

CASE STUDIES

OFFSHORE PERFORMANCE TESTING – OTT SOCIAL MEDIA APP



Application Overview

- ❑ OTT mobile app with chatting, group video & social networking capabilities, enabled for enterprise social connect.
- ❑ Has both web and mobile based apps.
- ❑ Users can share both live and deferred steaming from YouTube and camera apps.

Scope

- ❑ Establish performance benchmarks to compare against new releases.
- ❑ API (Rest Web Services), UI, Streaming content, Mobile (iPad/Android) applications performance testing.
- ❑ Performance testing of applications from different network conditions..
- ❑ Monitoring the application and server resource utilization and reporting bottlenecks.

Tools Used



Neo Load

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Approach

- ❑ Analyze Performance Testing Requirements for all the functionalities.
- ❑ Discuss with various stakeholders (multi-Vendor) and develop Performance Test artifacts.
- ❑ Develop Test Scripts using NeoLoad for media streaming functionalities.
- ❑ Develop script using Jmeter for Web (HTTP/HTML), Webservices & Mobile apps.
- ❑ Setup monitors for identifying the bottlenecks.
- ❑ Create and Execute different tests for up to 500 concurrent users.

- ❑ Execute tests from different network conditions.
- ❑ Analyze the results, identify bottlenecks, provide recommendation and Publish Test Report.

Observations & Findings

- ❑ As the load increased, response times drastically increased. At the same time, APP Server CPU utilization was reaching 100%, resulting in breakdown of the systems.
- ❑ Monitored counters like Bit Rate, Buffer Fill, Lag length, Play Length, Lag Ratio for streaming contents.
- ❑ Monitored counters like dead lock, Memory, disk space in servers.
- ❑ Identified log files was full and due to space issue the respective node was down.
- ❑ Deadlocks were observed while uploading files and Increased cache's for group synchronous streaming.

Results

- ❑ After fixing the Node issues and Log issues, application was able to handle the required load.
- ❑ All the SLA's were within acceptable limit with Utilization < 47%.