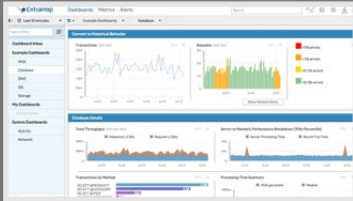


# ExtraHop for SDN

## PERSISTENT VISIBILITY FOR INCREASINGLY DYNAMIC ENVIRONMENTS



As your organization launches into software-defined networking (SDN), you will need monitoring capabilities to match. The ExtraHop platform makes sense of all data-in-flight, providing you with the comprehensive and continuous visibility required for increasingly dynamic environments.

*“ExtraHop has quickly become my go-to solution to really understand what’s happening in the IT environment.”*

— **Justin Long**  
Senior IT Manager,  
McKee Foods

### AT-A-GLANCE

- Understand the performance impact of SDN orchestration
- See into overlay network technologies with decapsulation for VXLAN, NVGRE, Fabricpath, TRILL, and other tunneling protocols.
- Monitor application workloads as they migrate across the datacenter
- Auto-discovery and classification of applications, VLANs, and devices
- Map relationships between systems based on observed communications
- Validate security policies are in place for new network segments

SDN offers IT Operations the ability to respond rapidly to new requirements and even orchestrate automated changes. However, the increasing dynamism of network configurations also entails new challenges for monitoring and management.

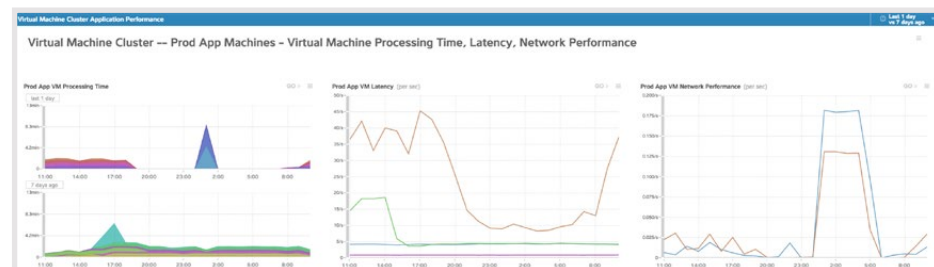
The ExtraHop platform brings visibility to dynamic SDN environments. By reconstructing all sessions, flows, and transactions, ExtraHop provides you with persistent visibility even as your environment changes.

### Key ExtraHop features for supporting SDN:

- Decapsulation for tunneling protocols, including VXLAN, NVGRE, Fabricpath, and TRILL
- Linear scaling architecture supporting up to a sustained 40 Gbps throughput, with 40 Gbps bulk SSL decryption
- Bi-directional REST API enabling orchestrated deployments through Citrix, Cisco, Openstack, and VMware management consoles
- Open Data Stream for exporting real-time metrics to other platforms

### OVERCOME SDN DEPLOYMENT CHALLENGES

- **SDN orchestration** – Did your new SDN orchestration policy help or hurt application performance? The ExtraHop platform builds performance baselines for all tiers of your application so that you can monitor the impact of changes in real time.
- **Hybrid deployments** – ExtraHop provides comprehensive visibility across physical, virtual, and cloud environments. You can map relationships between any network-connected assets, even communications bridging traditional and SDN environments.
- **Controller and switch synchronization** – SDN can be complex. In addition to deep Layer 7 (application layer) visibility, ExtraHop provides detailed L2-L4 metrics to help you detect and fix intermittent issues.



You can easily create custom dashboards to monitor applications, networks, and more. The screen above compares the performance for a virtual machine cluster during two different time periods.



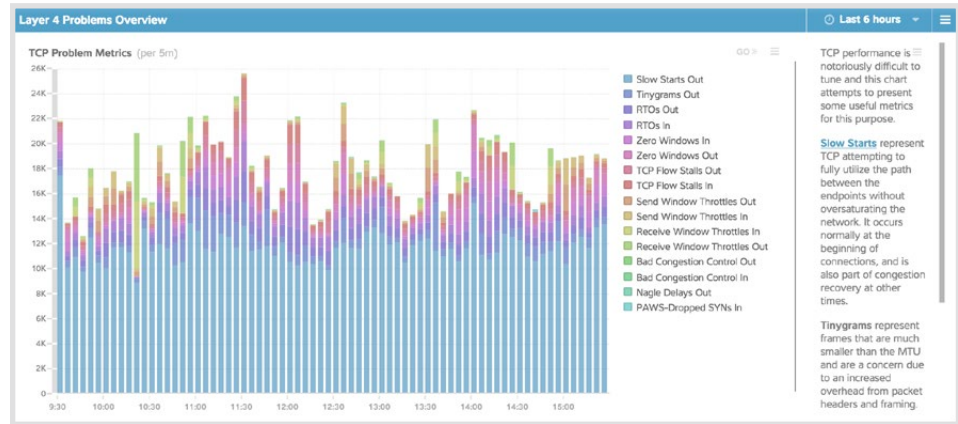
**TRY THE ONLINE DEMO!**

Interested? Check out our free online demo. You can explore the interface for yourself and follow an incident-response scenario.

[www.extrahop.com/demo](http://www.extrahop.com/demo)

## STAY ON TOP OF POTENTIAL SECURITY ISSUES

As new machines and micro-segments proliferate, the ExtraHop platform helps you to validate that security policies remain in place, audit encryption being used, track access to sensitive resources, monitor abnormal behavior, and more. Specific to SDN environments, ExtraHop keeps track of security breaches or attacks directed at the control plane.



*In addition to deep Layer 7 (application layer) visibility, the ExtraHop platform also offers L2-L4 metrics, including advanced TCP analysis.*

## KEEP TRACK OF DYNAMIC IT INFRASTRUCTURE

SDN transforms the network from a bottleneck into an enabler of an increasingly dynamic environment. The ExtraHop platform equips you with persistent visibility as SDN accelerates the dynamism of application workloads, user mobility, and policy-driven connectivity. You can monitor real-time application performance even as compute and storage resources grow or shrink, or applications migrate across the datacenter.

## ABOUT EXTRAHOP NETWORKS

ExtraHop is the global leader in real-time wire data analytics. The ExtraHop platform analyzes all L2-L7 communications, including full bidirectional transactional payloads. This provides the correlated, cross-tier visibility essential for today's complex and dynamic IT environments.

Name	MAC Address	IP Address	Discovery Time
VMware 2.25.24.180	vm 00:0C:29:C9:31:45	24.180	Thu Oct 23 2014 10:15
pf.syndprod.example.com	vm 00:0C:29:4C:26:85	4.2.3	Thu Oct 23 2014 09:42
VMware 172.29.1.221	vm 00:50:56:B8:6B:85	172.29.1.221	Thu Oct 23 2014 09:29
mongo1	vm 00:50:56:B8:2B:E4	172.23.2.27	Thu Oct 23 2014 09:29
VMware B82BE4	vm 00:50:56:B8:2B:E4		Thu Oct 23 2014 09:29
nfe1	vm 00:0C:29:54:EC:5F		Thu Oct 23 2014 09:26

*Through analysis of observed traffic on the network, ExtraHop automatically discovers and classifies network-connected entities, including newly created VLANs and VMs.*

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