

Infrastructure Intelligence for Sovereign Banking Modernization

Customer: Middle East Financial Regulatory Authority

Industry: Financial Services & Regulatory | **Region:** Middle East



CUSTOMER BACKGROUND

As the region's central financial regulatory authority, the customer oversees monetary stability, financial sector supervision, and national banking infrastructure. Operating a mission-critical, highly secure IT environment, the institution required complete infrastructure visibility across its enterprise server estate to evaluate OS feasibility and build a migration roadmap to a sovereign OpenStack cloud platform while strictly maintaining offline, bank-grade security protocols.



PROJECT OVERVIEW

The project required a deep, offline infrastructure assessment and target cloud readiness analysis across 1,500+ Windows and Linux servers. Operating under strict zero-trust security constraints, Corent deployed MaaS in a fully disconnected environment, using an agent-based framework to perform subnet discovery, collect native Linux raw command output, map process-level connections, and size OpenStack flavors.



KEY CHALLENGES

Strict Bank-Grade Security Limits

Operating under zero-trust, offline network isolation policies that prevented standard online or external discovery mechanisms.

Deep Linux Visibility Requirements

Capturing detailed OS, configuration, and runtime metrics across complex Linux distributions via raw command execution.

Executive-Ready Reporting Requirements

Generating infrastructure reports focused on OS feasibility, TCO analysis, and end-of-life insights for transformation planning.

Asset Noise & Subnet Pollution

Filtering out non-server IPs and peripheral device noise across active subnets to isolate core infrastructure assets.

OpenStack Flavor Sizing Uncertainty

Mapping legacy on-premises workloads accurately to target OpenStack compute and storage flavors without performance degradation.

Dependency & Move-Group Risks

Uncovering intricate application interdependencies and connection strengths to sequence cloud migration waves without causing financial service disruptions.





SOLUTION APPROACH



Secure Offline Agent Deployment

Deployed built-in Corent MaaS agents across 1,500+ servers in an isolated, offline environment without requiring additional open network ports.



Native Linux Command Execution

Utilized a custom raw command collection framework to extract deep Linux configuration, memory utilization, and kernel-level metrics.



Intelligent Subnet Filtering

Applied automated asset classification algorithms to separate core server workloads from non-server network devices.



Communication Port Analysis

Executed process-aware dependency mapping to measure active connection strengths and group interconnected systems into logical move-groups.



Dynamic OpenStack Flavor Sizing

Modeled multi-metric performance data against target OpenStack compute flavors and storage profiles to right-size the future cloud architecture.



Customizable PDF Reporting

Generated stakeholder-ready infrastructure assessment reports covering OS feasibility, TCO analysis, and end-of-life insights.



BUSINESS IMPACT

Corent MaaS successfully delivered complete estate visibility across 1,500+ Windows and Linux servers for the financial regulatory authority while maintaining 100% compliance with strict offline security standards. The platform removed non-server subnet noise, validated OS migration feasibility, mapped process dependencies into risk-free move-groups, and generated precise OpenStack TCO models to accelerate business case sign-off for sovereign cloud modernization.



STRATEGIC VALUE DELIVERED



Bank-Grade Offline Compliance

Executed full estate discovery via offline agent scans, adhering entirely to strict financial security policies.



Granular Linux Visibility

Achieved complete OS, software stack, and inventory accuracy across diverse Linux environments via raw command collection.



Cleaned Server Estate Data

Filtered out peripheral subnet noise to isolate core server assets, ensuring precise migration planning.



Zero-Outage Wave Planning

Sequenced migration move-groups based on connection strength metrics and process interdependencies.



Optimized OpenStack Sizing

Matched historical performance data to dynamic OpenStack flavors, eliminating over-provisioning and reducing target cloud TCO.



Accelerated Executive Sign-Off

Provided data-backed OS feasibility and financial reporting to validate the sovereign cloud transformation strategy.



Assessing Infrastructure Under Strict Offline or Banking Security Limits?

Execute deep server discovery and OpenStack readiness planning without compromising compliance. Schedule an expert walkthrough today!