

SKILLS 101



SharePlex AI Insights

AI-Driven Observability & Troubleshooting



Webinar Date: May 28, 2026 | 11:00 AM ET

Speaker: Bilel Sfaxi, Solutions Architect

The Presenter



Entrepreneur, engineer, passionate, tech enthusiast, with more than 20 years of experience working in IT for various international software vendors, and in daily contact with new technologies (such as AI recently).

A bit of a geek at heart and fascinated by Japanese culture!



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Session Agenda

1

Introduction & Context — SharePlex replication challenges in the field

2

What is SharePlex AI Insights? — Architecture, components, and deployment model

3

Core Capabilities Deep Dive — Replication Overview · AI Analyzer · Assistant Chatbox

4

Live Demo — End-to-end walkthrough on a live SharePlex environment

5

Installation & Requirements — Docker Compose, system specs, security, licensing

6

Q&A & Next Steps — Resources and how to get started

The Problem: Why SharePlex Admins Need AI

Slow Learning Curve

SharePlex has a deep and a very comprehensive CLI/config interface. Junior Admins take long time to become productive.

Requires Multiple Levels Diagnostics

Trace logs and sp_ctrl output are generally self-explanatory. However, root cause analysis requires sometimes expert knowledge.

Slow MTTD/MTTR

Detecting capture bottlenecks, post latency, or OOS events manually is slow and reactive.

“

Diagnosing SharePlex issues can be difficult, especially if you are not an expert. Can't you use your understanding of SharePlex plus AI to help diagnose and identify solutions to replication problems?

— Enterprise SharePlex Customer

What is SharePlex AI Insights?

An AI-powered observability and advisory platform that analyzes SharePlex replication processes in real time, providing actionable insights, tuning recommendations, and operational guidance.

01

Replication Dashboard

At-a-glance visibility: stream status, process health, latency, and configuration — all in one place.

02

AI Performance Analyzer

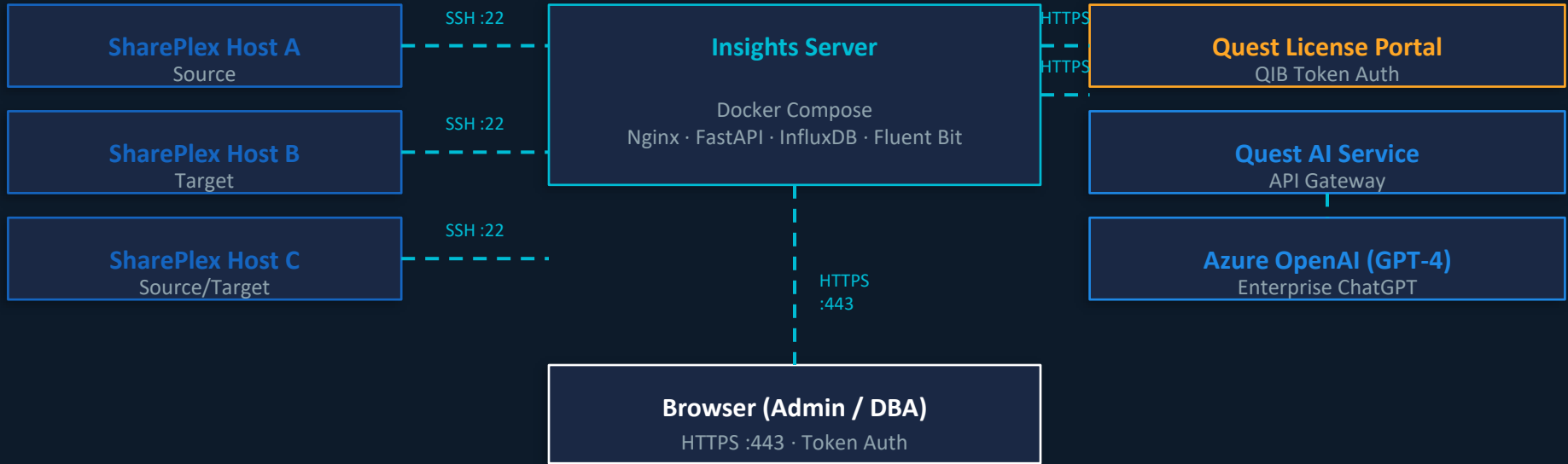
Automatically parses trace logs & system metrics to detect Capture/Post bottlenecks and recommend tuning parameters.

03

AI Assistant Chatbox

Natural language interface backed by GPT-4. Context-aware responses about your live replication environment.

Architecture Overview



1. No data leaves the customer network except anonymized AI prompts
2. SSH used to pull sp_ctrl stats & trace logs from SharePlex hosts
3. Internet required for AI and License Portal calls

Deployment & System Requirements

Deployment Model

- ▶ Fully containerized via Docker Compose
- ▶ One-command startup: `docker compose up`
- ▶ Works locally or in cloud environments
- ▶ Host OS: Linux RHEL 8+ (verified)
- ▶ Docker + Compose 28.5+ required on host

Hardware Requirements

Resource	POC / Testing	Production
CPU	2–4 vCPU	4–8+ vCPU
Memory	8 GB RAM	16–32 GB RAM
Disk	750 MB	750 MB+
Network	Low latency to SP hosts	Low latency to SP hosts

Auto-Installed Container Stack

Node.js 18+

Python 3.12+

SQLite 3.26+

Gunicorn 23.0

Uvicorn Worker

Nginx (Alpine)

Fluent Bit v3.2.10

InfluxDB 3 Core 3.9.1

Link: <https://support.quest.com/technical-documents/shareplex-ai-insights/1.0/installation-and-setup-guide/>

Feature 01 · Replication Dashboard

AT-A-GLANCE



SharePlex Insights
beta_v1

Replication Overview

Monitoring Setup

AI Engine Ready



All Instances

Add Stream

Replication Streams

Group by Instance: All Statuses Search

Stream Name ↓	Latency (sec) ↓	Status ↓
Oracle_finance_db-psrhel7spatil01	N/A	Running
postgres_CRM_db_backup-pg_bench	12983	Running
postgres_CRM_db_backup-psoel7bdummana01	N/A	Running
Oracle_to_Kafka_stream-psoel7mmohan01	N/A	Failed

Replication Overview

Replication Status **AI Analysis** Process Metrics

Process: Post (r.demo-r.demo) - 402913

Running...

Fetching trace for the Post will take about 1 minute ...
Getting process metrics for analysis
Process metrics fetched for analysis
Waiting for trace log generation... 57 seconds remaining

Save as PDF

** Post state "WARNING" indicates queue depth approaching threshold — a candidate for AI Performance Analyzer*

- ▶ Process status from sp_ctrl (Capture, Read, Export, Import, Post)
- ▶ Latency, ops/sec, queue depth per stream
- ▶ SharePlex configuration and host metadata



Feature 02 · AI Performance Analyzer



Collect

SSH into SharePlex hosts
Pull sp_ctrl stats & trace logs



Analyze

AI parses bottleneck patterns
in Capture & Post processes



Recommend

Suggest SP_OCT_TRACING,
buffer sizes, tuning params



Explain

Natural language summary
with root cause context

Detectable Bottleneck Patterns

Capture Slowdown

High redo log scan latency, LCR queue fill, SP_OCT_TRACING overhead

Post Throughput Drop

Commit rate lag, target DB response time, conflict detection overhead

Memory Pressure

sp_mport buffer exhaustion, large transaction chunking issues

Export/Import Delays

Network throughput bottleneck, queue overflow indicators

Feature 03 · AI Assistant Chatbox

SharePlex Assistant •

Why is my Post process lagging behind Capture on stream ora_to_pg2?

Based on your current metrics, the Post process on pg-rpl-03 is processing ~980 ops/sec vs Capture at 2,450 ops/sec. The queue depth of 1,204 suggests a target-side bottleneck. I recommend checking:

1. Network latency to pg-rpl-03
2. Increase SP_POST_THREADS to 4
3. Review auto-commit interval settings

How do I check the SP_OCT_TRACING level?

```
Run: sp_ctrl> show param SP_OCT_TRACING
Default is 0. Setting to 1 enables verbose Capture
tracing. Note: this increases log volume.
```

Capabilities

Context-Aware

Reads your live sp_ctrl metrics before answering

Command Guidance

Explains sp_ctrl commands, params, and tuning

Error Diagnosis

Interprets SharePlex error codes and log messages

Best Practices

Quest-curated knowledge base + GPT-4 reasoning

Multi-Stream

⚠ Enterprise GPT-4 — no data training on your prompts

Security, Licensing & Access

Authentication

- ✓ Authenticates against SharePlex OS user credentials
- ✓ Token-based API authentication (JWT)
- ✓ Licensing validated via Quest License Portal (QIB token)
- ✓ No plaintext credentials stored

Network Security

- ✓ HTTPS :443 for all browser access
- ✓ SSH :22 for SharePlex host communication
- ✓ Internet required for AI service & license portal
- ✓ All AI prompts routed via Quest AI Gateway — not raw OpenAI

Access Requirements

- ✓ Read + execute on SharePlex install and var directory
- ✓ SSH access to all monitored SharePlex hosts
- ✓ sp_ctrl read access (non-privileged OS user is sufficient)
- ✓ No write access to SharePlex config required

⚠ AI prompts include SharePlex metrics & log excerpts — review your data residency policy before deployment in regulated environments.

LIVE DEMO

5 – 10 minutes

1. Access Insights dashboard — verify stream health
2. Trigger AI Performance Analyzer on a trace log
3. Review recommendations and tuning parameters
4. Query the AI Chatbox — live Q&A with environment context

How to Get Started

01

Verify Prerequisites

RHEL 8+ host · Docker + Compose 28.5+ · SSH access to SharePlex hosts · Quest license

02

Download & Install

Download from Quest Support Portal · Run: `docker compose up` · Validate at `https://<HOST>:443`

03

Configure SSH Keys

Add SharePlex host SSH public keys · Grant `sp_ctrl` read access to the Insights OS user

04

Add SharePlex Hosts

In the UI: Settings → Add Host · Provide hostname, SharePlex install path, var directory

05

Run Your First Analysis

Open the Dashboard · Click AI Performance Analyzer on any stream · Review recommendations

Resources & Next Steps

Release Notes

Version history, known issues, compatibility matrix

support.quest.com/shareplex-ai-insights

Installation Guide

Docker Compose setup, SSH config, host registration

support.quest.com/shareplex-ai-insights

Skills 101 Webinar

Recordings and upcoming sessions — SharePlex series

www.quest.com/data-management-skills-training/shareplex-skills-101-series.aspx

Quest Support Portal

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Q&A — Presenter

Bilel Sfaxi
Solutions Architect · Quest Software

Submit questions via the chat →

Live Q&A | 5 minutes

Don't Miss What's Next!

SharePlex in Docker

*Deploy Once, Run Anywhere,
Scale on Demand*

October 29th @ 11:00a.m. ET



 Quest

The Quest logo features a stylized blue icon of a person with arms raised, followed by the word "Quest" in a bold, dark blue sans-serif font.

Thank You!