

The ExtraHop Platform for Cisco UCS

Gain IT Operational Intelligence by Analyzing Wire Data in Cisco UCS Environments

BENEFITS

- Answer critical IT and business questions
- Support virtualization and private cloud initiatives
- Resolve potential problems before they impact users
- Troubleshoot issues faster
- Monitor database performance without agents or profilers
- Deploy quickly with automatic discovery and classification



The ExtraHop platform is certified to work with the UCS platform in enterprise datacenters and UCS-E in branch offices. ExtraHop also supports Citrix VDI deployments and is verified as Citrix Ready for XenDesktop, XenApp, and NetScaler.

With ExtraHop, IT teams gain IT operational intelligence by accessing a previously untapped wealth of wire data within Cisco Unified Computing System (UCS) environments. Wire data equips IT teams to optimize performance and efficiency, monitor end-user activity, and deliver business intelligence. The ExtraHop platform uses a dynamic, scalable, and non-invasive approach and is the only solution certified to work with both the UCS platform in enterprise datacenters and the UCS-E in branch offices.

Cross-Tier Insight to Solve Problems Fast

Traditional monitoring tools measure resource utilization—CPU, memory, and disk I/O. Unfortunately, those measurements reveal very little about application performance as experienced by users, especially in highly virtualized environments. Using only resource-utilization data, IT teams have to piece together a picture of what is actually happening with their applications.

ExtraHop takes a better approach to monitoring performance in UCS environments. First, it passively reconstructs sessions, flows, and transactions from a copy of network traffic. Then it extracts valuable L2-L7 performance metrics from the network, web, VDI, middleware, database, and storage tiers. This equips IT teams with the real-time operational intelligence they need to be proactive and solve problems fast.

- **Pinpoint the root cause of slowness** with correlated transaction monitoring across tiers.
- **Get application-level details needed to solve problems**, such as errors, methods, URIs, stored procedures, and file names.

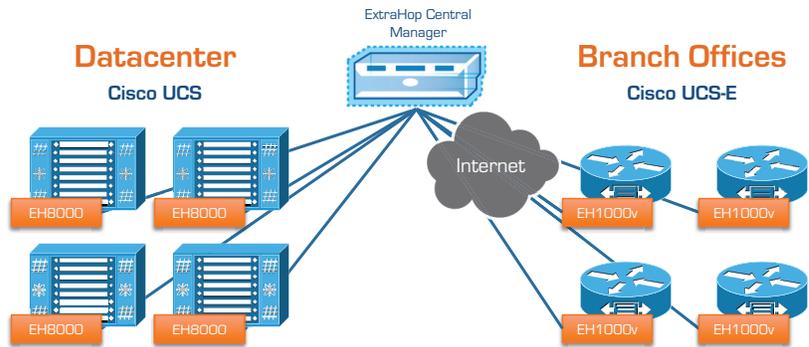
- **Proactively address emerging issues** before they affect the end user with real-time dashboards and early-warning alerts.
- **Define custom metrics in minutes** to find the snowflake in an avalanche and deliver the metrics that you care about—not just what traditional monitoring vendors build into their tools.

Dynamic, Continuous Monitoring for All Applications

Cisco UCS deployments can involve tens of thousands of VMs running on thousands of blade servers in hundreds of chassis, each with an 80Gbps backplane. ExtraHop is the only solution that can adapt to these dynamic environments and scale to monitor all application communications.

- **Discover and classify applications and VMs** automatically as they appear on the network.
- **Monitor all applications**, homegrown and off-the-shelf, regardless of technology platform.
- **Monitor all transactions** in real-time—no sampling or synthetic transactions.
- **Monitor all storage systems** regardless of vendor.

Name	MAC Address	IP Address
Apple 1CB849	3C:07:54:1C:8B	
Argon-1010-router	00:1B:71:86:ED	
Apple E51C7F	F8:1E:DF:ES:1C	
Apple 24FB6B	C4:2C:03:24:FB:6B	1010
ALLIED TELESYS KK 0CBE32	00:0D:DA:0C:BE:32	2
yterbium	BC:AE:C5:23:AF:39	1010, 10.10.6.119
Polycorn 25E3E4	00:04:F2:25:E3:E4	4
VMware 3896BC	00:0C:29:38:96:BC	1010
VMware 397D1E	00:0C:29:39:7D:1E	1010
HP 32314C	00:1F:29:32:31:4C	1010
extrahop	00:0C:29:82:B1:C9	1010, 10.10.251.71
VMware 017F3B	00:0C:29:01:7F:3B	1010
ASUS 23B128	BC:AE:C5:23:B1:28	1010
VMware B2B1C9	00:0C:29:82:B1:C9	1010
HP 873679	00:18:71:87:36:79	7



ExtraHop equips IT teams with real-time insights from across their entire UCS environment.

ExtraHop automatically discovers and classifies applications and devices.



PostgreSQL



ExtraHop provides monitoring for numerous relational database management systems, including Oracle, IBM DB2, IBM Informix, Microsoft SQL Server, MySQL, PostgreSQL, Sybase ASE, and Sybase IQ.

ExtraHop provides the real-time operational intelligence required to make IT more agile and proactive. The world's best-run IT organizations use ExtraHop to manage more than half a million devices and monitor over a trillion transactions daily, including Adobe, Alaska Airlines, Concur, Expedia, and Microsoft.

Try ExtraHop for free at www.extrahop.com/discovery.

Answer IT and Business Questions

There is a wealth of wire data in UCS environments that can provide valuable IT operational intelligence. By reconstructing sessions, flows, and transactions in real time and then mining the entire transaction payload, ExtraHop delivers insights to answer critical questions, such as:

- Which users have violated policy by accessing sensitive files and folders?
- How does this new application perform compared to the previous version?
- Which API web services calls are failing and why?
- Which memcache keys are not being stored because they exceed the default 1MB limit?
- Which types of client devices are adversely affected by the latest software update?
- Is the application duplicating transactions, and if so, who is affected?

Answer IT and Business Questions

ExtraHop worked with Cisco to test and certify the ExtraHop platform for both the UCS and UCS-E. As a result, not only does the ExtraHop platform deploy quickly and require no agents or probes, it is the only solution certified to work with the UCS platform in enterprise datacenters and the UCS-E in branch offices.

- Deploy in 15 minutes off the UCS Fabric Interconnect.
- Gain immediate visibility with no configuration required.
- Monitor branch offices running UCS-E blade servers.
- Enjoy peace of mind with a passive, network-based approach that imposes zero overhead on systems and does not perturb applications.
- Easily customize monitoring without modifying application code.

