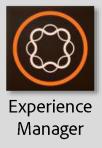


Adobe Experience Manager Best Practices for AEM Assets



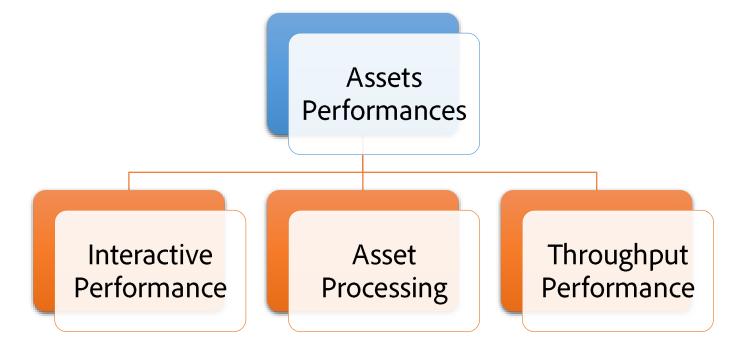
The Made Shop



Agenda

- Asset Performance
- Workflow Offloading
- Assets Sizing
- Content Fragment
- Smart Tags
- Link Sharing
- Dynamic Media
- Q&A

- Interactive performance is the time it takes from receiving the HTTP request to closing the HTTP response,
- An Asset processing issue is when users are uploading assets and it takes minutes until assets are readily converted and ingested into AEM Assets
- Throughput issue is when downloading from AEM Assets takes long and thumbnails do not show up immediately when browsing the DAM Admin or the DAM Finder.



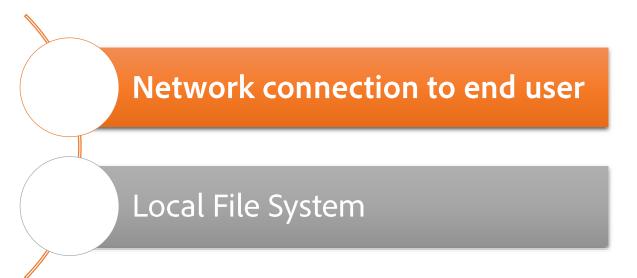


- A slow network connection can cause throughput issues .
- Sometimes the users have a slow connection from the ISP, especially in intranets . This can be a sign of incorrect network topology
- So a network topology review may help in such situation.

Network connection to end user

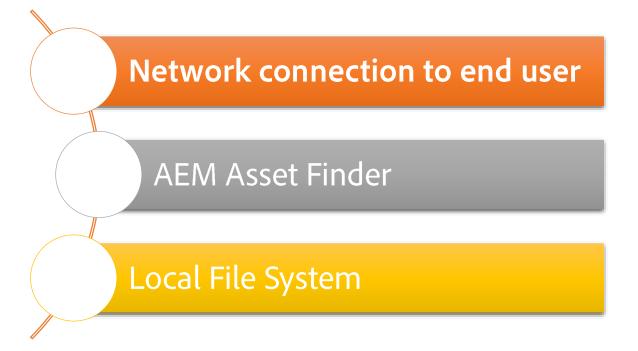


A slow local file system can cause interactive performance problems, especially when it comes to search, because the search indexes are stored on the local disk.



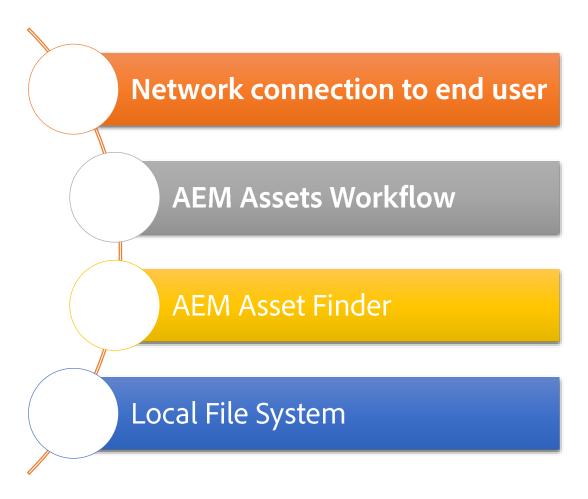


- Interactive performance problems are often experienced in searches that are caused by high CPU utilization due to many concurrent users or other CPU-consuming processes on the same instance.
- Moving from virtual machines to dedicated machines and making sure no other services run on the machine can help improving performance.
- If high CPU load is caused due to asset processing and many concurrent users, Adobe recommends adding additional nodes in such scenarios..



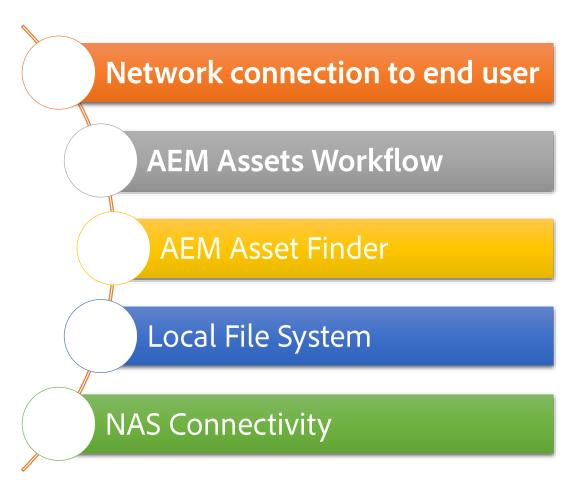


- Long-running workflow processes during asset ingestion cause asset processing performance problems.
- Depending on the type of assets being processed, this can indicate CPU over-utilization.
- Adobe recommends that you reduce the number of other processes running on the system and to increase the number of available CPUs by adding cluster nodes





- Poor network connectivity to the network attached storage causes interactive performance problems, because accessing new nodes during asset processing is slowed down due to network latency.
- Additionally, slow network throughput adversely affects throughput, but also asset processing performance, because loading and saving renditions is slowed down.
- Reasons for bad latency and throughput in a NAS are usually network topology or NAS overutilization by other services.



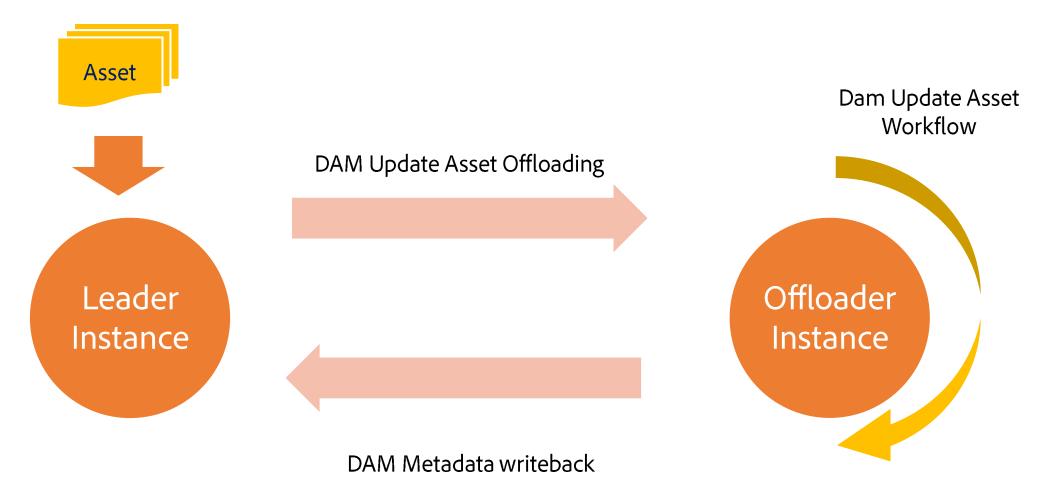


- Enable HTTPS to get around any corporate HTTP traffic sniffers
- Deploy on Java 8.
- Set optimal JVM parameters.
- Customize DAM update Asset workflow
 - Transient Workflow
 - Selective Rendition Generation
- Disabling XMP Write back (if not required)
- Configure a File system DataStore or an S3 DataStore
- Configure workflow and version purging.

- -XX:+UseConcMarkSweepGC
- -Doak.queryLimitInMemory=500000
- -Doak.queryLimitReads=100000
- -Dupdate.limit=250000
- -Doak.fastQuerySize=true



Asset workflow offloading





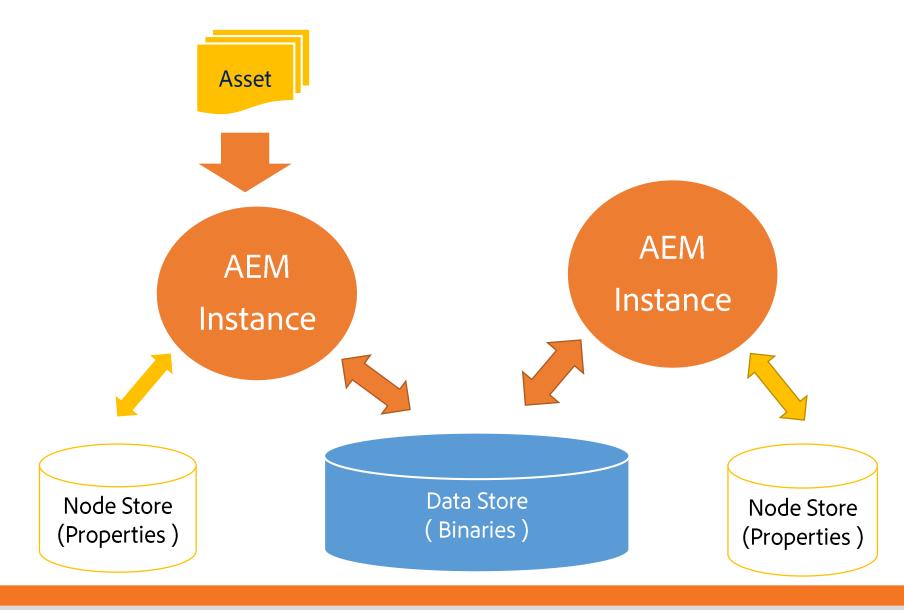
Asset workflow offloading

- Configure offloader instance to point to join topology.
- Configure leader instance to accept connection from offloader instance.
- Disable offloading topic from leader instance.
- Configure leader instance to offload assets via workflow.
- Disable offloader to instance to run dam update asset workflow.



Assets Sizing

- Sizing Repository
- Shared Data stores
- Maximum Number of Assets
- Size of Assets





Content Fragment

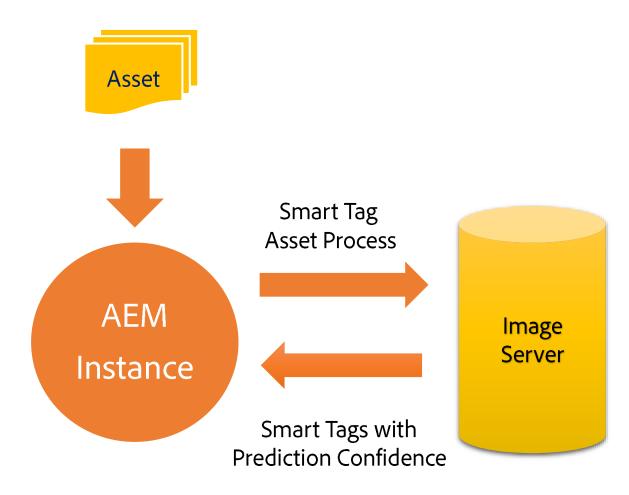
- Content Fragments allow you to design, create, curate and use page-independent content.
- They allow you to create channel-neutral content, together with (possibly channel-specific) variations.
- The full functionality of Content Fragment Management is only available with the touch-optimized UI.





Smart Tagging

- New machine learning based Smart Tags feature to automatically tag and discover digital assets
- Tag images automatically as they come into the system
- Bulk Tag existing images in the repository
- Inspect machine generated tags available on asset properties page
- Leverage Smart Tags to find, repurpose images that were never tagged manually





Link Sharing

- Link Share feature for URL based ad-hoc sharing of digital assets
- Share folders and collections easily and securely using user email ID
- Users can view and download shared assets
- without a need to login
- URL expiration dates can be controlled and
- managed





Dynamic Media

- Dynamic imaging
- Responsive and interactive viewers
- Shoppable media
- Multiscreen experiences
- Dynamic banners



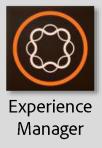












Summary

- Asset Performance
- Workflow Offloading
- Assets Sizing
- Content Fragment
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Thank you!

