide redundancy and load distribution
- LB architecture for client access as well as agent connectivity
- Does not include an ILB like Log Insight
- NSX Edge is supported as well as other common LBs
- In cluster configurations a SAN certificate is needed because multiple hostnames will make up the cluster.
- Add Remote Collectors if gathering metrics from a remote site or use them locally to reduce the load of the Analytics nodes.
- Remote Collectors can be load balanced as well.

vROPs Multi-Site

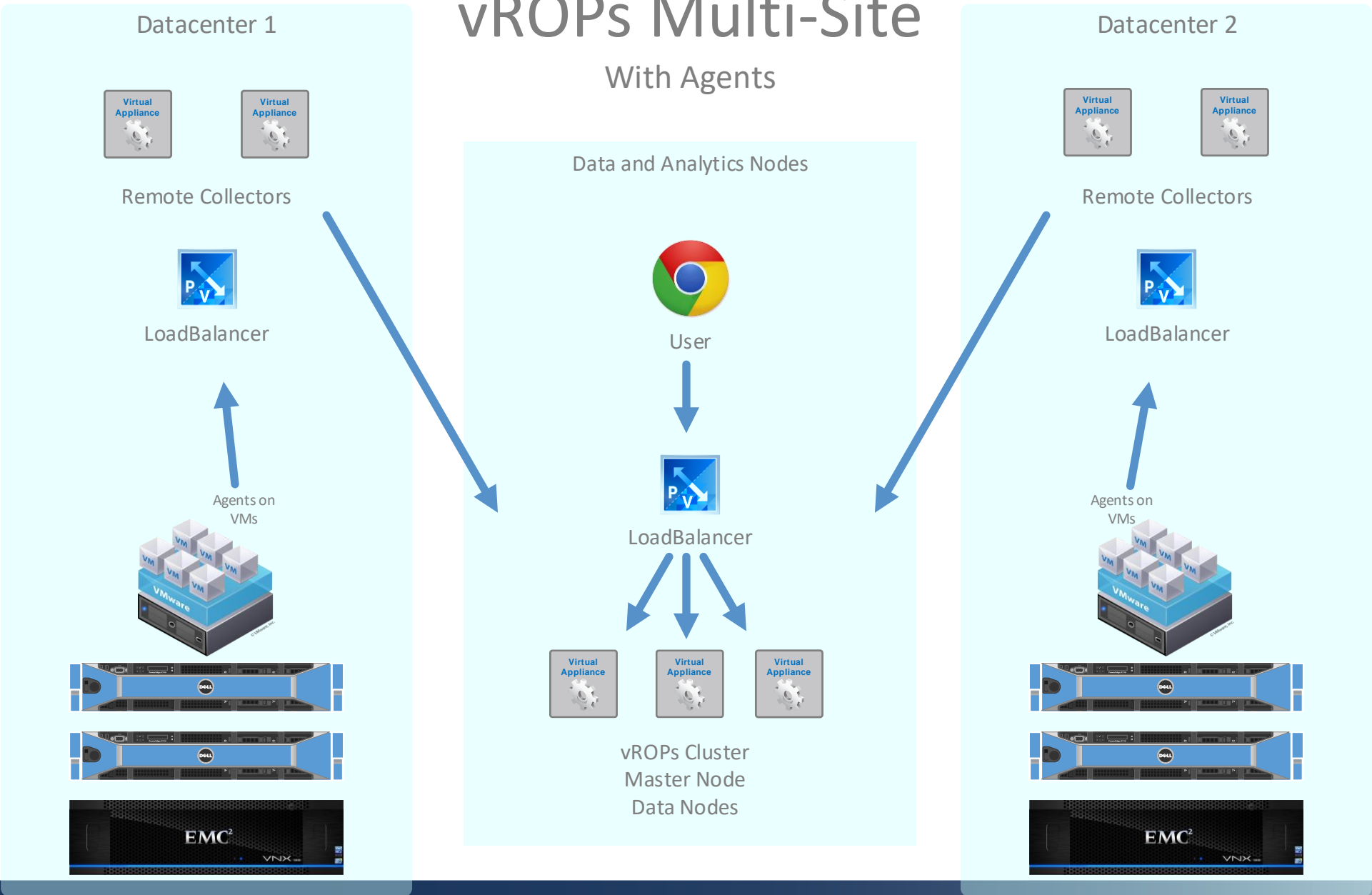


End Point Operations

- Agents provide additional metrics from within the operating system.
- A small set of metrics is enabled in the default policy. Additional metrics can be enabled through creating a new policy or modifying the one in use.
- Useful in providing metrics to troubleshoot performance issues within the OS.
 - MS SQL Server
 - JVM Application Servers
 - Other applications where memory utilization may not be visible through VMware Tools

vROPs Multi-Site

With Agents



EP Ops Installation

- Copy Thumbprint from the Admin vROPs console
- Create an EPOps service account within vROPs
- Locate the appropriate agent installer
 - Windows and Linux packages with Java included
- Run the installer and provide the following
 - vROPs Load Balancer or DNS alias hostname
 - Thumbprint
 - Service account
 - Finish install
- Verify new EP Ops host within vROPs Administration

Live Demo

To reach me

- Craig Herring
- craigherring@gmail.com
- @SirGeekness
- Content available at:
 - <https://github.com/craigherring/vROPsDashboards>
- Fun fact
 - Carmel has 102 Roundabouts
 - HomeLab is a full rack of gear



