Key Health Indicators The Foundation for Maintaining Healthy Lync Server Server

What are Key Health Indicators (KHI)?

Key Health Indicators are performance counters with thresholds aimed at revealing user experience issues. Gathering KHI data is usually the first step to implementing the Call Quality Methodology (CQM), which is focused on ensuring a quality audio experience for Lync users.

KHIs are used in addition to standard Lync Monitoring Solutions (e.g. SCOM, Synthetic Transactions, Monitoring Server) and not instead of those solutions.

Collect the KHI performance counters and populate the accompanying KHI spreadsheet to produce a scorecard that will help you determine the server health of a Lync deployment. Once populated, it guides you in repairing the environment and gives additional insight to other stakeholders. Evaluate KHIs on a monthly basis and incorporate them into any deployment's ongoing operational processes.

Download the Lync Server Networking Guide to see the full list of KHIs.

To Collect KHI Data

1. Run the KHI script included with the Lync Server Networking Guide on each Lync Server. This will create a Data Collector inside of Performance Monitor and name it KHI. By default, data will be polled every 15 seconds.

2. Before the start of your company's business day, go to each Lync Server and start the KHI Data Collector.

3. At the end of that day, stop the KHI Data Collector and copy the data to a central location.

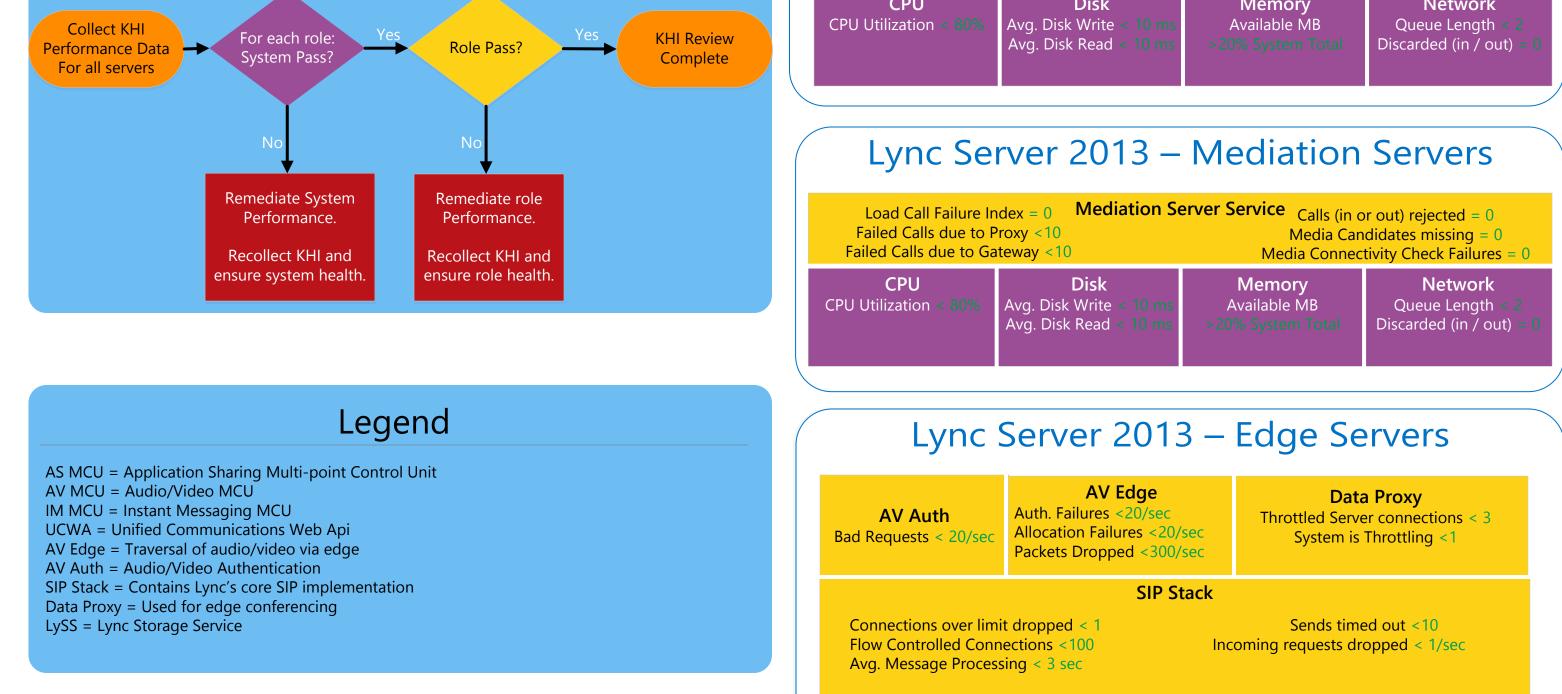
4. After using Performance Monitor to fill in the KHI spreadsheet included with the Lync Server Networking Guide download, compare the results to the recommended targets.

AS/AV/IM MCU MCU Health State <2	Web ComponentsDistribution List expansion AD timeouts <0ABWQ failures = 0LIS failures = 0Authentication Errors < 1/secASP.NET v4 Requests Rejected = 0			
Avg. Incoming Message Processing < 1 sec Incoming Responses Dropped < 1/sec Incoming Requests Dropped < 1/sec Queue Latency < 100 ms Sproc Latency < 100 ms Throttled Requests = 0				
% of space used by Storage Service DB < 80 # of replica replication failures = 0 # of data loss event = 0				
SQLPage life expectancy > 300 Sec.Batch requests / sec < 2500				
CPU CPU Utilization < 80%	Disk Avg. Disk Write < 10 ms Avg. Disk Read < 10 ms	Memory Available MB >20% System Total	Network Queue Length < 2 Discarded (in / out) = 0	

Lync Server 2013 – Front-end Servers

Remediation Flow for all Server Roles

For each server in your Lync implementation, begin by verifying that the server's component health and system performance is at or above the desired level. Only after that should you look at the indicators relating to the server's role in the overall Lync implementation.



CPU

CPU Utilization < 80%

Disk

Avg. Disk Write < 10 ms

Avg. Disk Read < 10 ms

Memory

Available MB

Lync Server 2013 – Backend SQL Servers

SQL					
Page life expectancy > 300 Sec.Batch requests / sec < 2500					
CPU CPU Utilization < 80%	Disk Avg. Disk Write < 10 ms Avg. Disk Read < 10 ms		Network Queue Length < 2 Discarded (in / out) = 0		

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Network

Queue Length < 2

Discarded (in / out) = 0