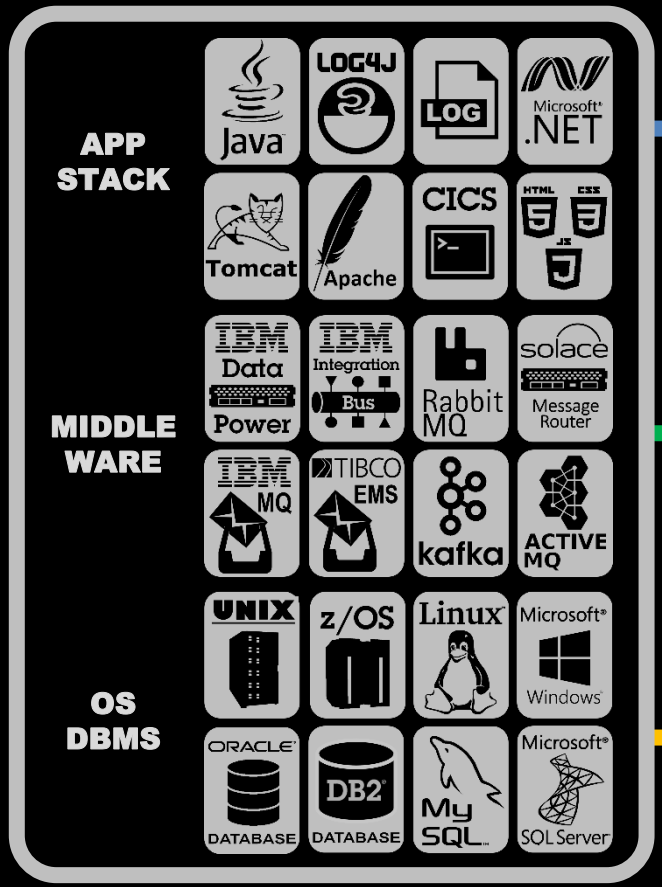
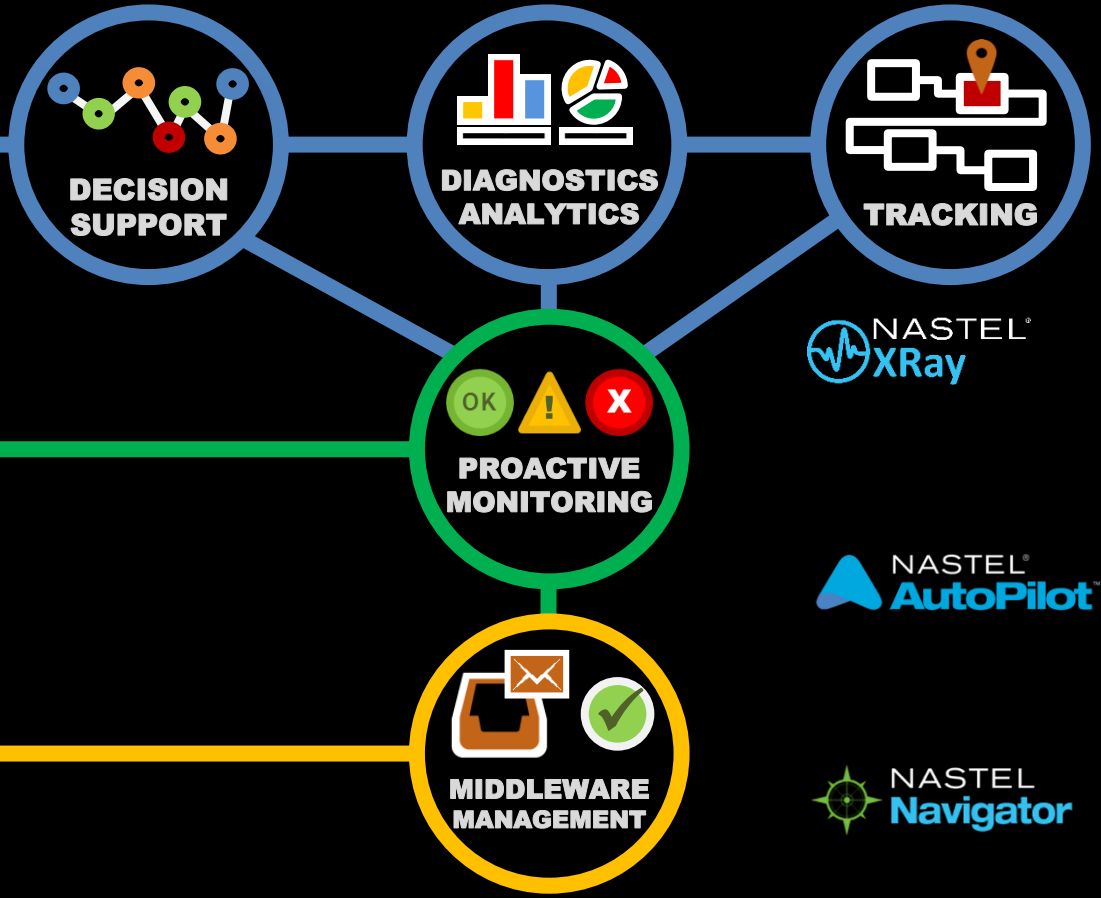
Nastel Overview prepared for

Guide Share France
01 October 2019

Nastel Solution Offering





Nastel Navigator - Middleware Management

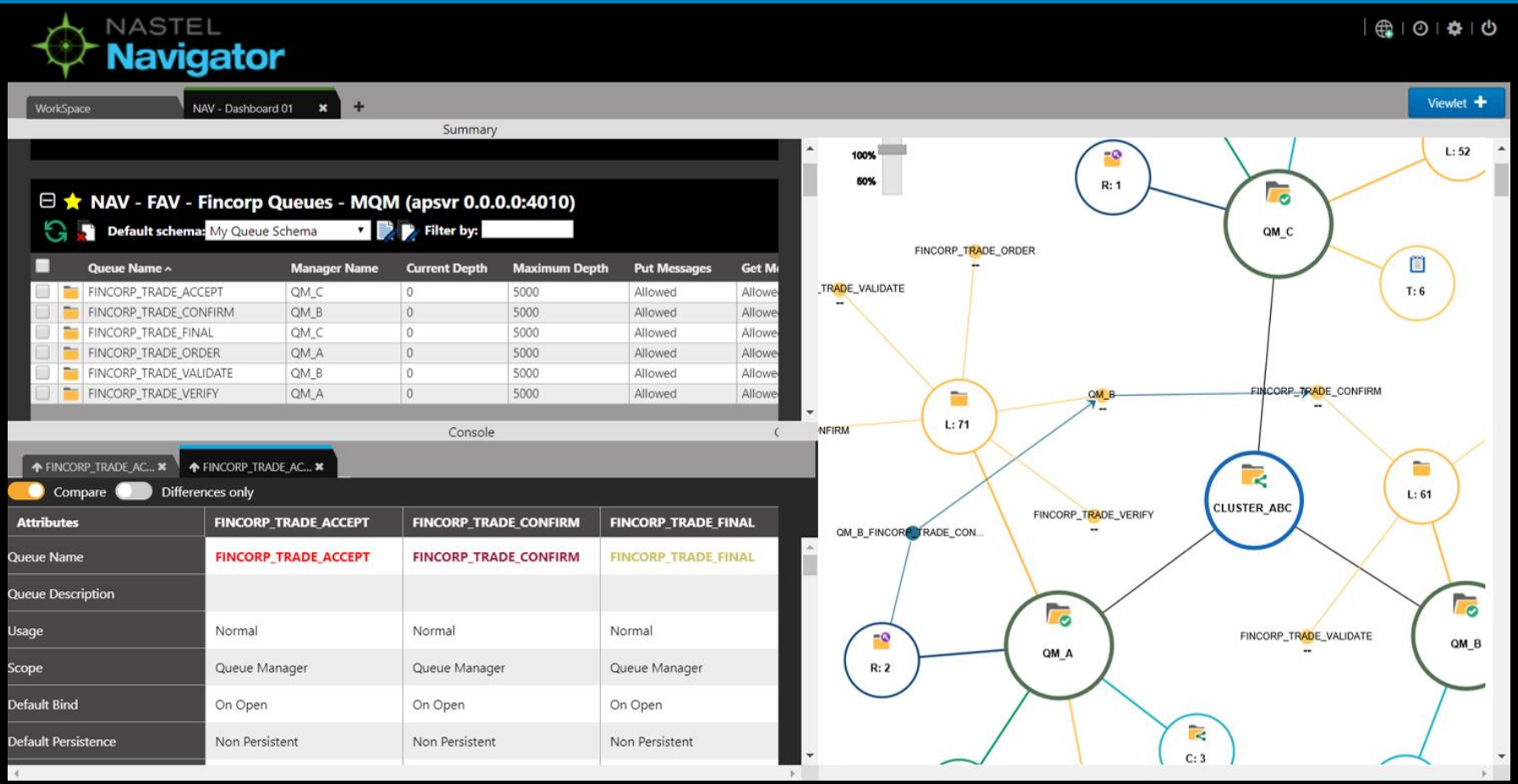
CHALLENGES

- No single point of control for multiple middleware, multiple platforms
- Middleware teams unable to delegate authority to Dev/Ops
- No personalized views of infrastructure
- Application Development teams cannot provision needed middleware objects
- Application Development teams cannot easily test message flows
- Middleware teams challenged by software upgrades & migrations

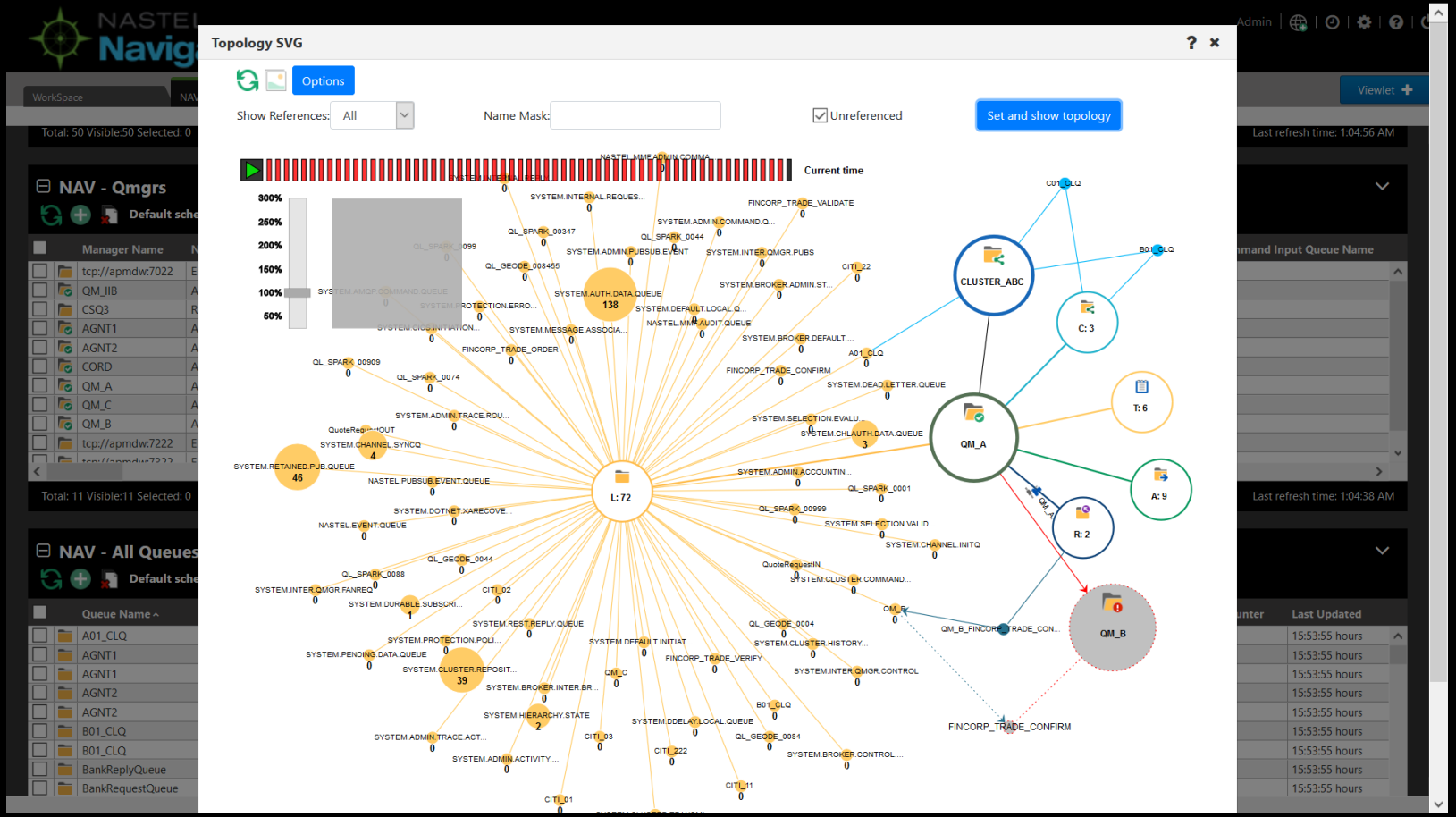
NASTEL SOLUTION

- Automated discovery of middleware estate
- Simplified configuration management
- Easily manage and rollback changes
- Full audit trail of changes (who, what, where)
- Full message management & search
- User group and role management
- Secure, granular delegation of specific authorities to Dev/Ops

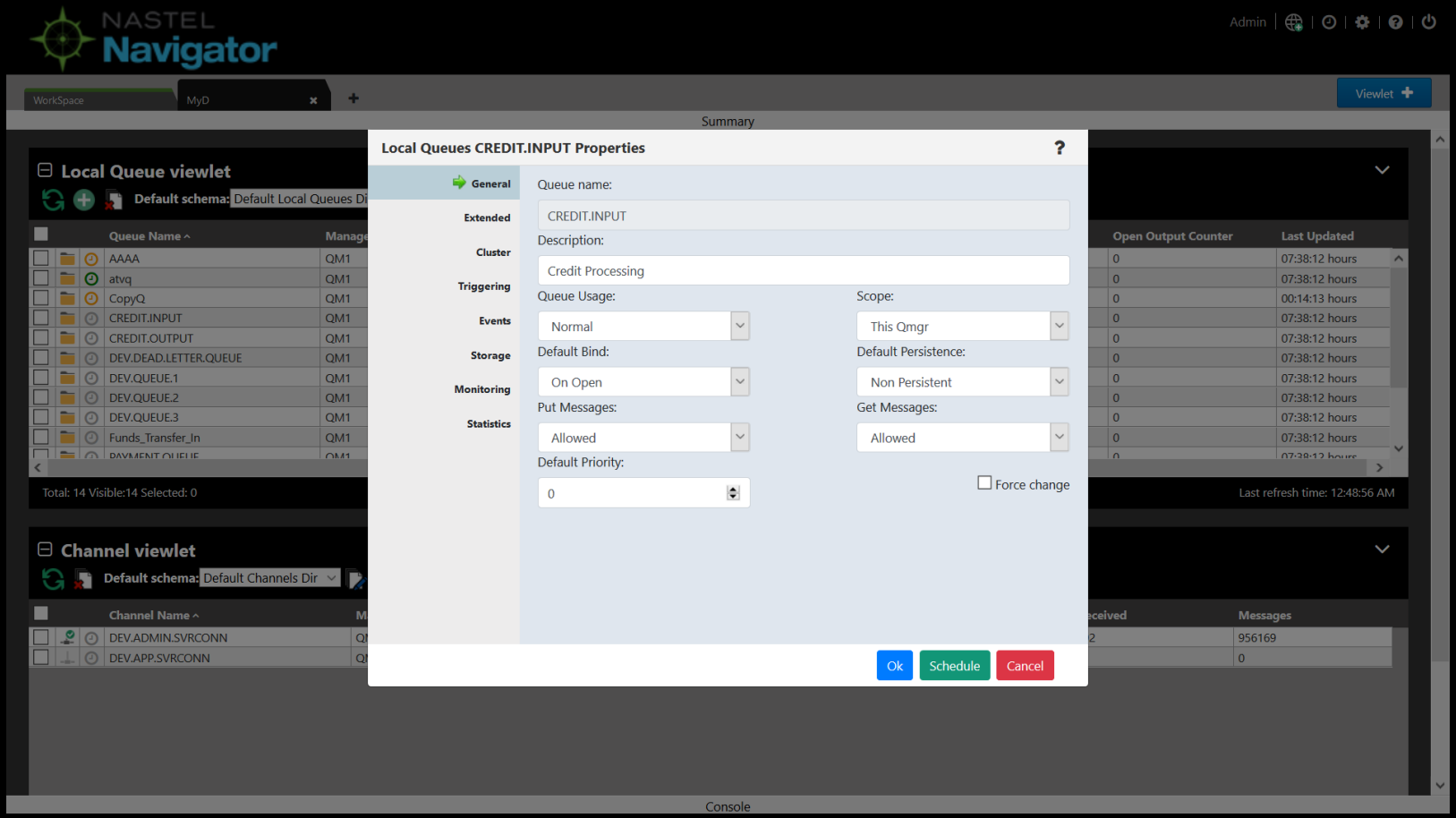
Nastel Navigator – Middleware Management



Nastel Navigator - Topology View of Middleware Estate



Nastel Navigator – Change Management & Scheduling



Nastel AutoPilot - Proactive Monitoring

CHALLENGES

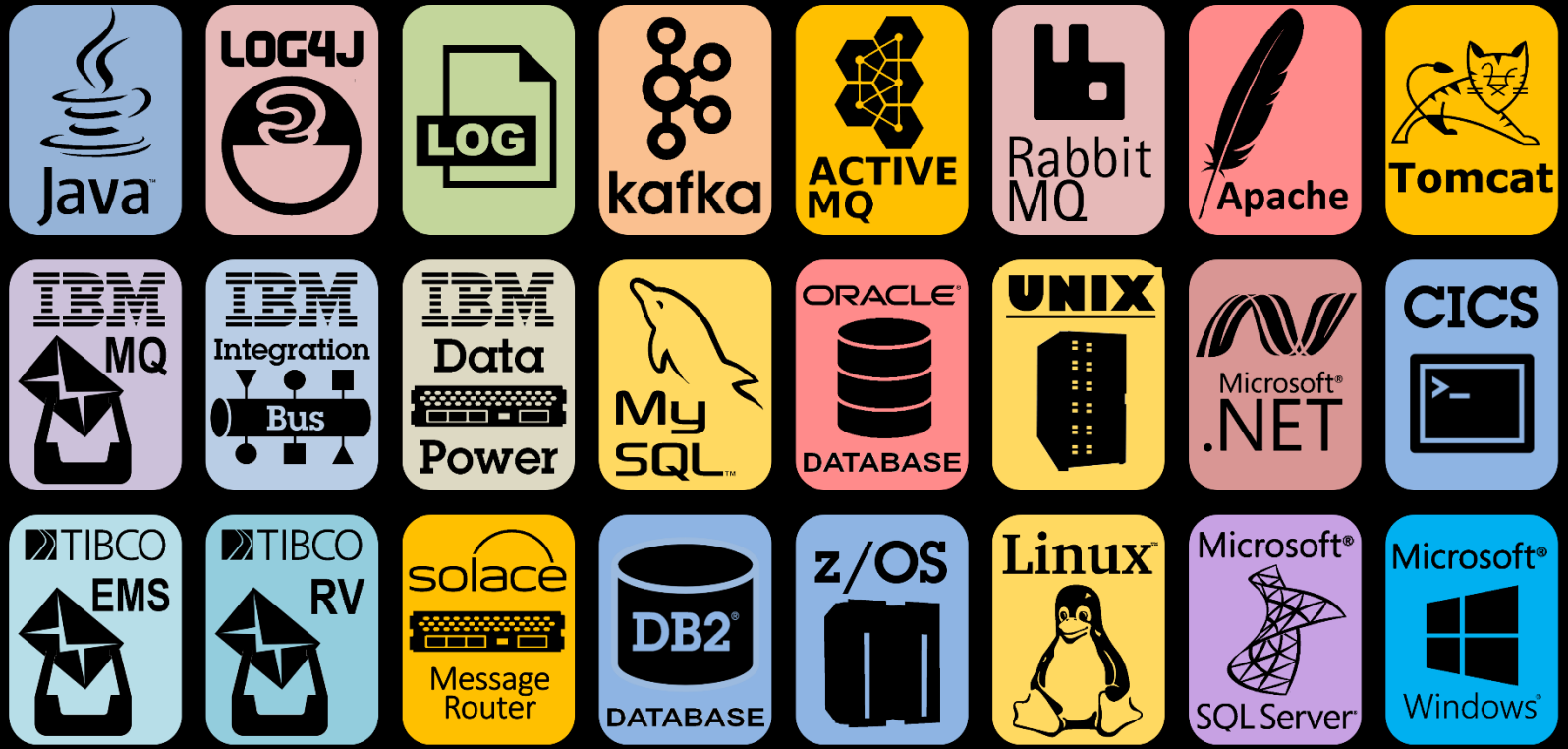
- Unmonitored application assets
- Incomplete views of application estate
- Monitoring via complex scripting
- Inability to see troublesome trends
- Multiple teams using diverse tools
- Difficulty to isolate root cause
- False alerts
- “War-room” syndrome
- Operational and reputational risk

NASTEL SOLUTION

NASTEL® AutoPilot™

- Easily managed, policy-based, real-time monitoring
- Elimination of false alerts
- Trend & pattern detection
- Notifications & proactive alerts
- Improved MTBF, Reduced MTTR
- Automated actions
- Improved application availability & reliability
- Reduction of operational risks

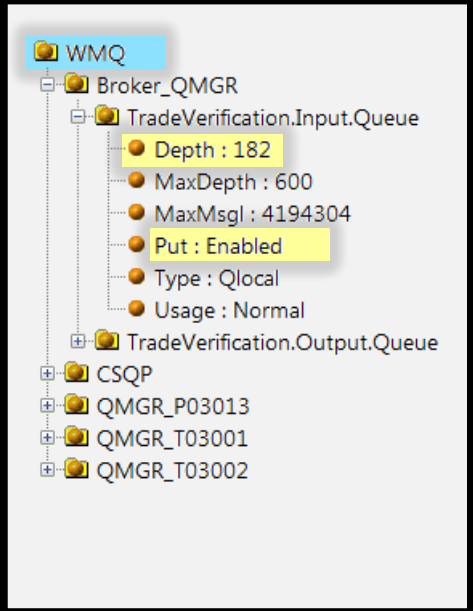
Nastel AutoPilot : Data Collectors

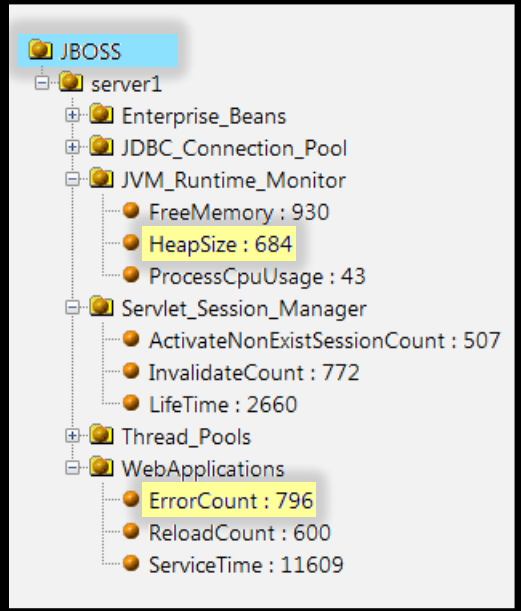


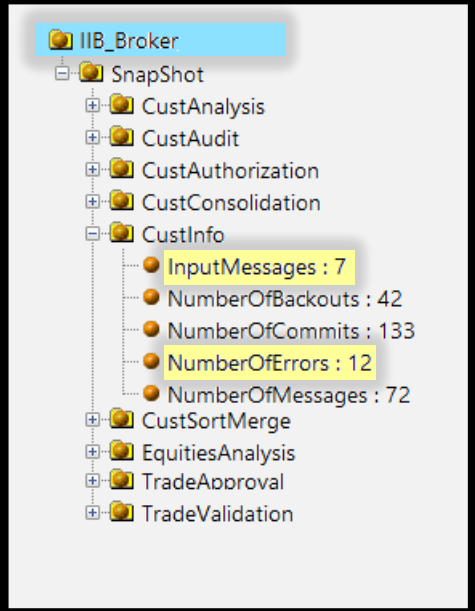
Nastel AutoPilot : Metrics and Events from Multiple Sources

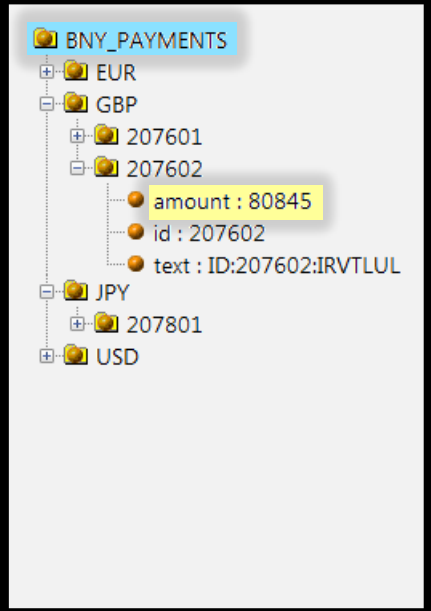
Application Infrastructure Metrics & Events
(Messaging Middleware, Enterprise Application Integration, ESB, Java …)

Application Metrics & Events



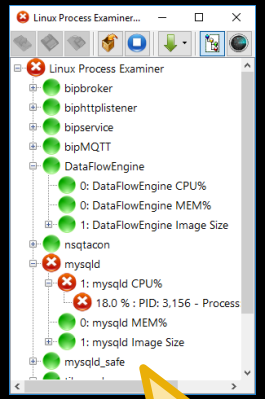




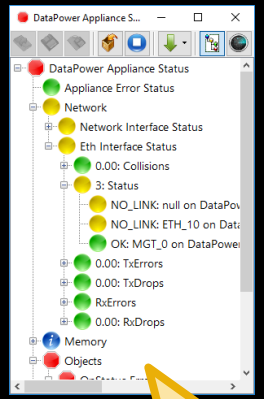


Nastel AutoPilot : Real-time Monitoring and Alerting

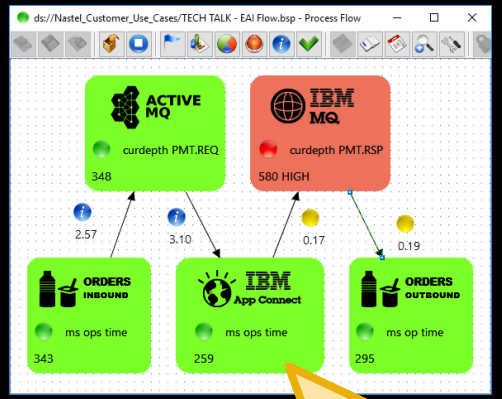
- Policy-based, real-time monitoring for performance events across application infrastructure
- 3 step creation of monitoring policies via a built-in wizard – no complex scripting
- Easily configurable notifications & proactive alerts
- Automated actions based on alert severity – execute external scripts, programs, 3rd party utilities, etc. to automate problem resolution
- Monitoring policies can combine metrics from multiple sources (e.g. middleware, operating system, network, applications)
- Built-in statistical analytics for trend and pattern detection



Linux Process is consuming high CPU

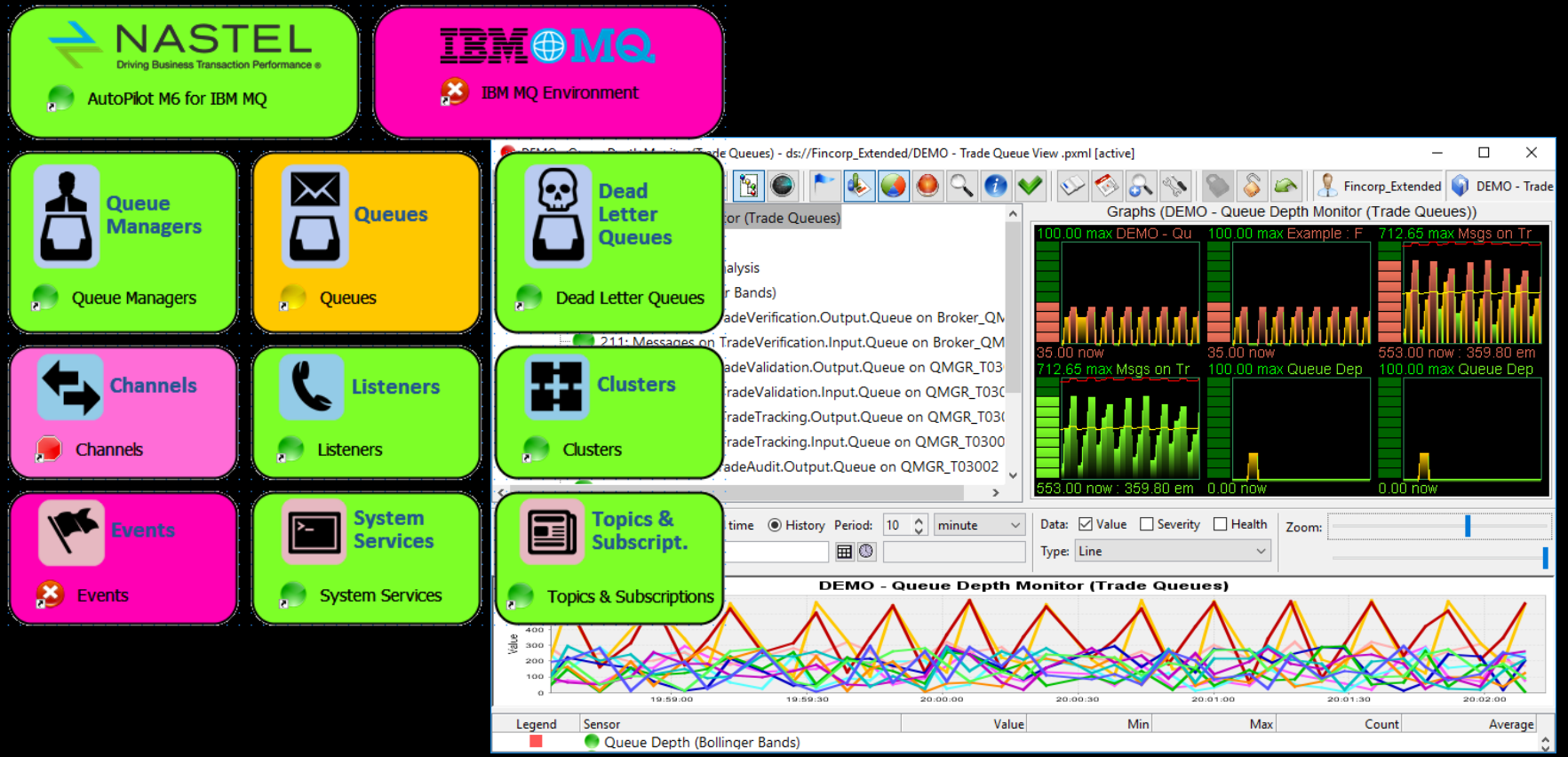


DataPower appliance is off the network

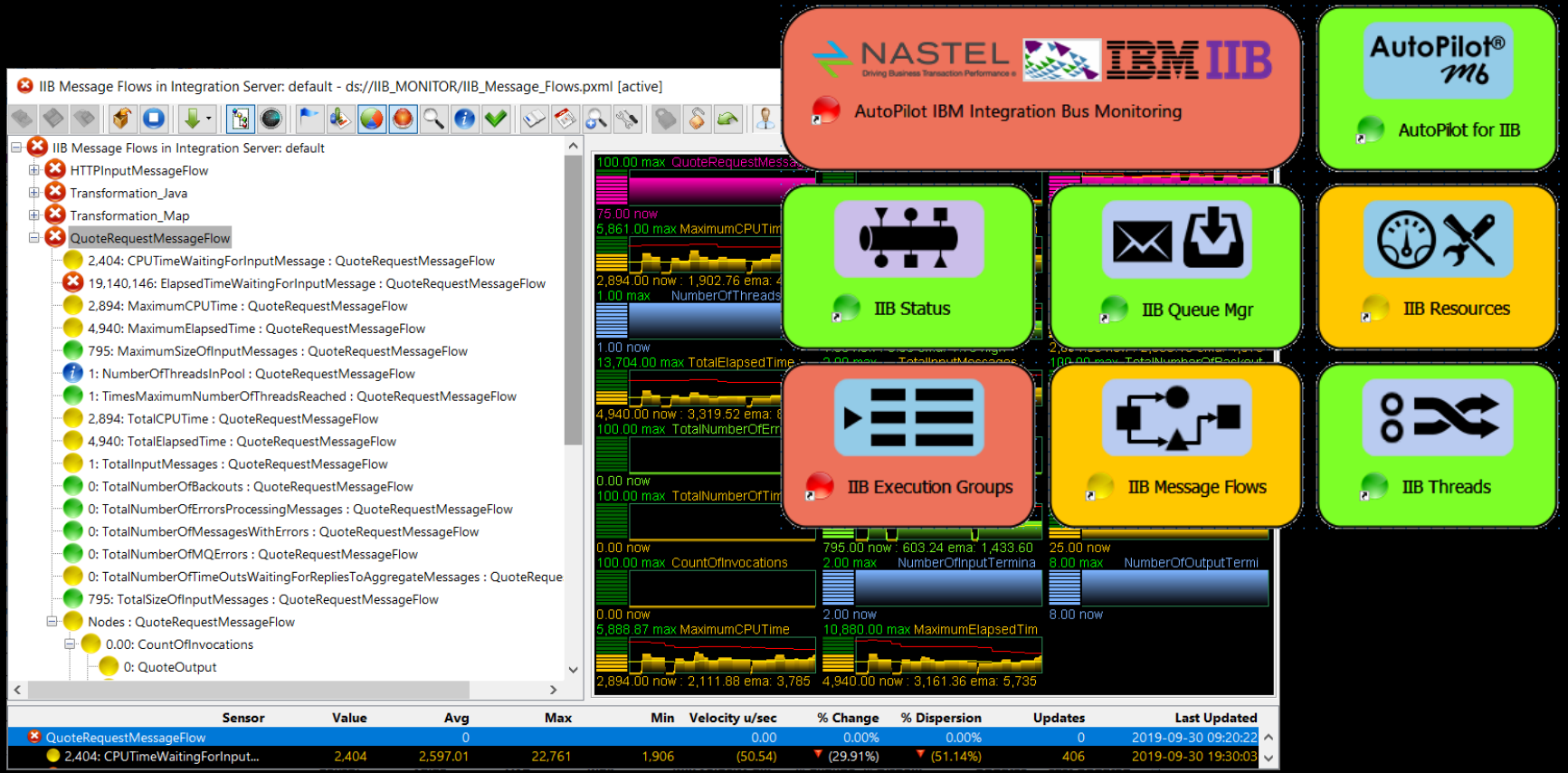


Slowly draining message queue is affecting EAI workflow performance

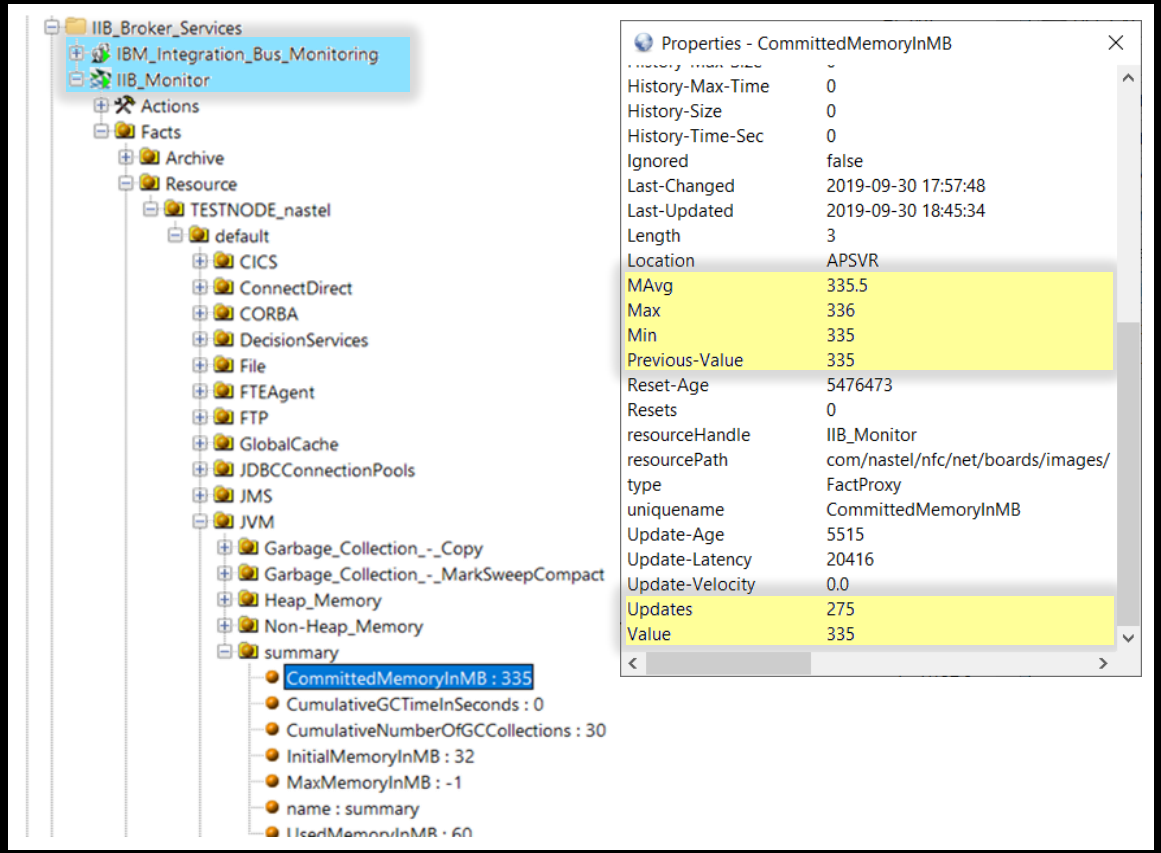
Pre-Built Dashboard : IBM MQ



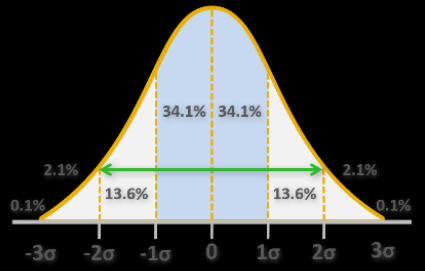
Pre-Built Dashboard : IBM Integration Bus (IBM App Connect)



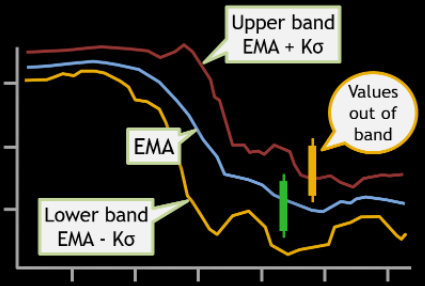
Nastel AutoPilot : Continual Statistical Analytics in Real-time



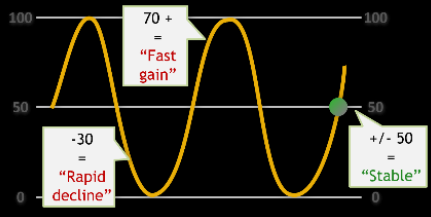
σ_x Std Dev



Bollinger Bands



Relative Strength Index



Nastel XRay : Diagnostics, Analytics & Tracking

CHALLENGES

- Inconsistent transaction performance
- “Missing” orders | invoices | trades …
- No historical data or trend analysis
- Inability to detect anomalies
- No analytics in business context
- Perishable time-series data
- Regulatory compliance obligations
- Service Level Agreements
- Operational risks
- Audit requirements

NASTEL SOLUTION

- Full visibility of business flows: resources, applications, events, timings, topologies
- Isolate root causes, facilitate triage
- Set objectives and manage compliance (SLA’s, regulations)
- View workflow performance in business context
- 360° Situational Awareness

Nastel XRay : User-Customizable Dashboard Views

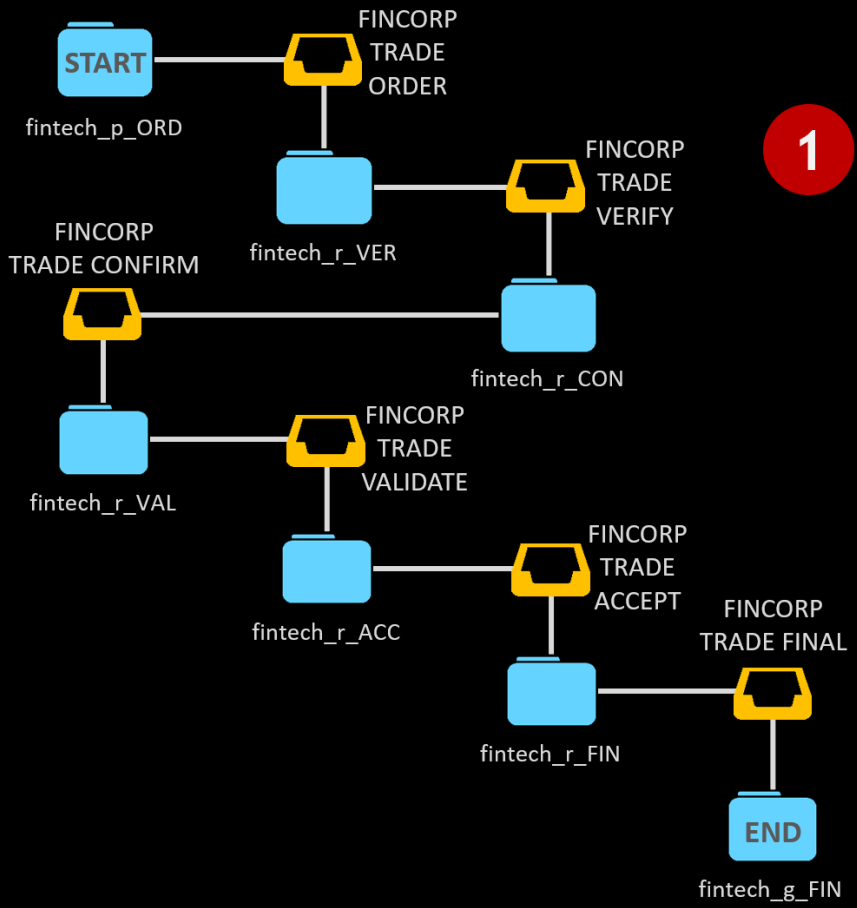
- *NoSQL* Analytical Platform
- *Streaming analytics* for time-series data
- *Intuitive* "English-like" *query language*

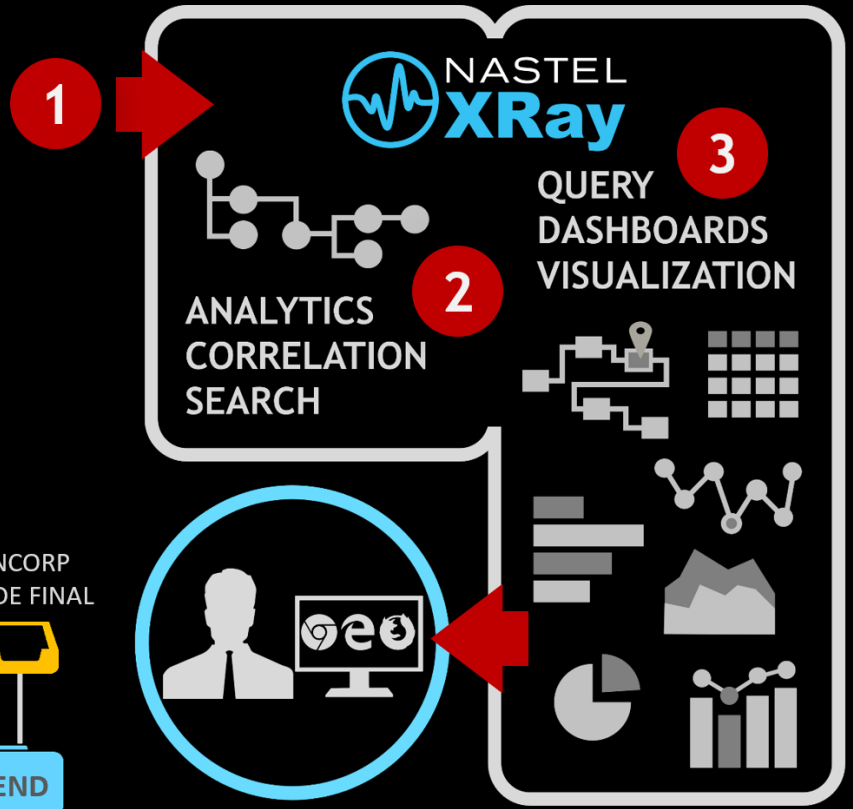
  Get number of events for last hour
  group by Applname, Severity
  show as [scorecard | linechart |…]

- *Viewlets*: web dashboards
- Samples provided for *quick start*

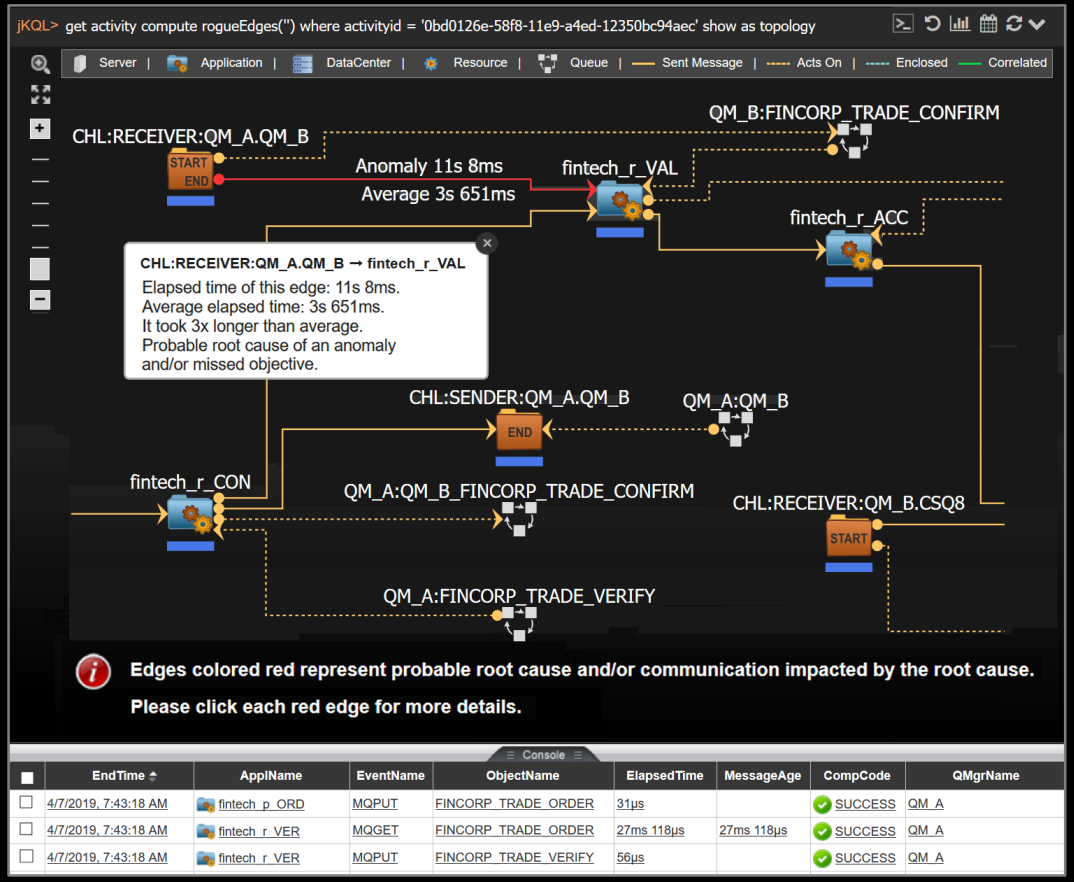
Nastel XRay : Decision Support, Analytics

Nastel XRay : Message Flow Tracing



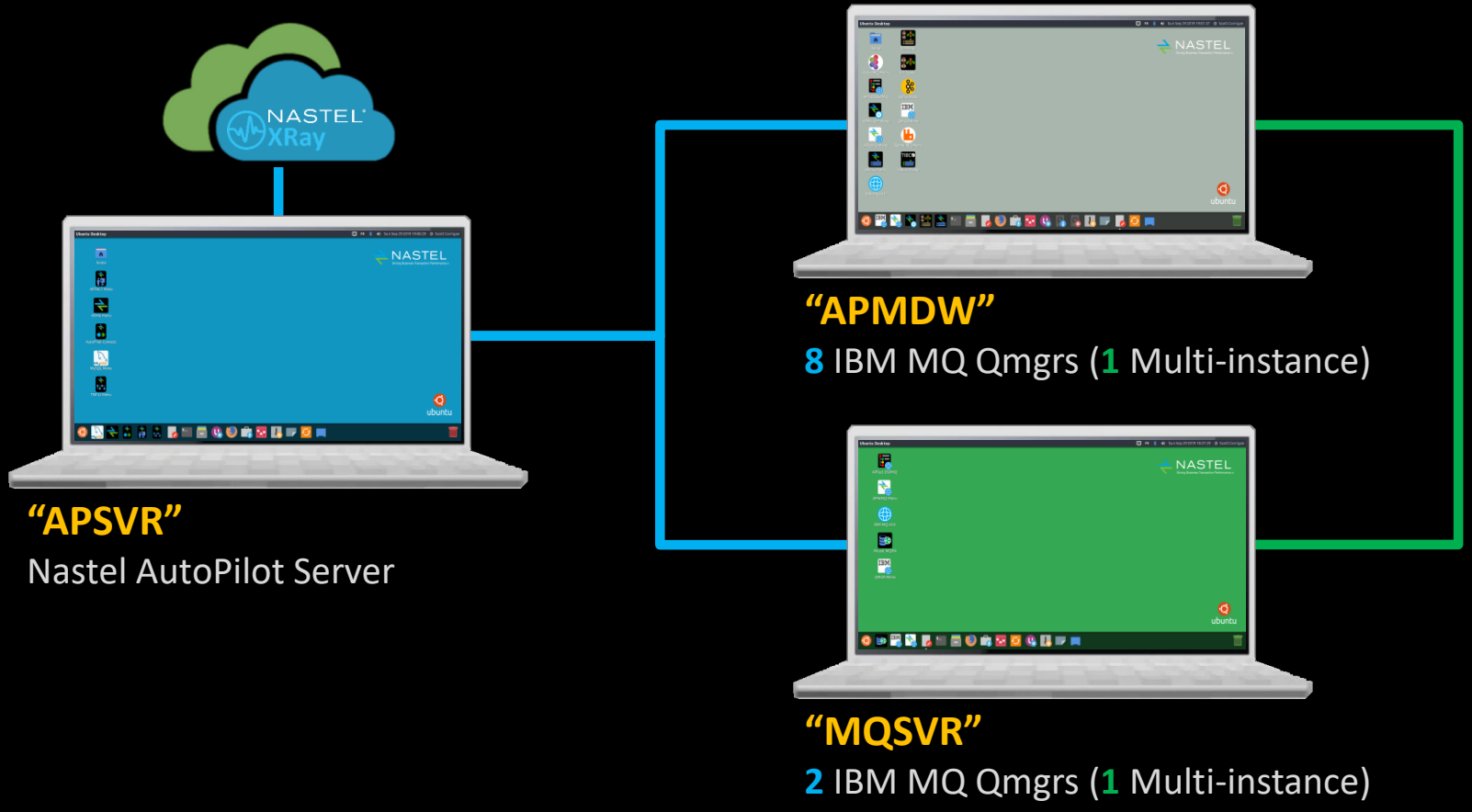


Nastel XRay : Message Workflow Tracing



- Show elapsed time of message workflow from start to end
- Drill down into details of messaging events & timings
- Show elapsed time of each message "hop" (event)
- Identify root cause : events & resources that may have contributed to increased time … CPU … contention
- Learn the topology of MQ message flows
- Detect and alert upon exceptions based on historical data from prior messages flows
- Recognize changes in workflow timings such that a new baseline can be formed

Demo of Nastel Solution Offering : VM Configuration



“APSVR”

Nastel AutoPilot Server

“APMDW”

8 IBM MQ Qmgrs (**1** Multi-instance)

“MQSVR”

2 IBM MQ Qmgrs (**1** Multi-instance)

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Selected Demo Scenarios

NASTEL Navigator

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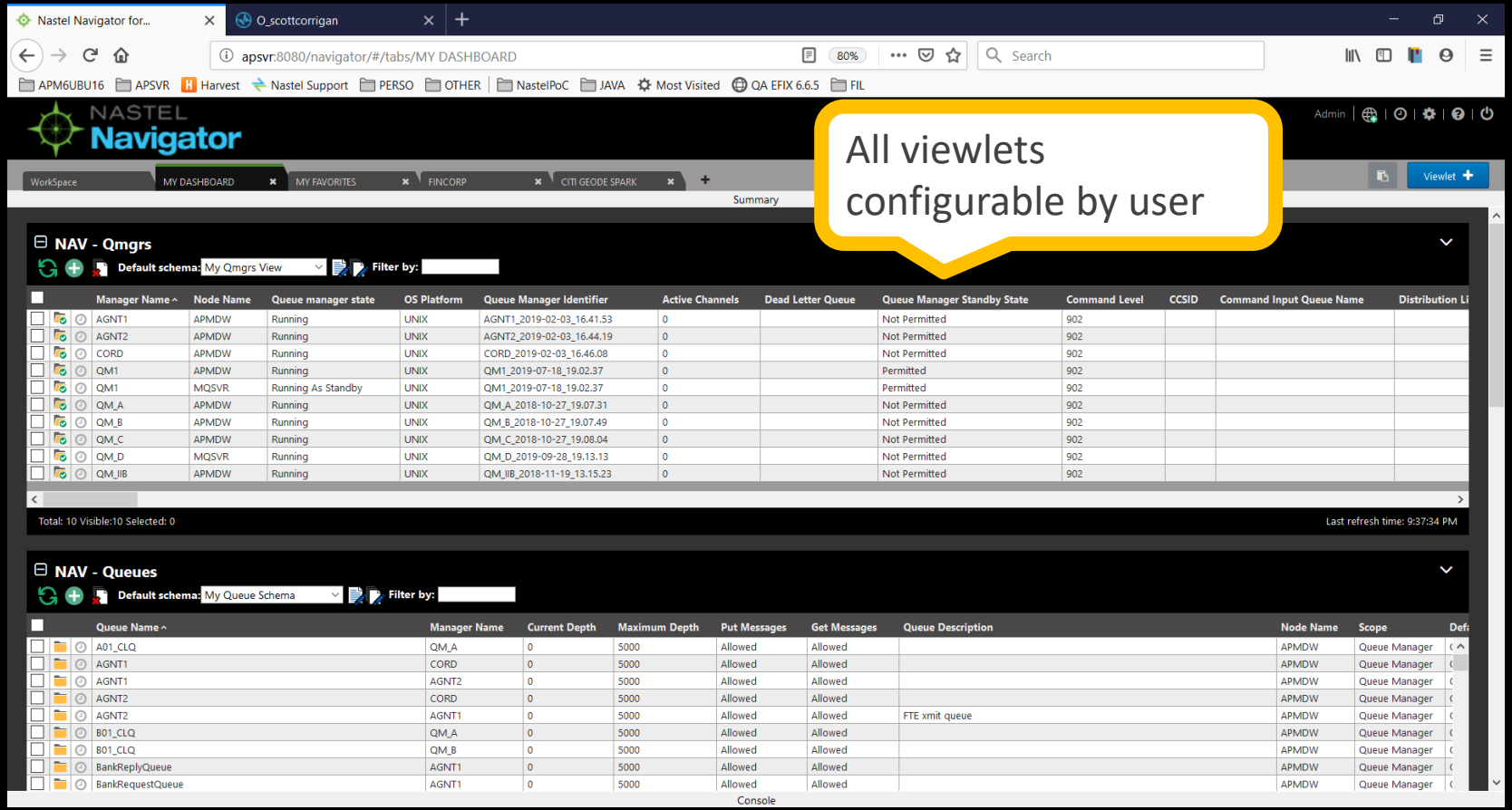
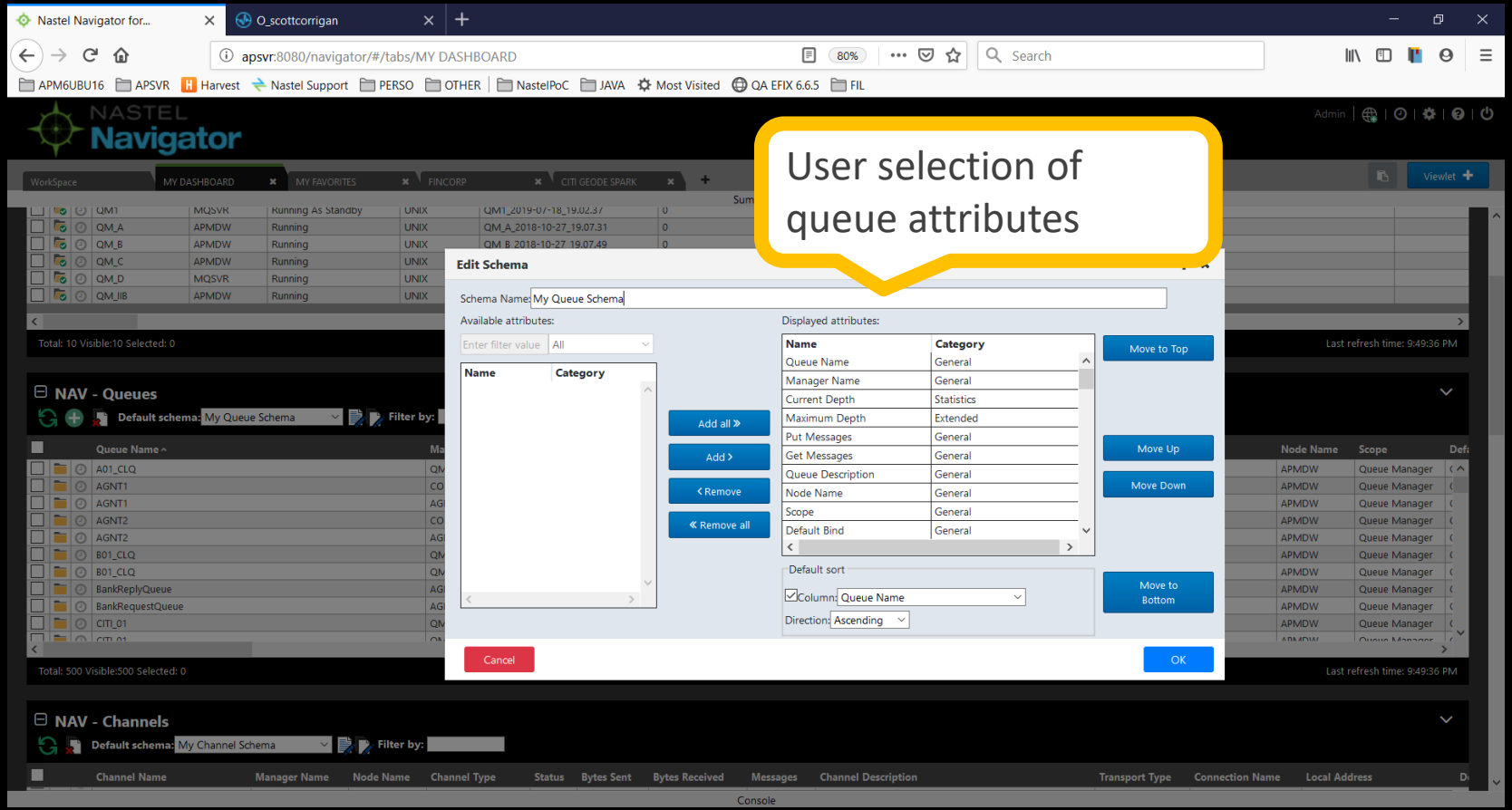
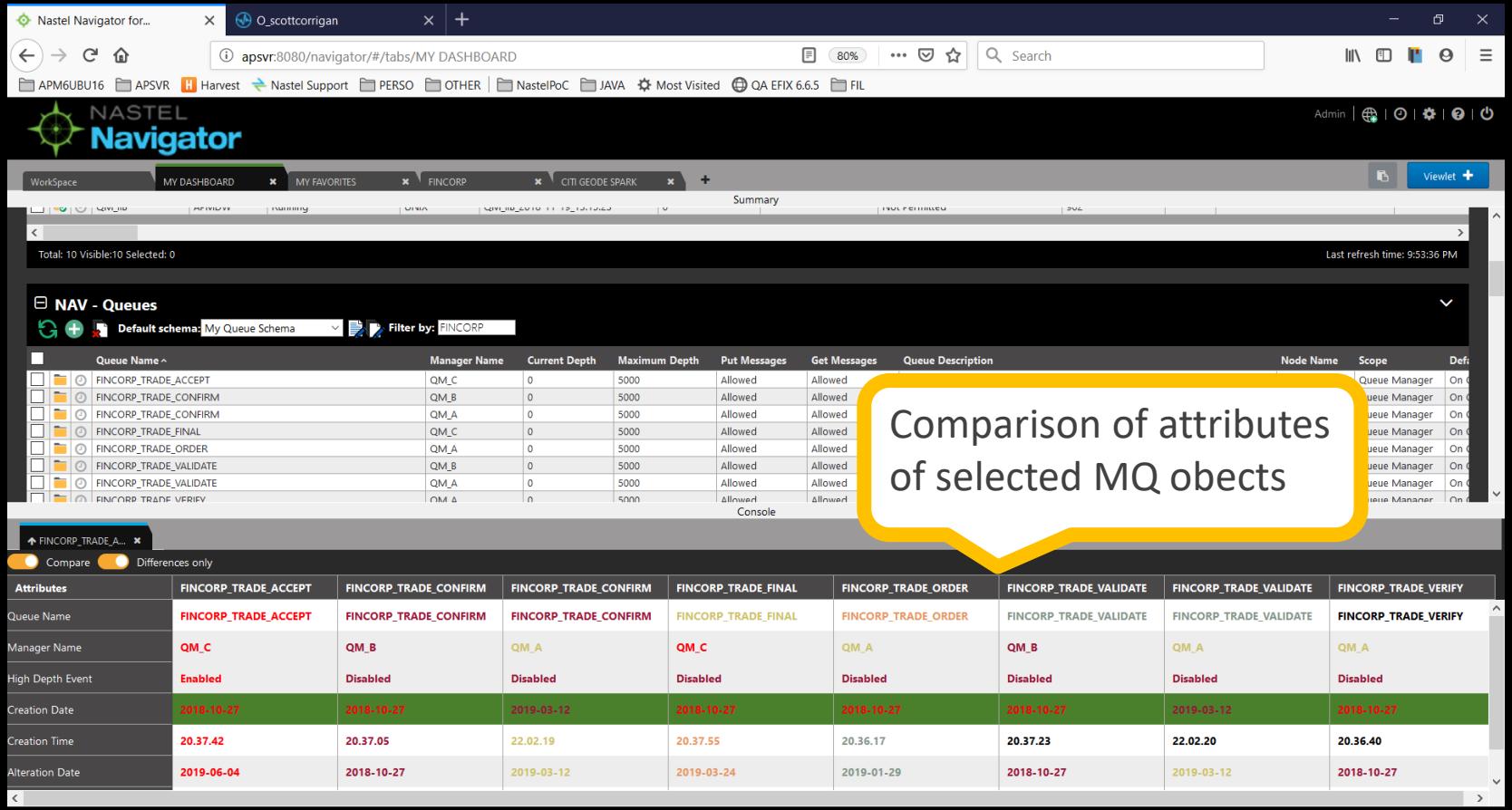
Nastel Navigator : Overview of display



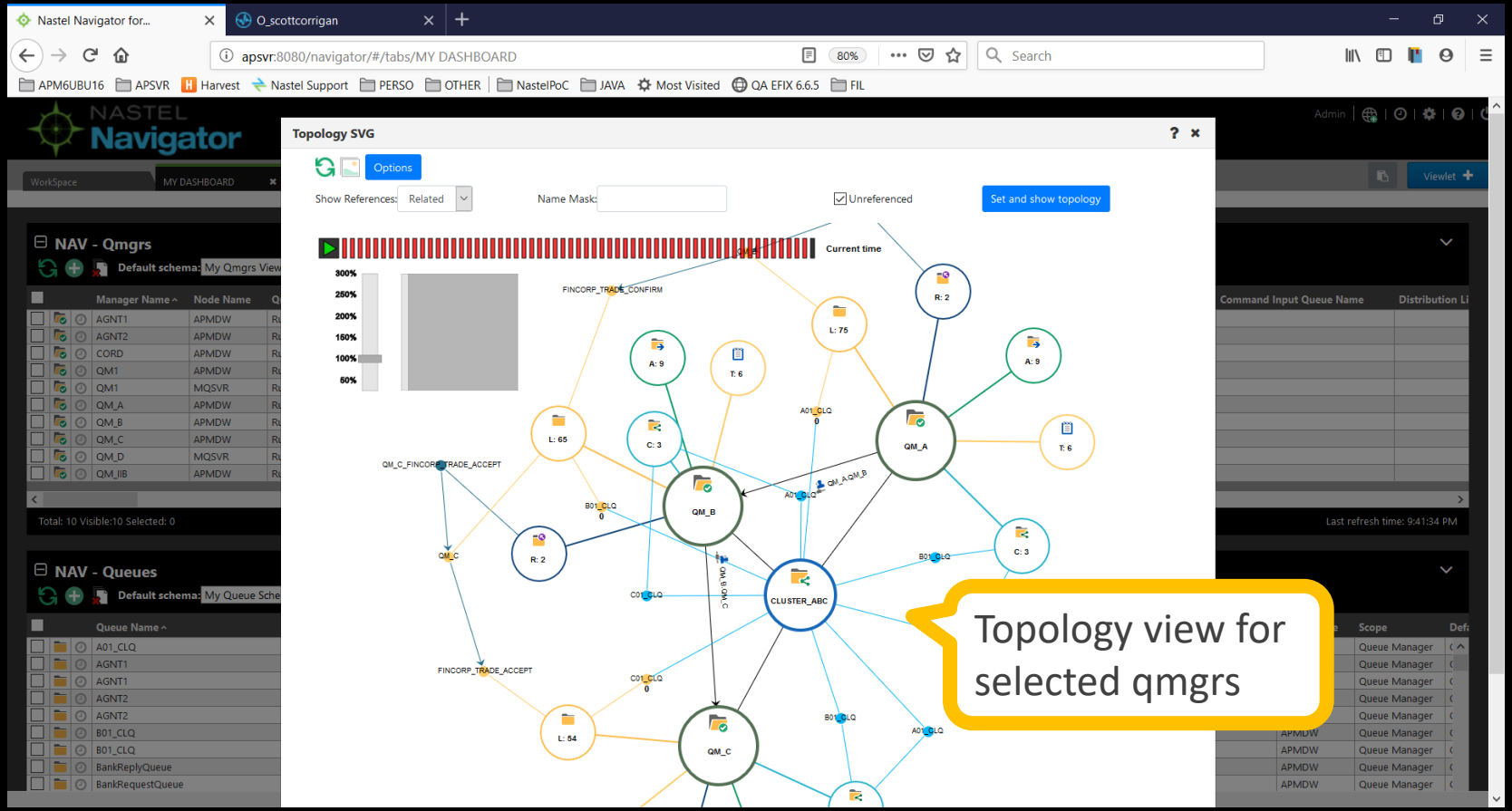
Nastel Navigator : Every display option is controlled by the user



Nastel Navigator : Select multiple objects and compare attributes



Nastel Navigator : MQ Topology View



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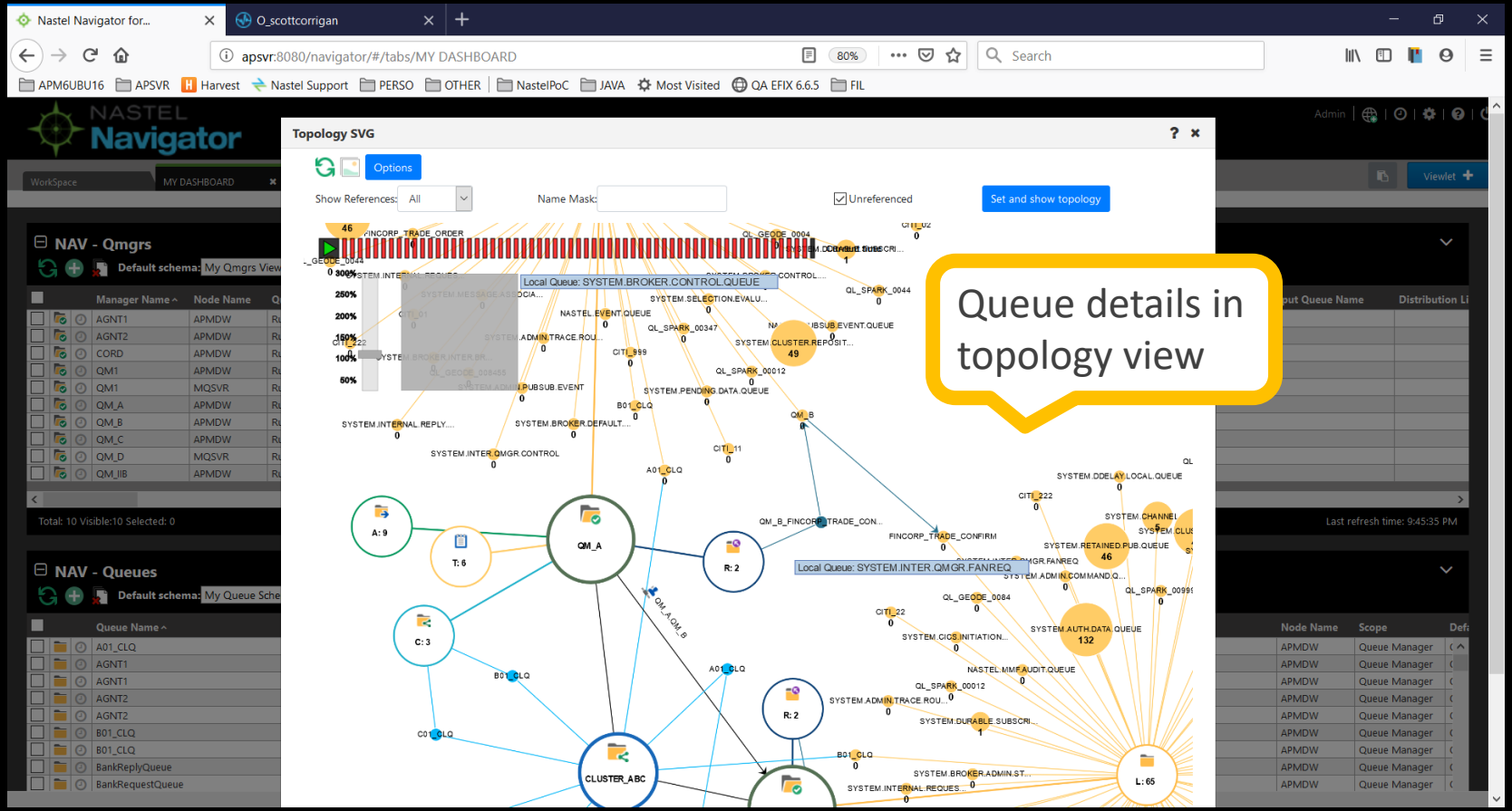
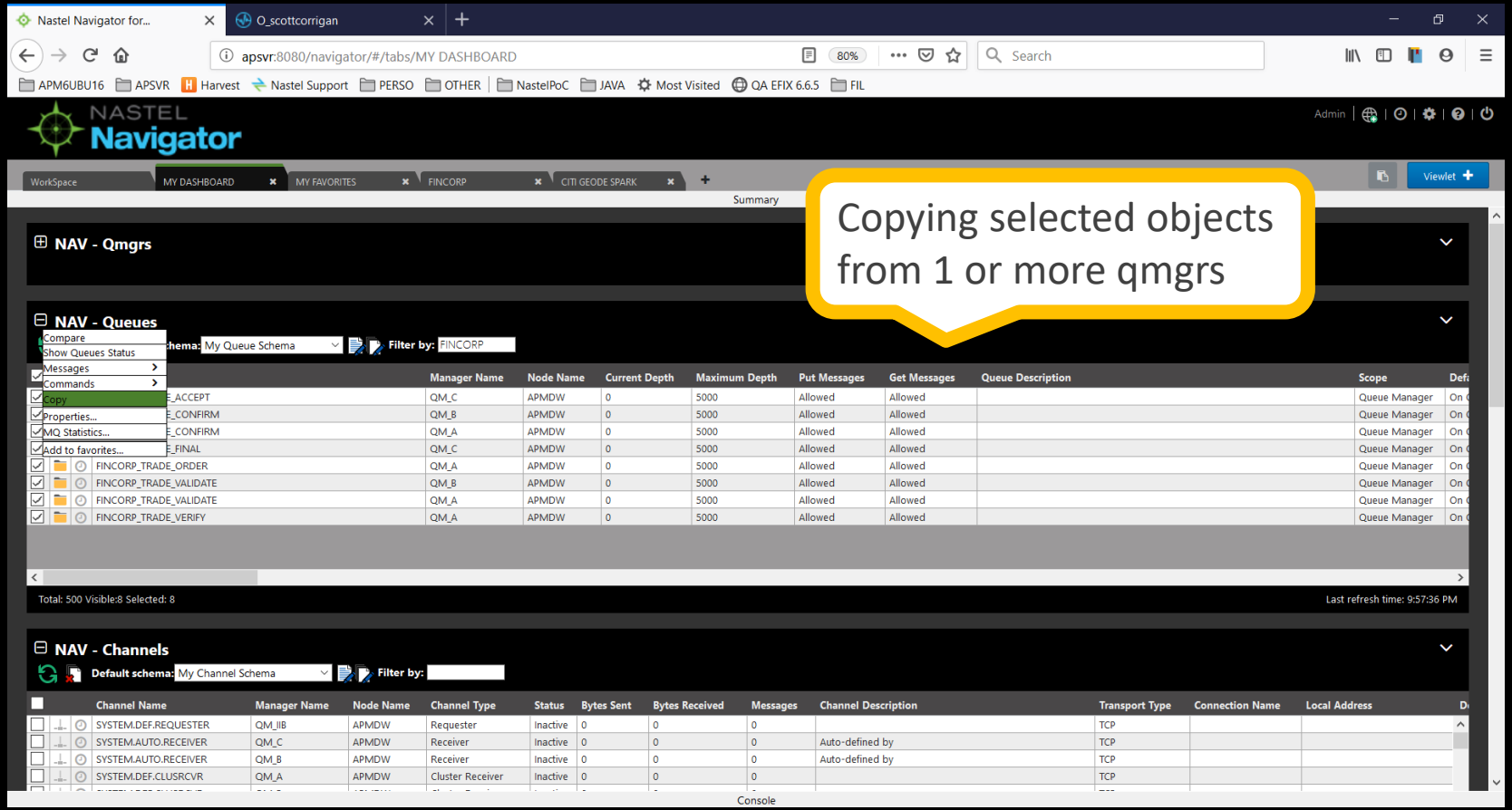


Nastel Navigator : Copy / paste multiple objects between QMgrs (migration)



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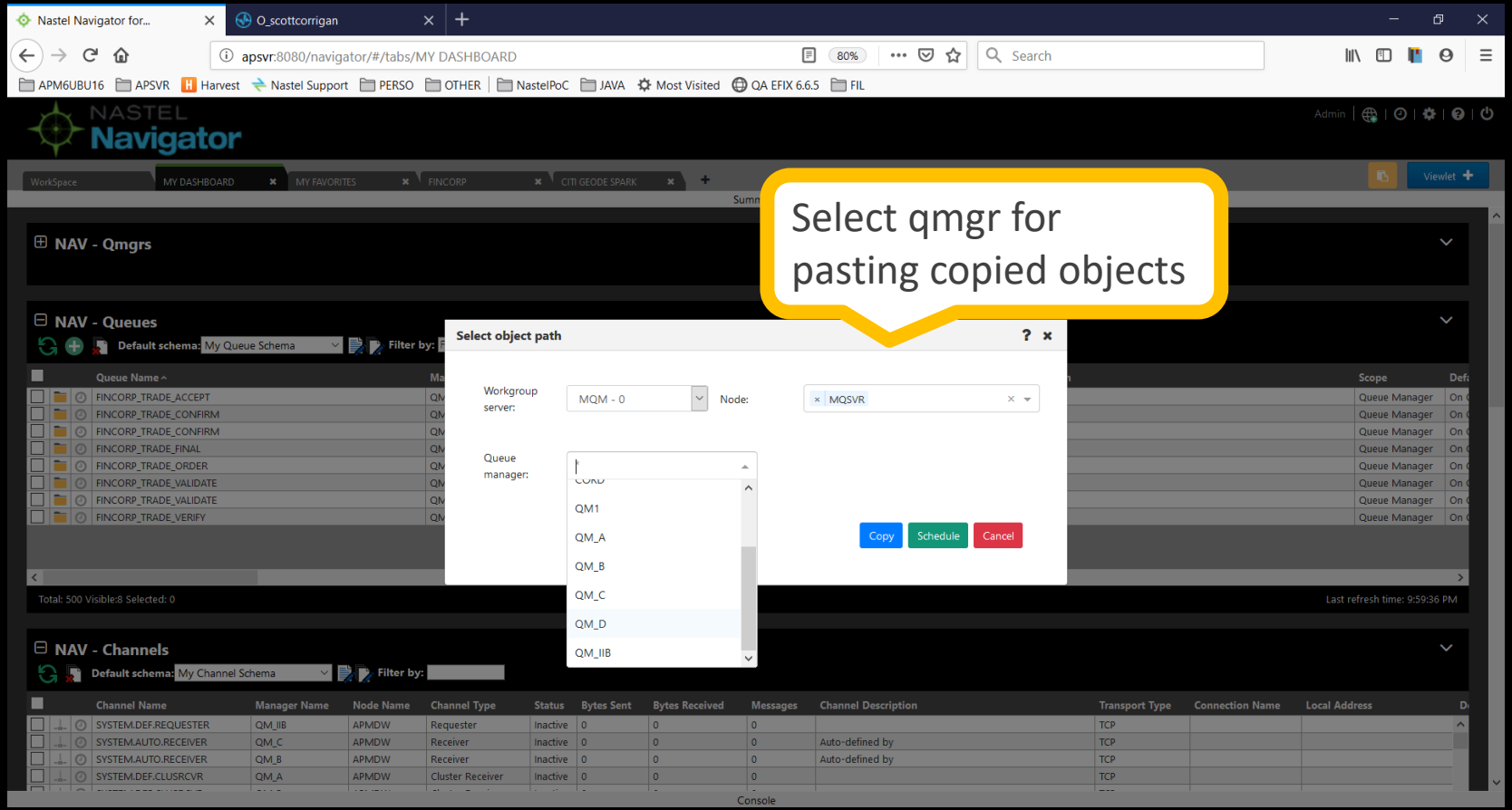
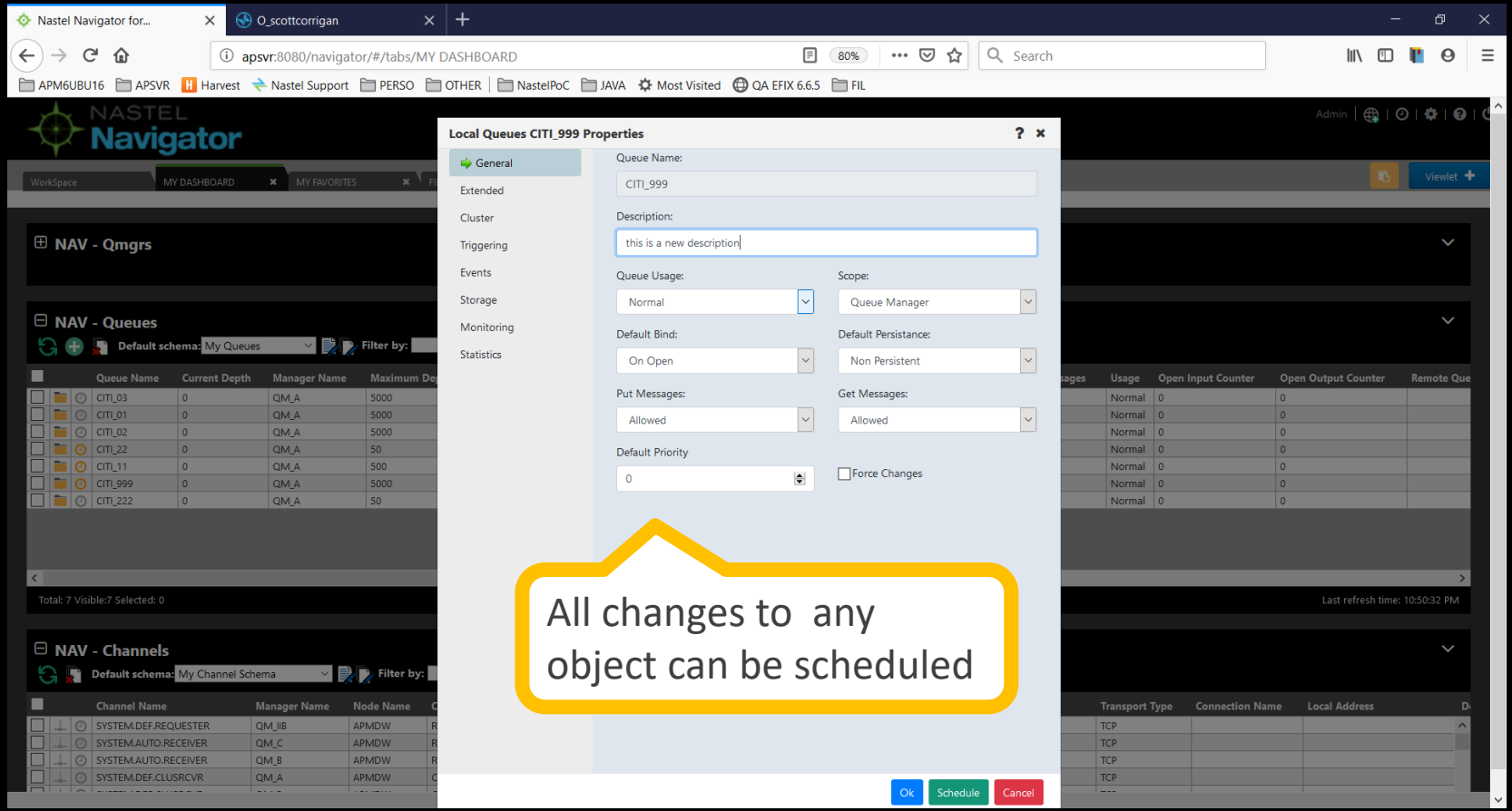


Nastel Navigator : Scheduled changes to MQ objects



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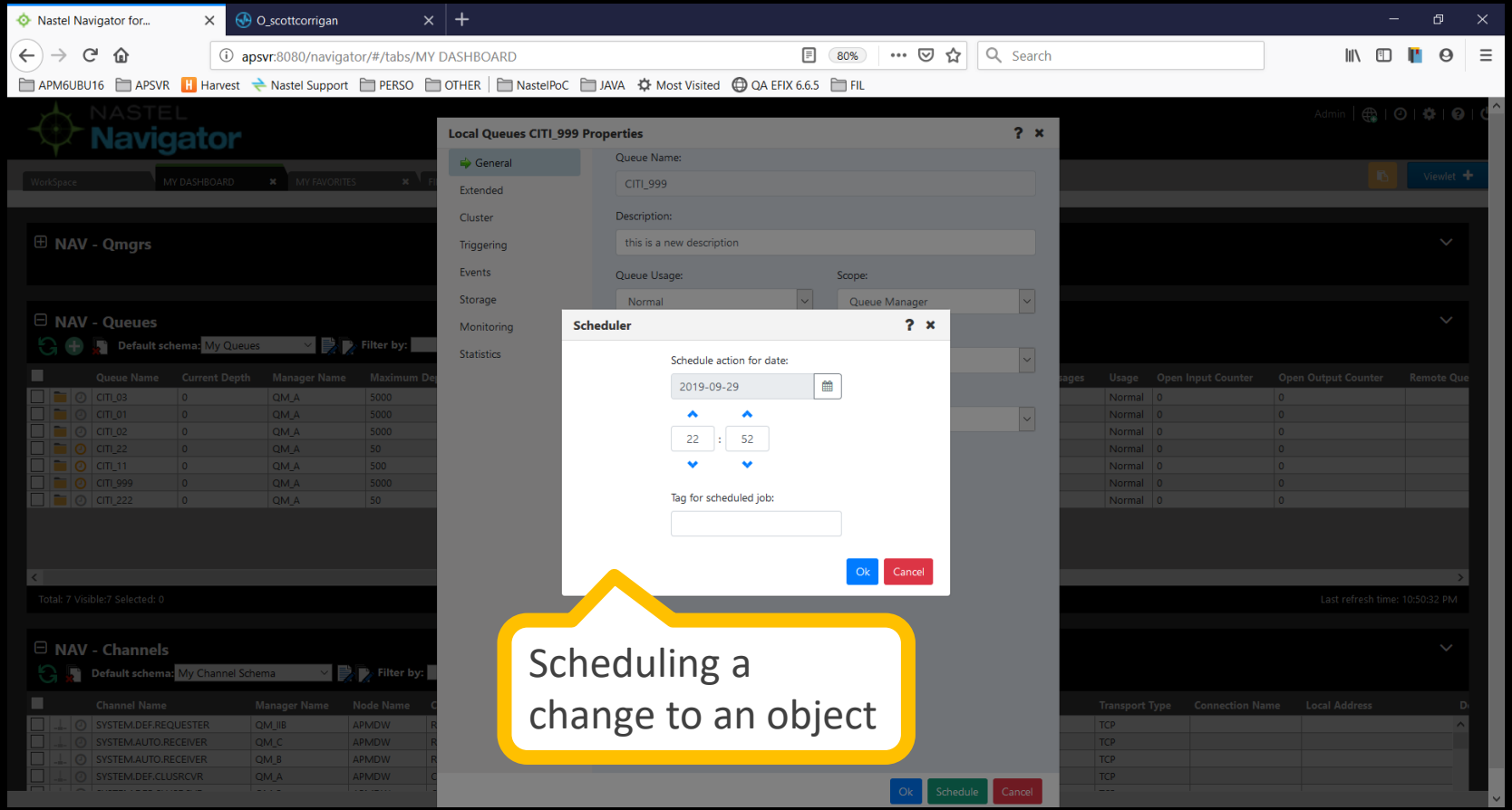

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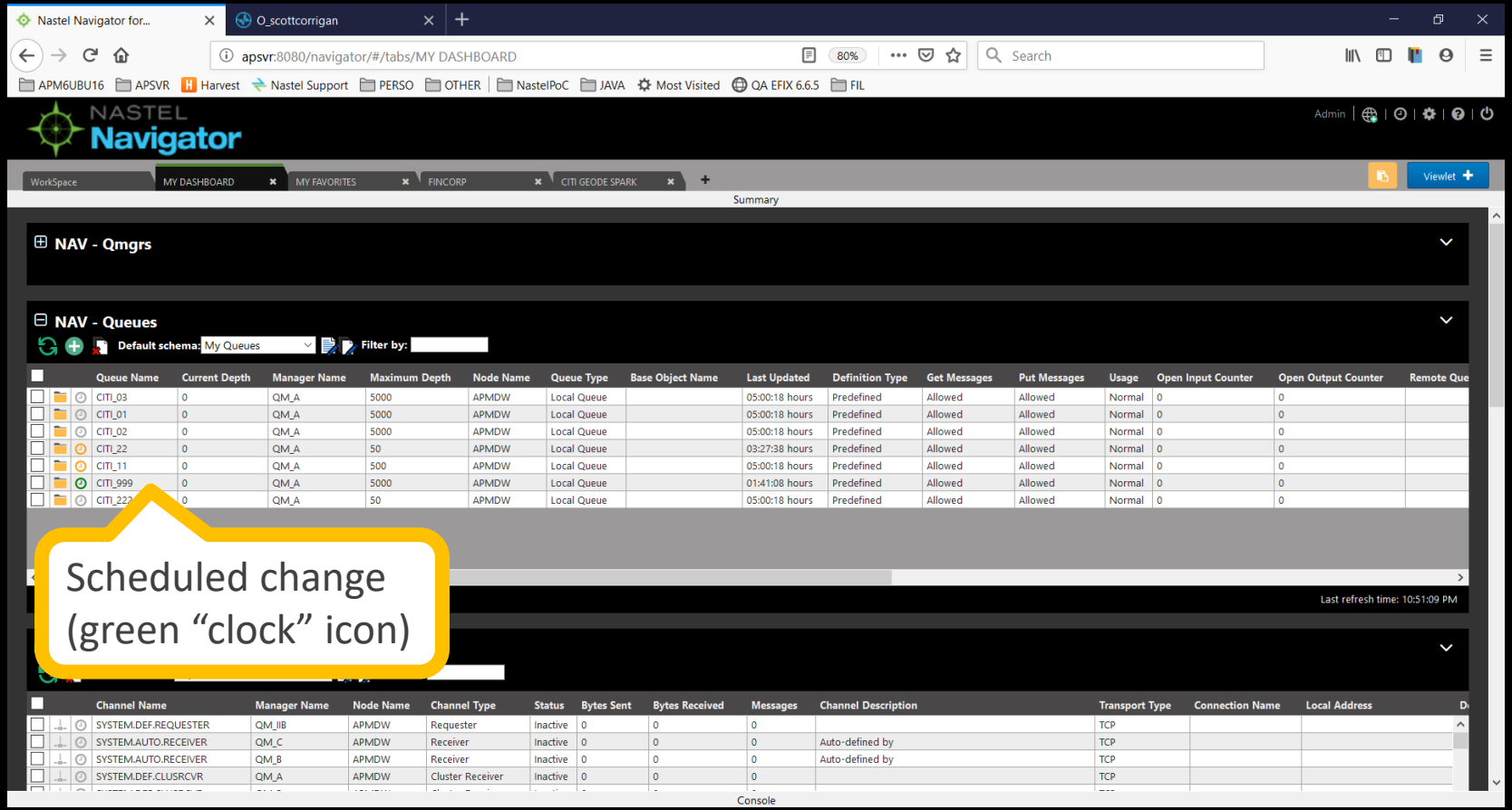
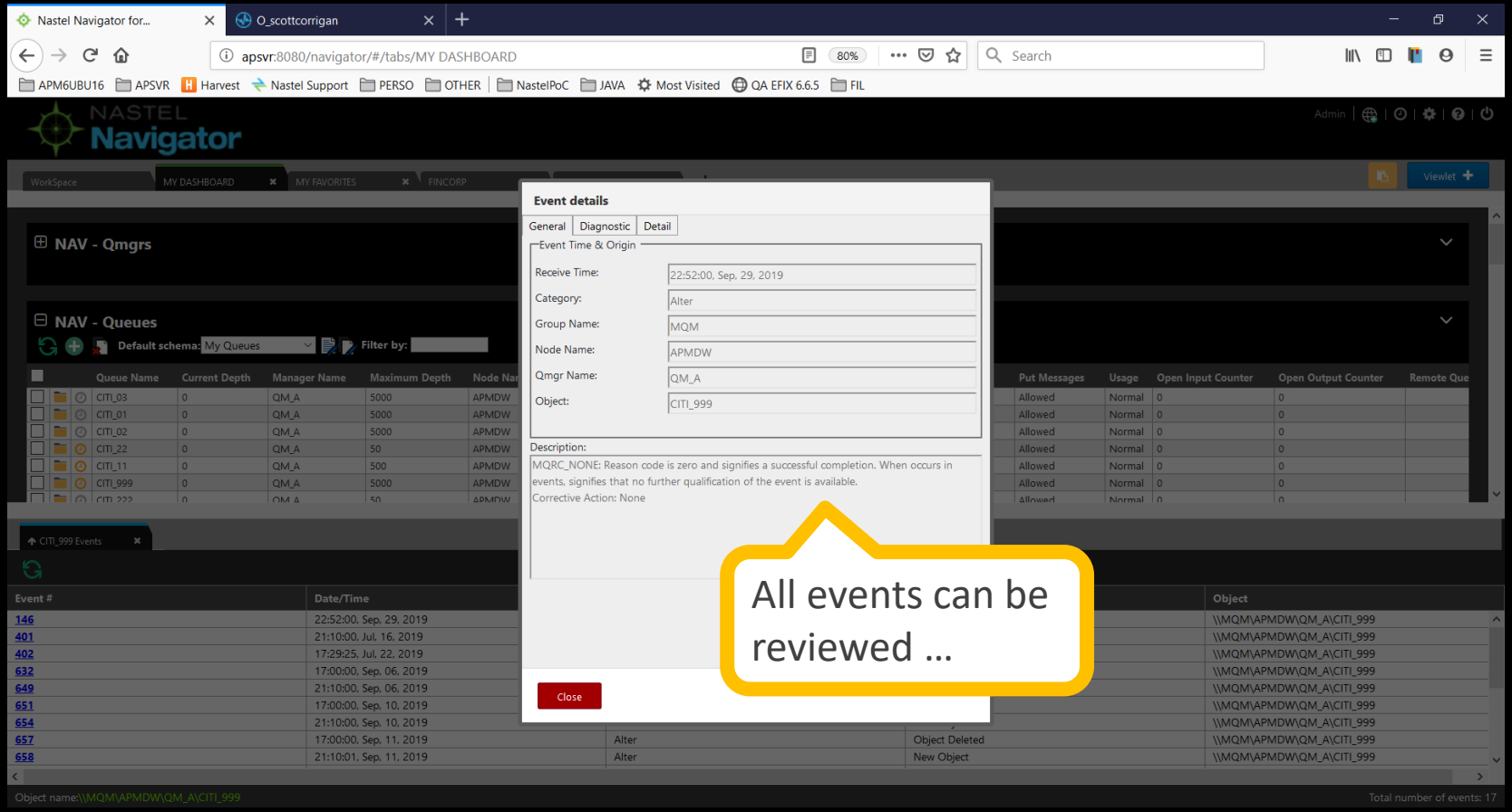


Nastel Navigator : MQ configuration events (with Rollback option)



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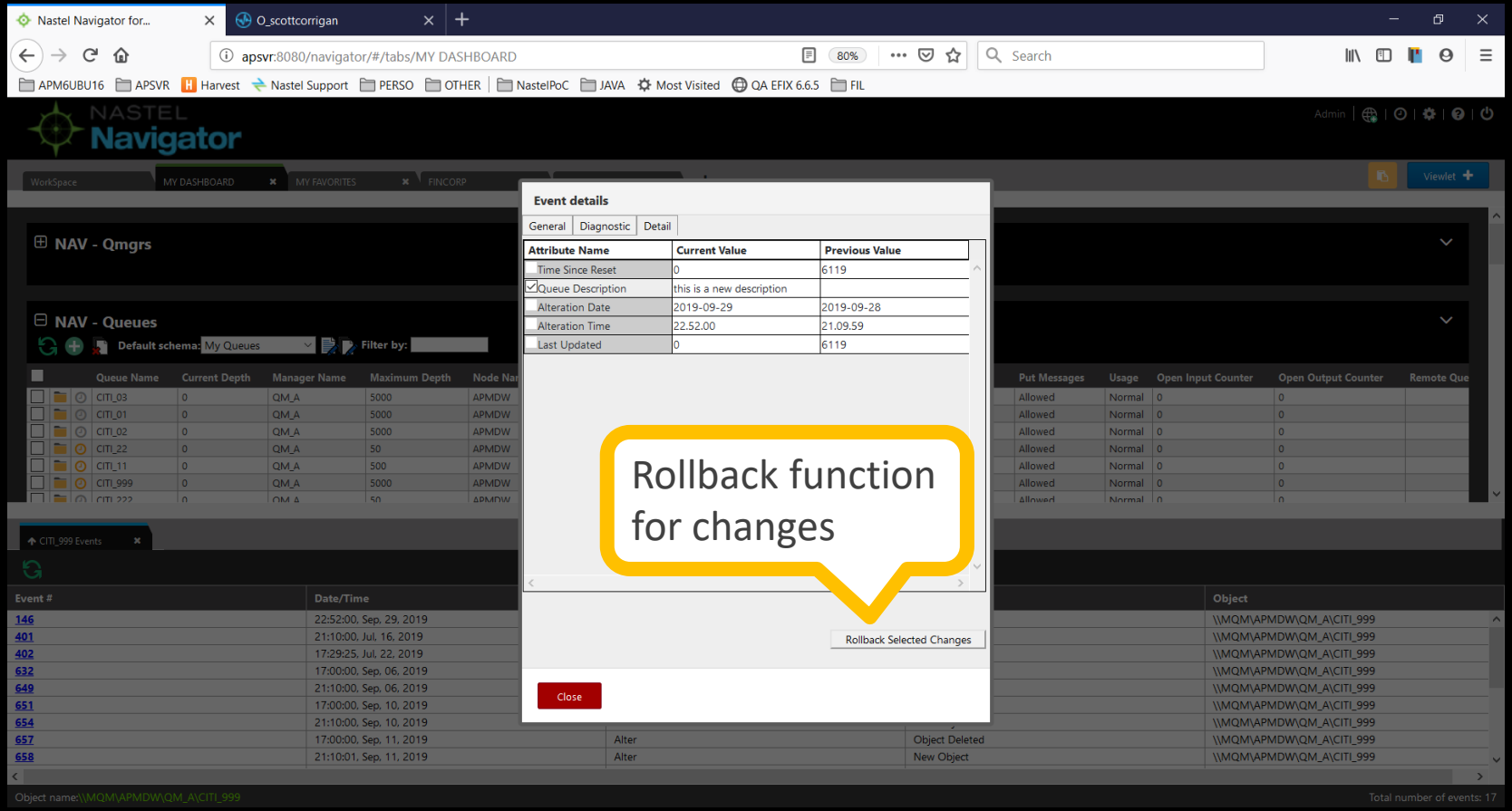
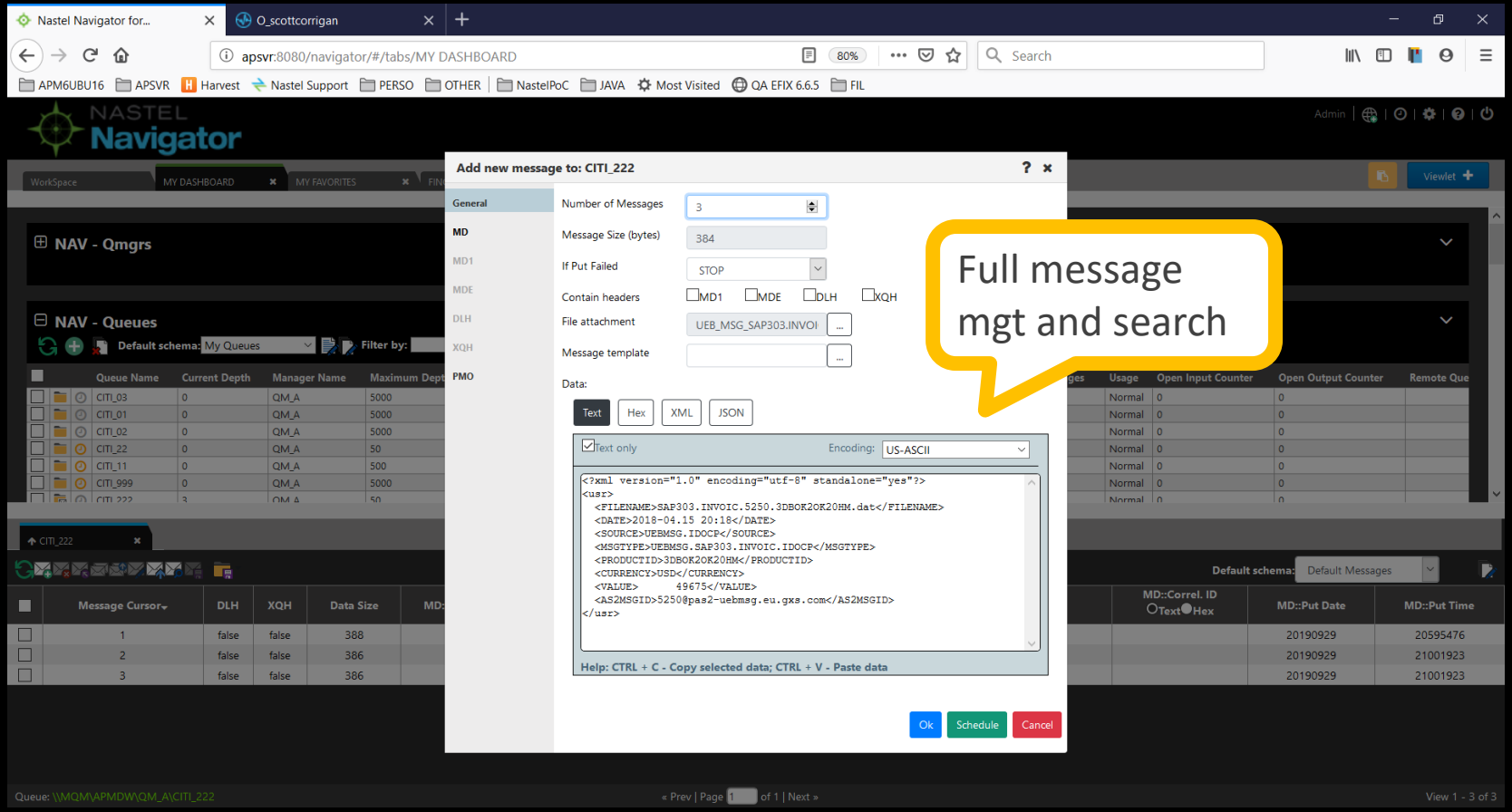


Nastel Navigator : MQ message management and message search



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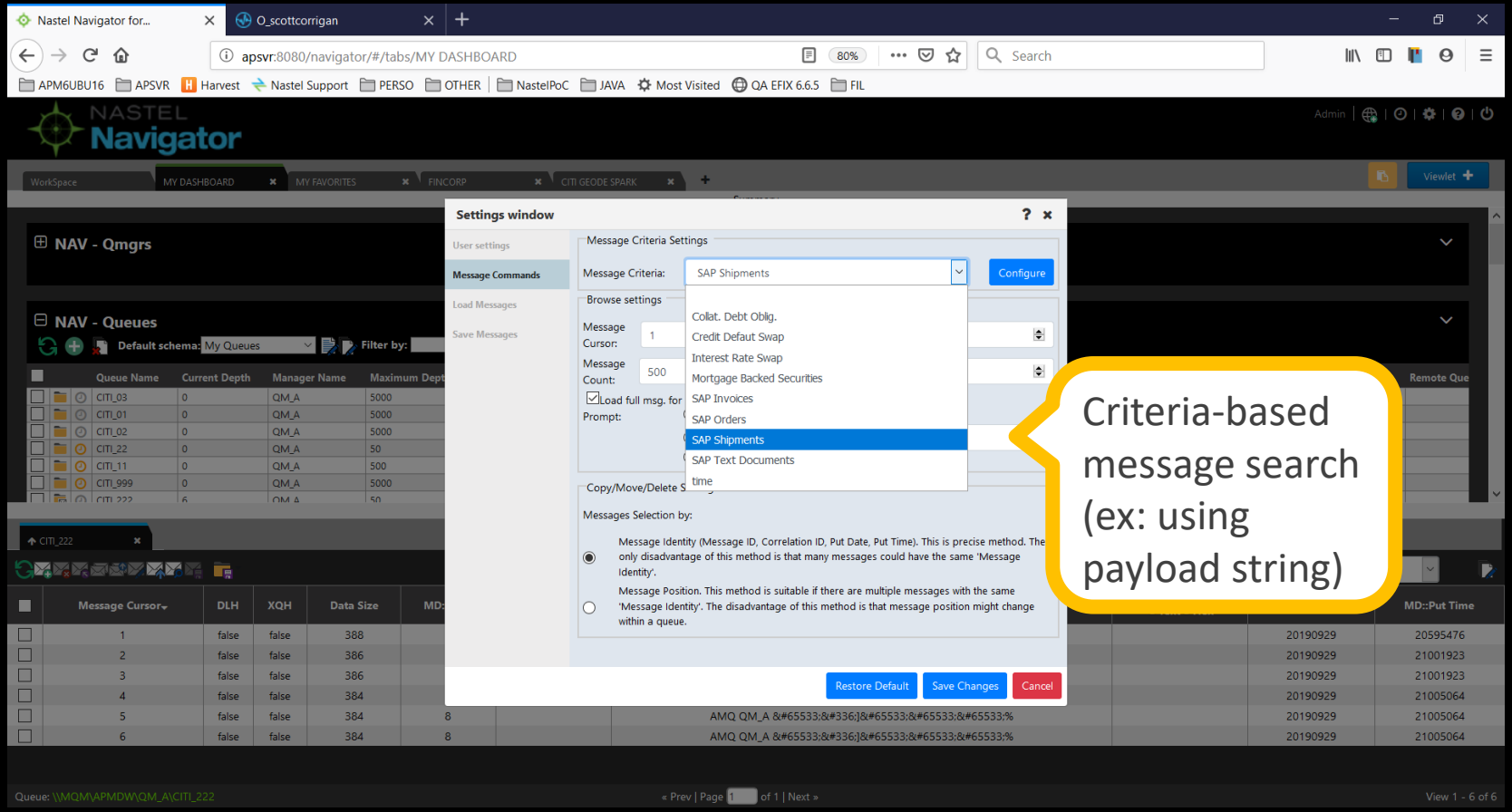

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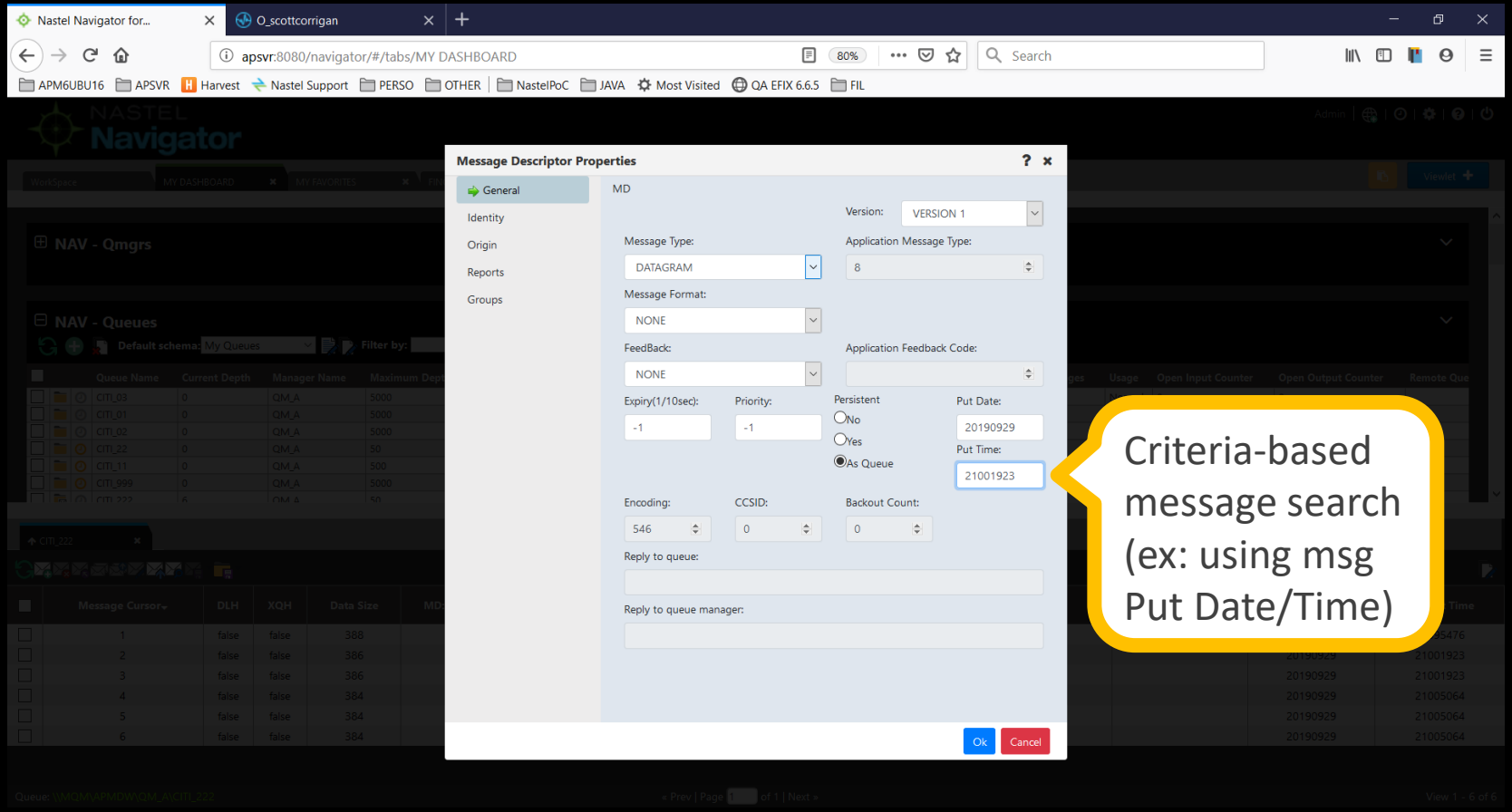
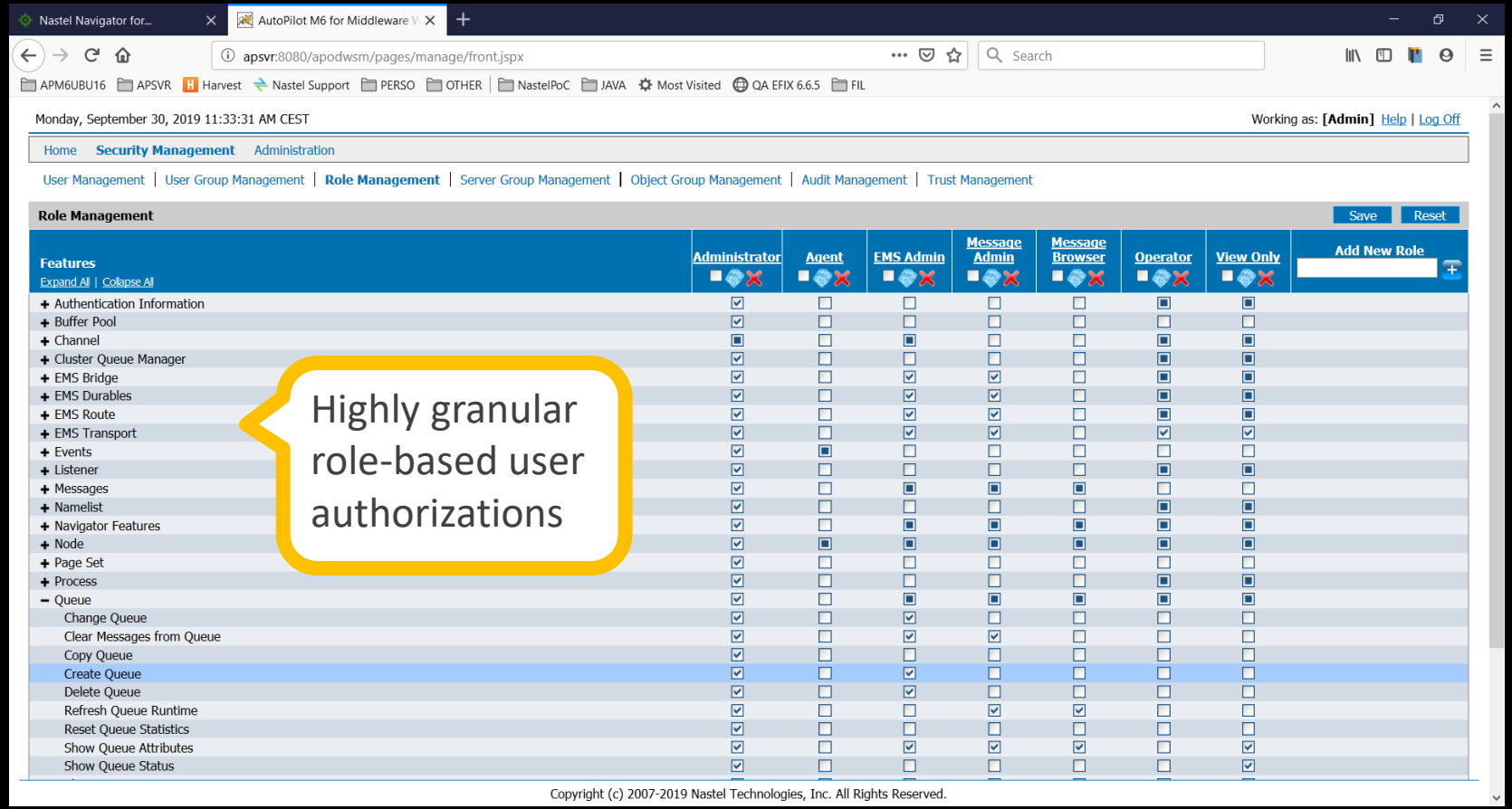


Nastel Navigator : Granular, secure self-service for Dev/Ops teams



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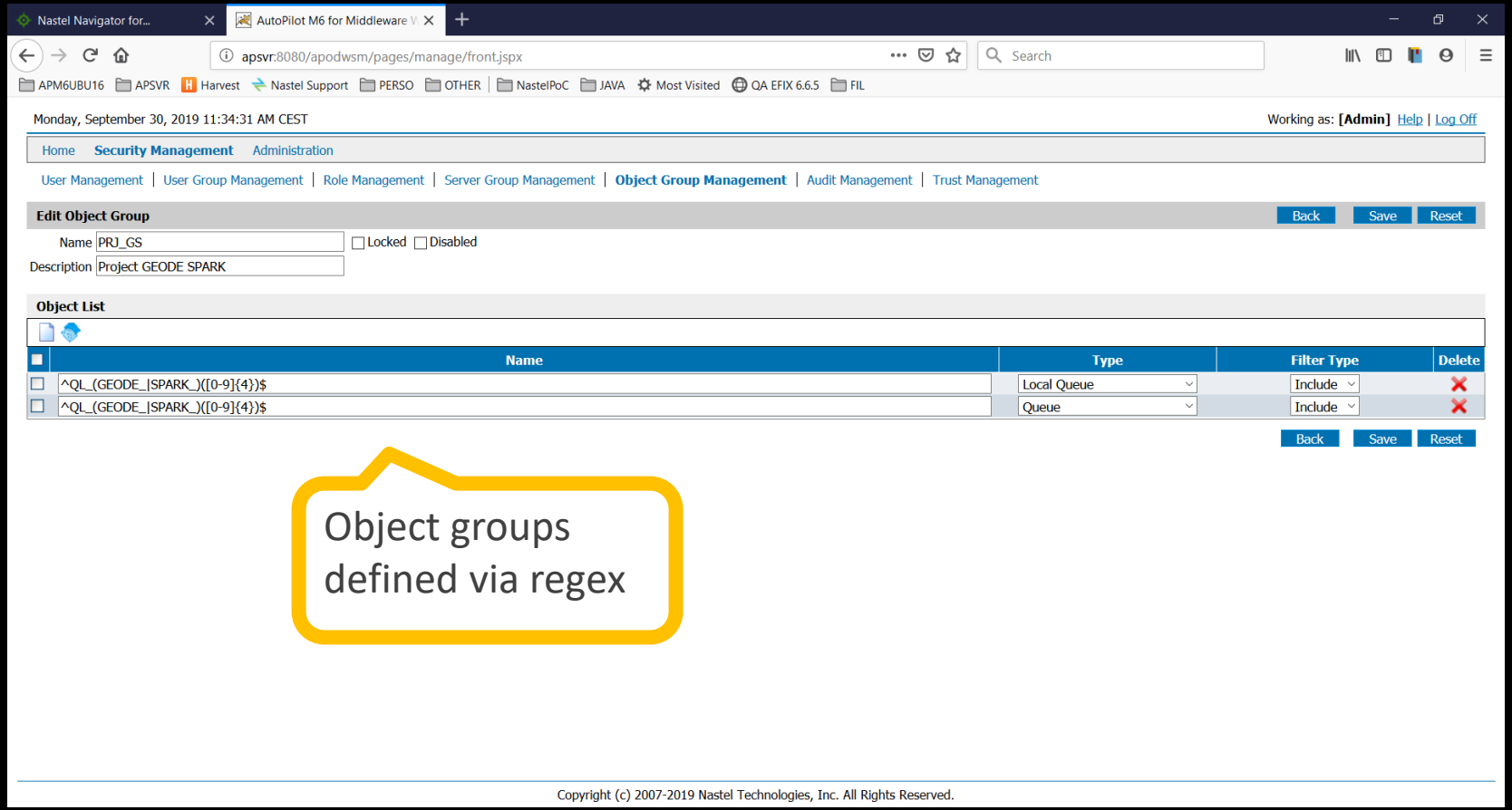

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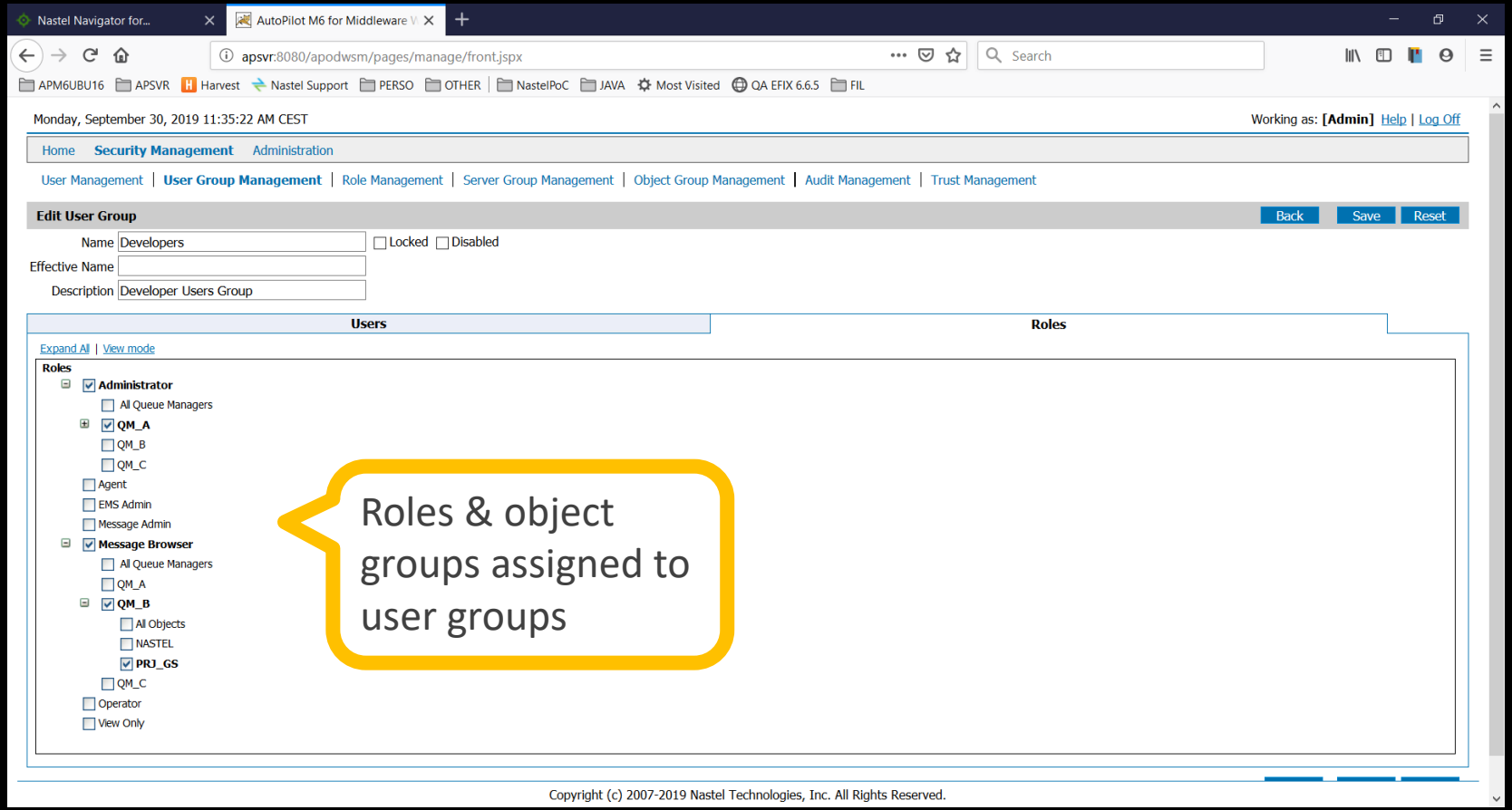

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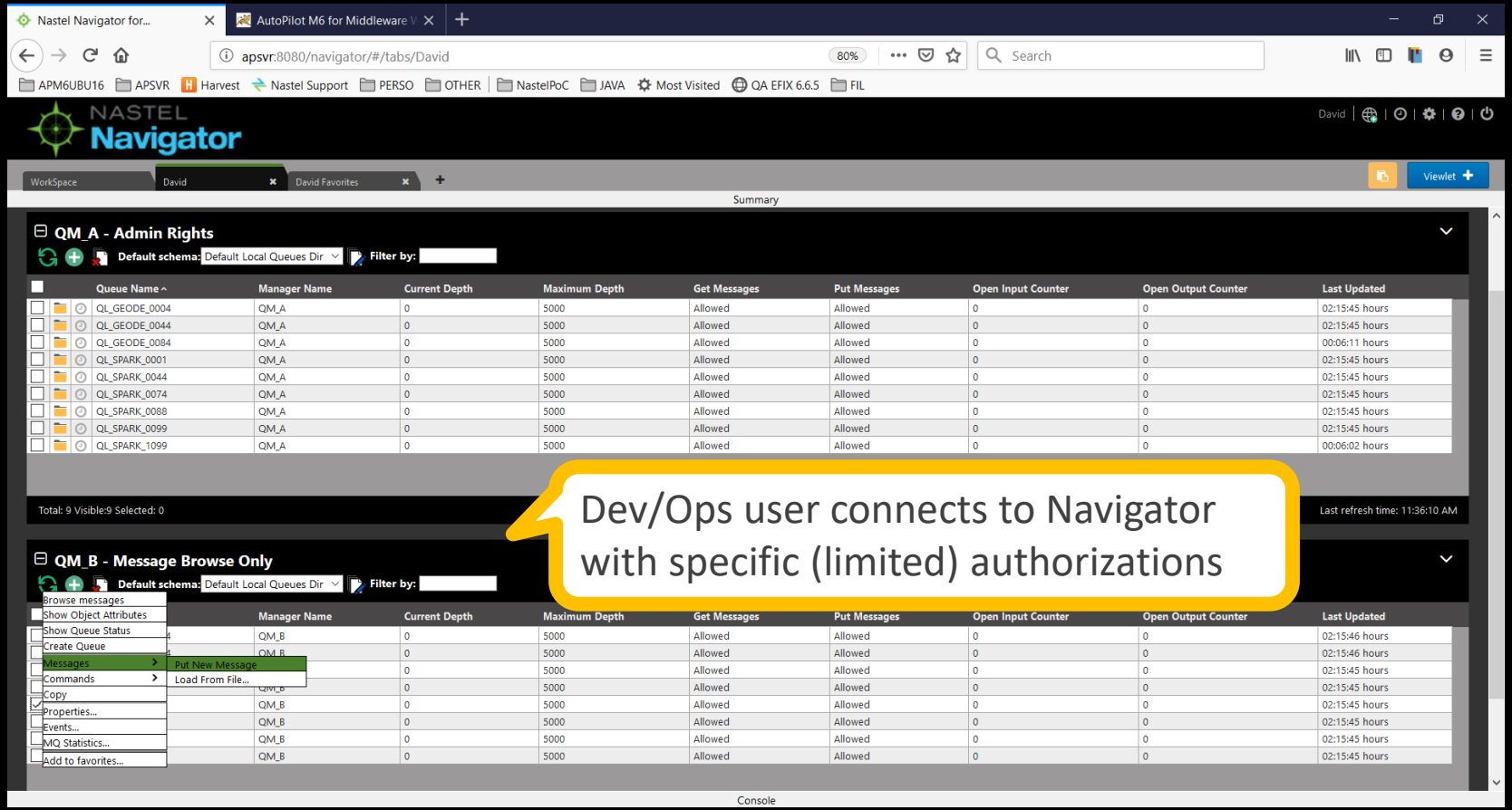

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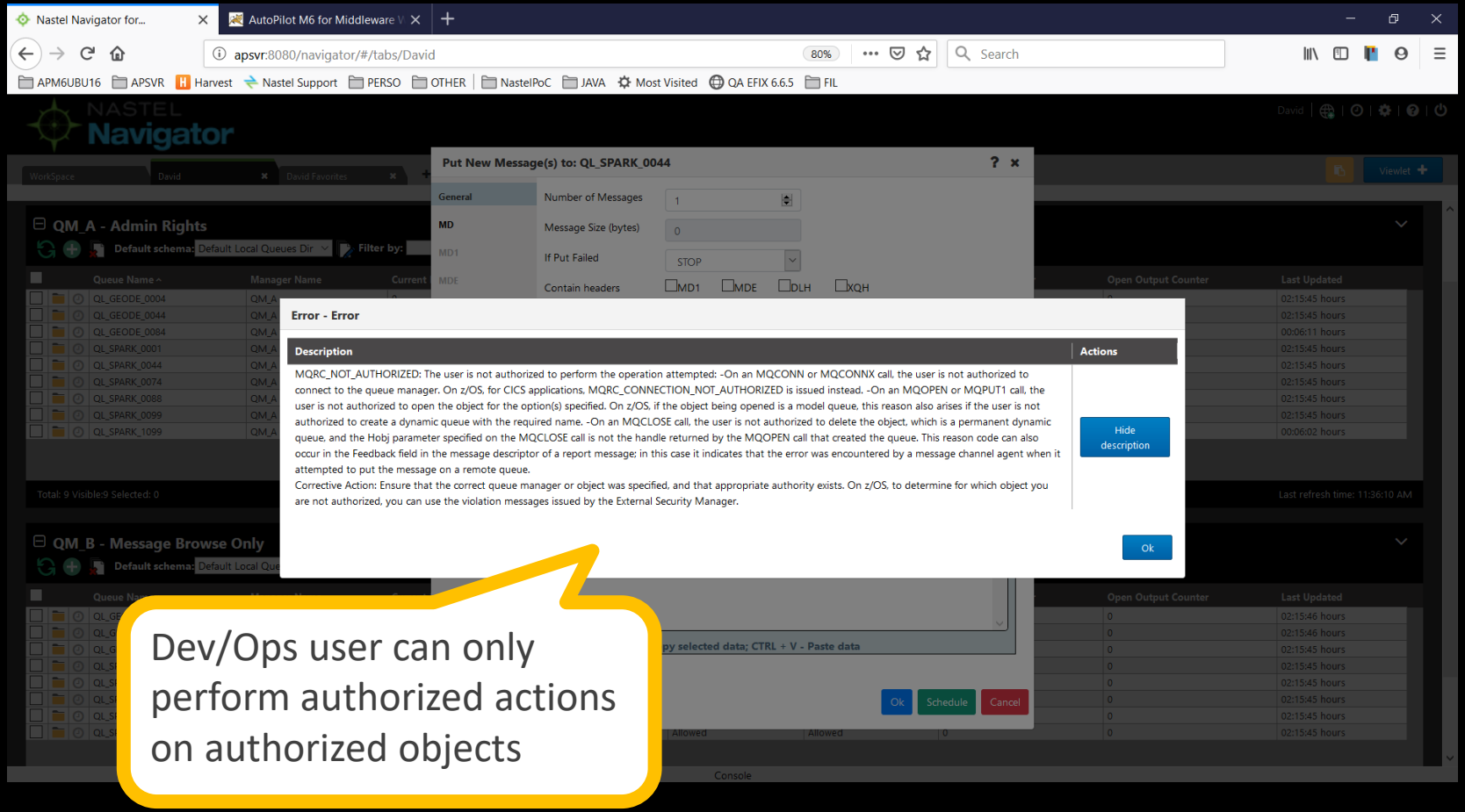

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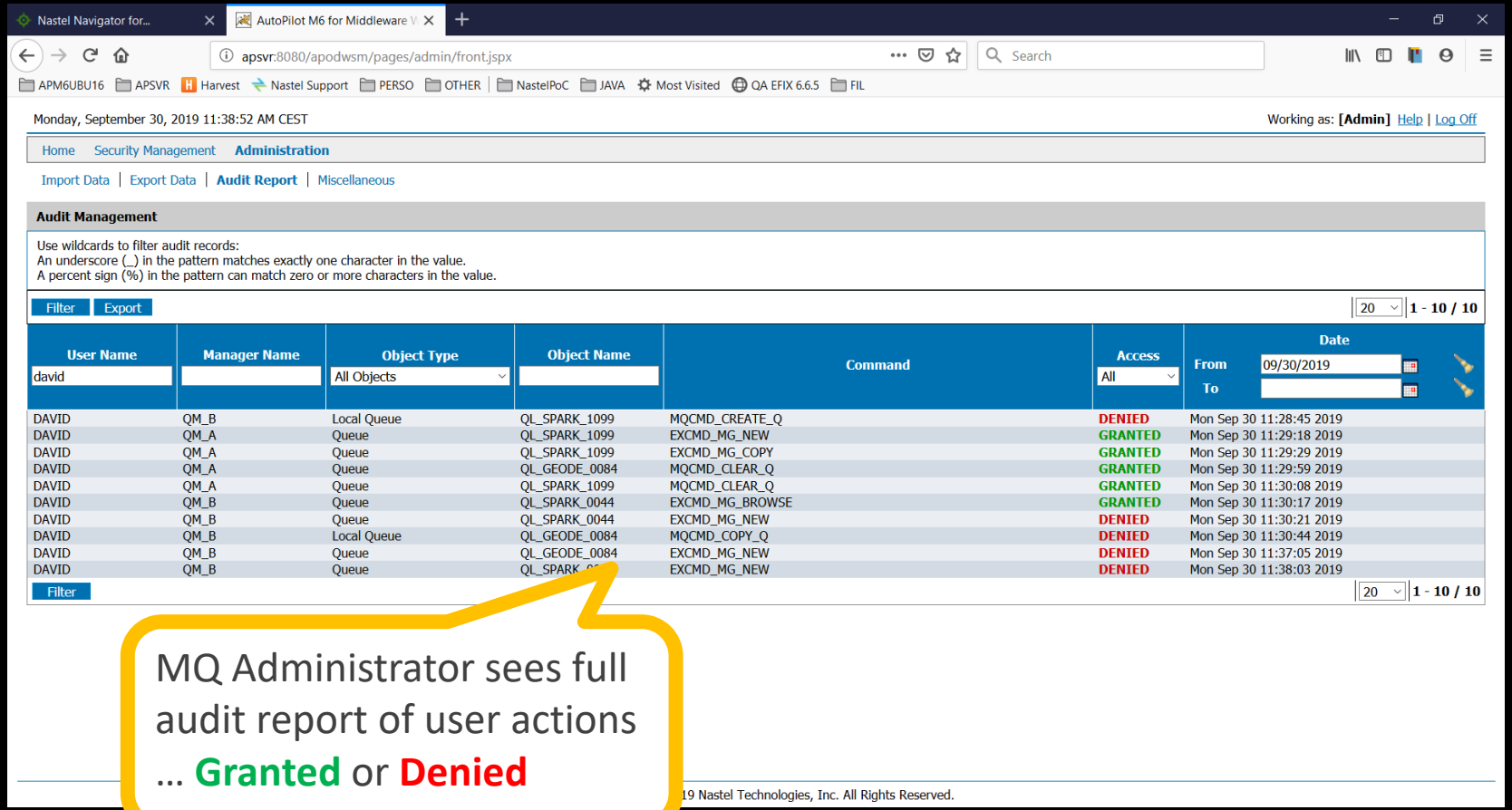

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Selected Demo Scenarios

NASTEL® AutoPilot™

Nastel Overview prepared for

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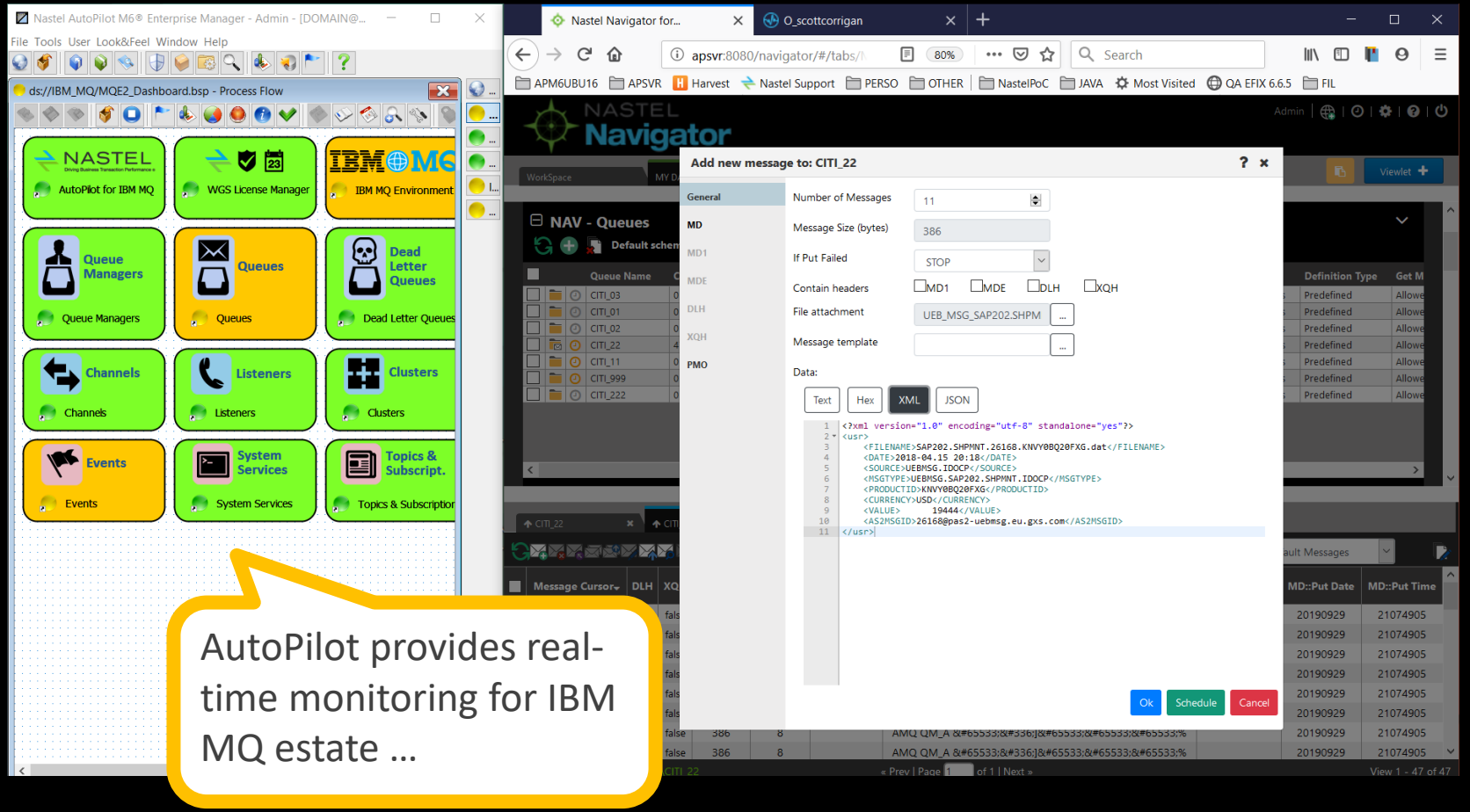
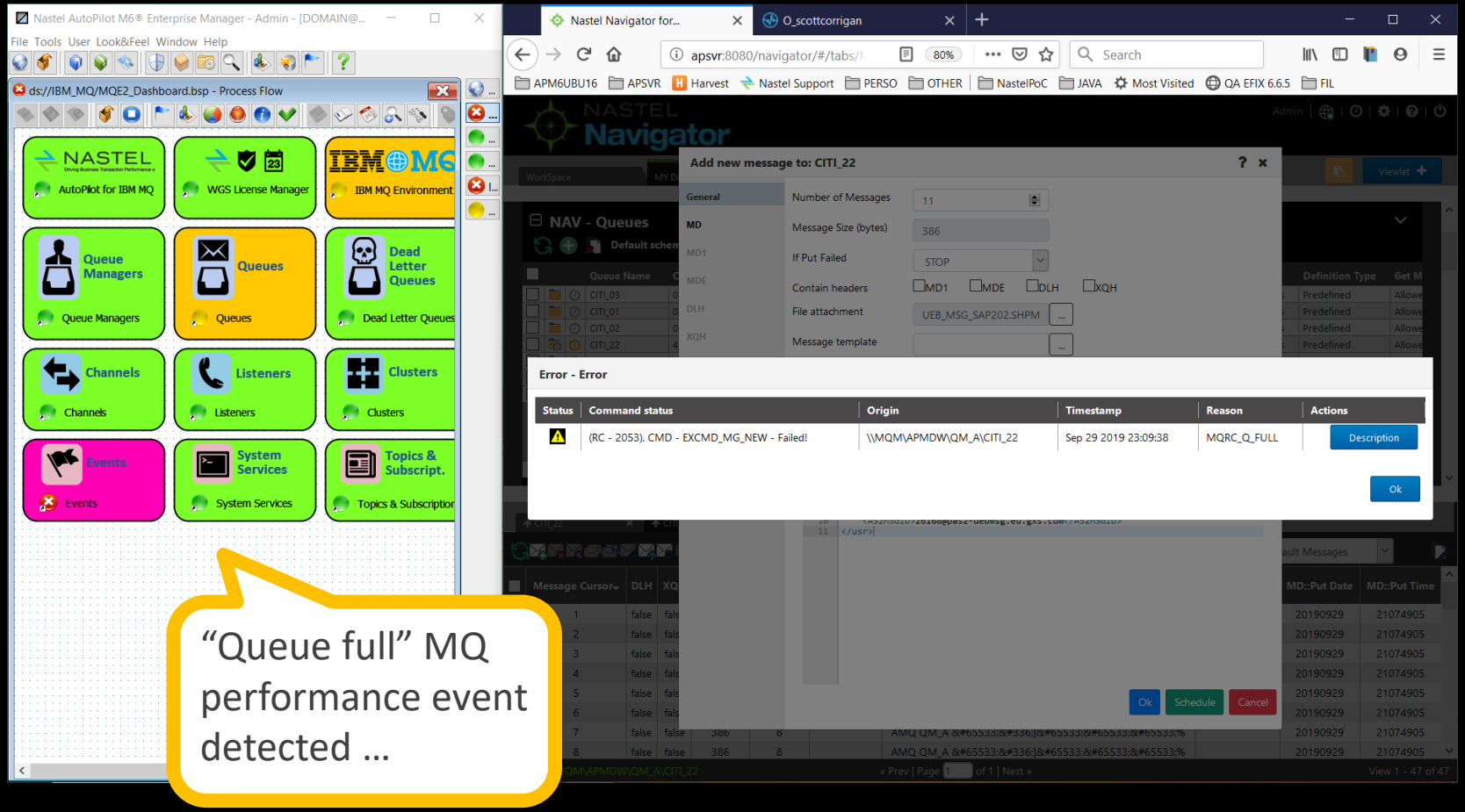
01 October 2019

Nastel AutoPilot : MQ monitoring



AutoPilot provides real-time monitoring for IBM MQ estate …

Nastel AutoPilot : MQ monitoring



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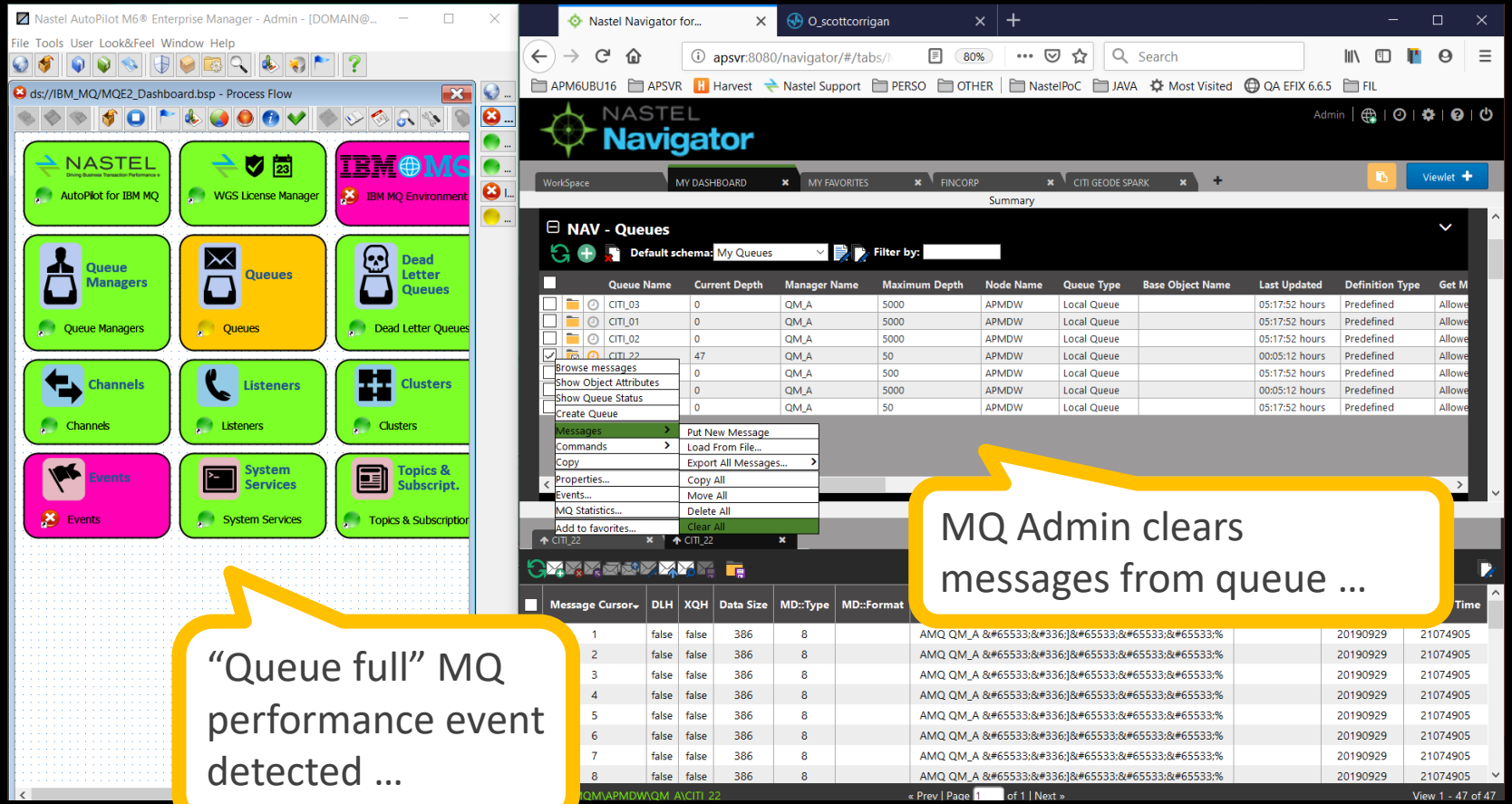
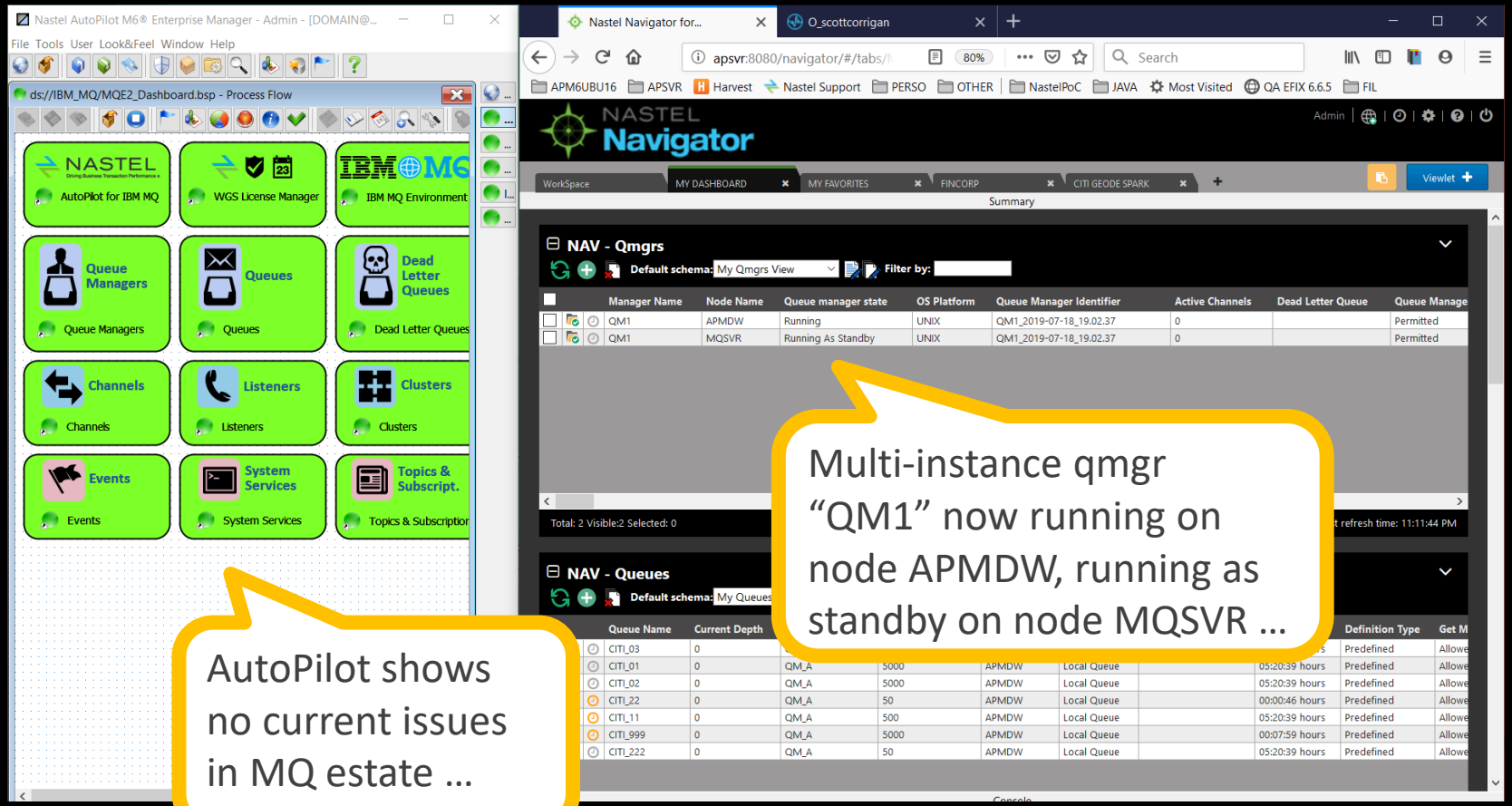


Nastel AutoPilot : Monitoring of multi-instance MQ Qmgrs



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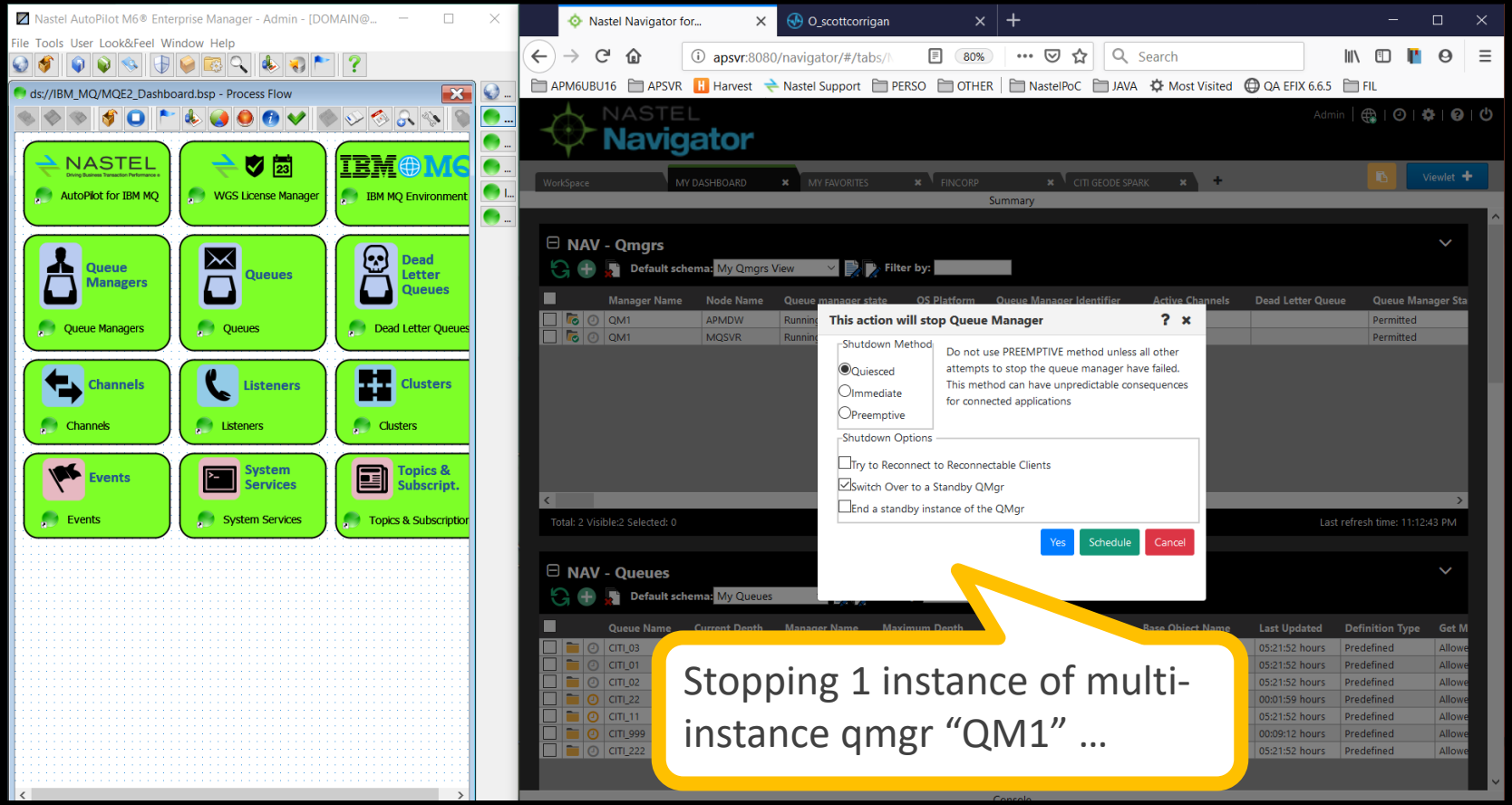
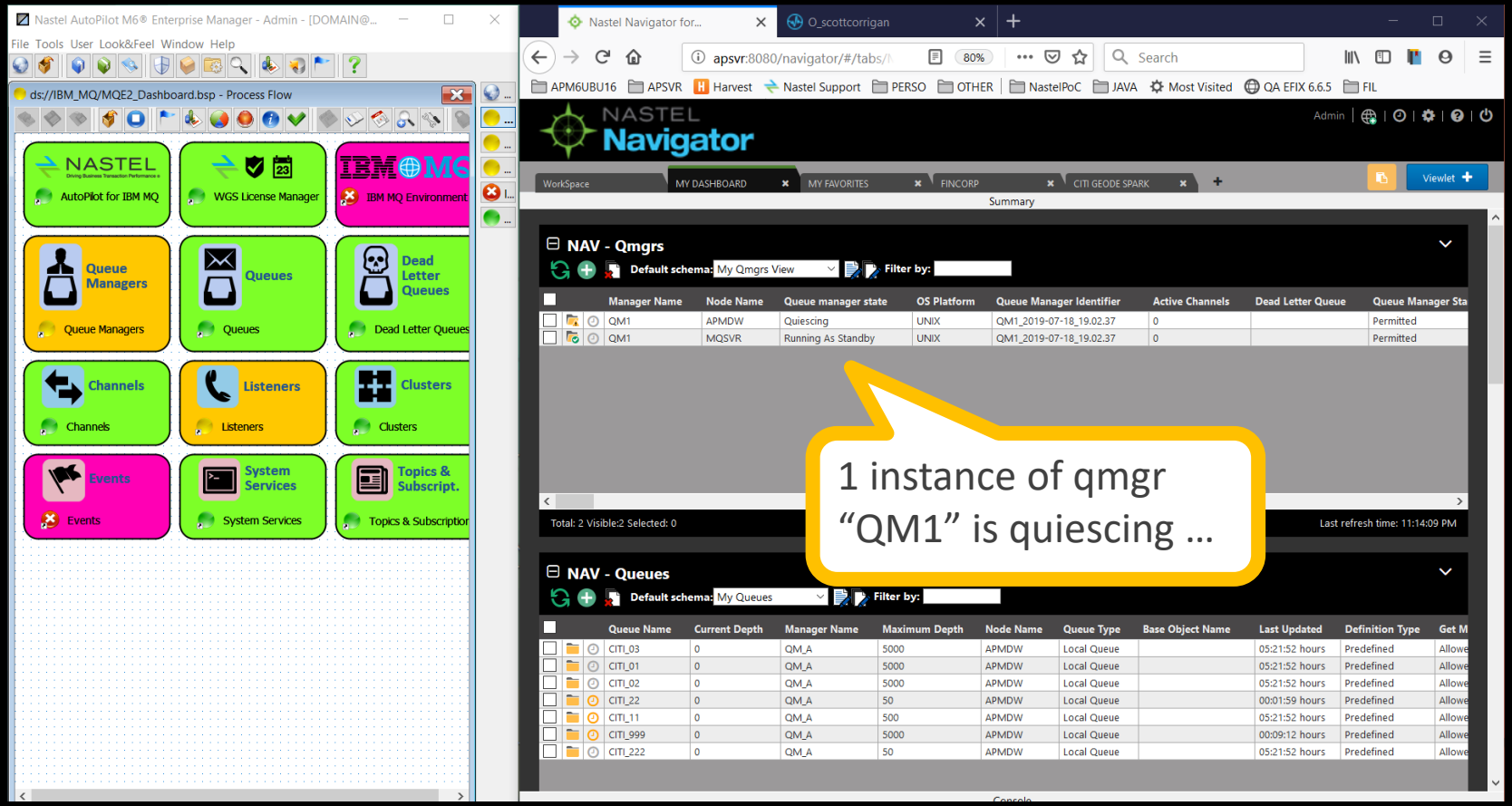
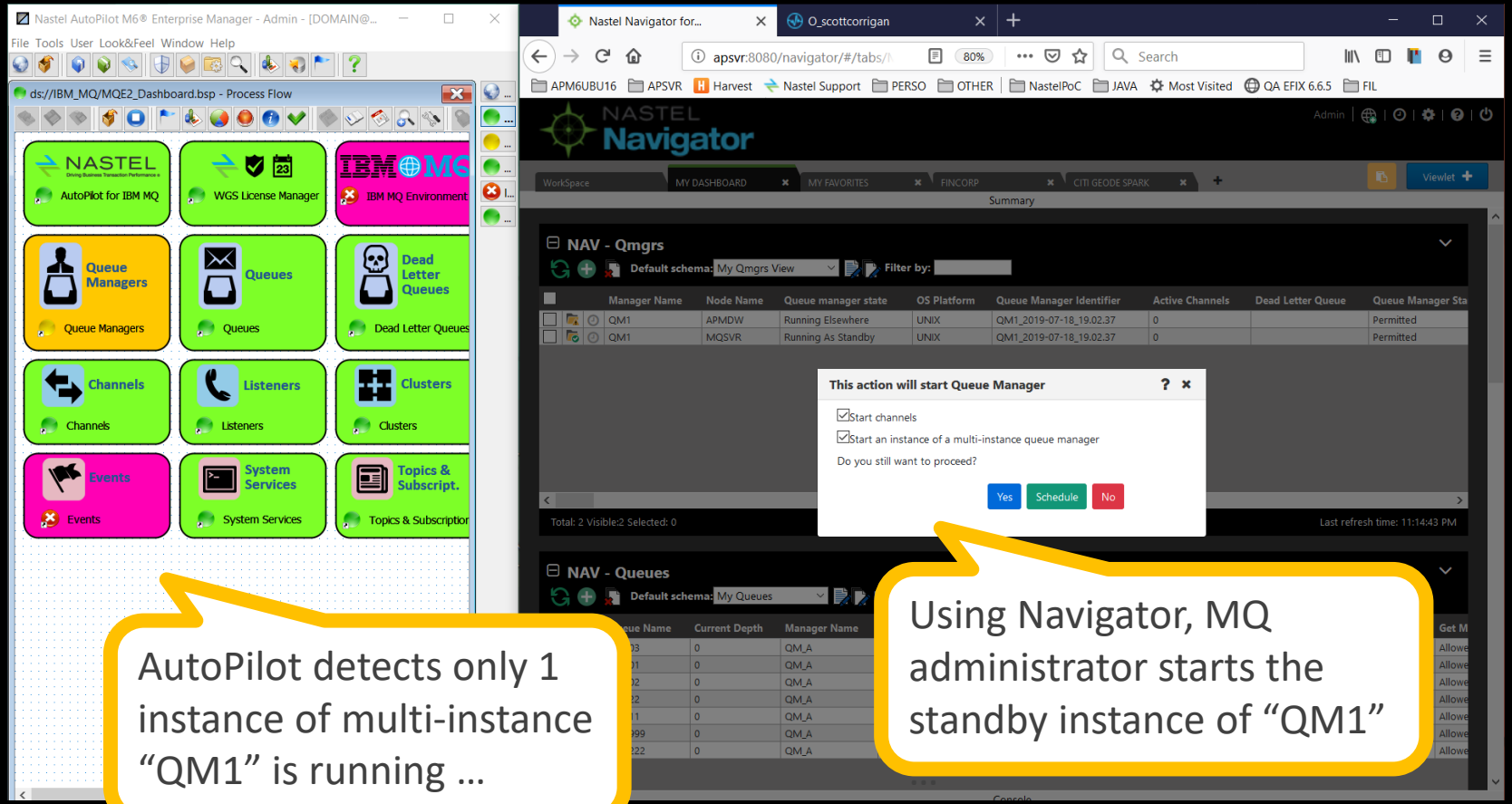


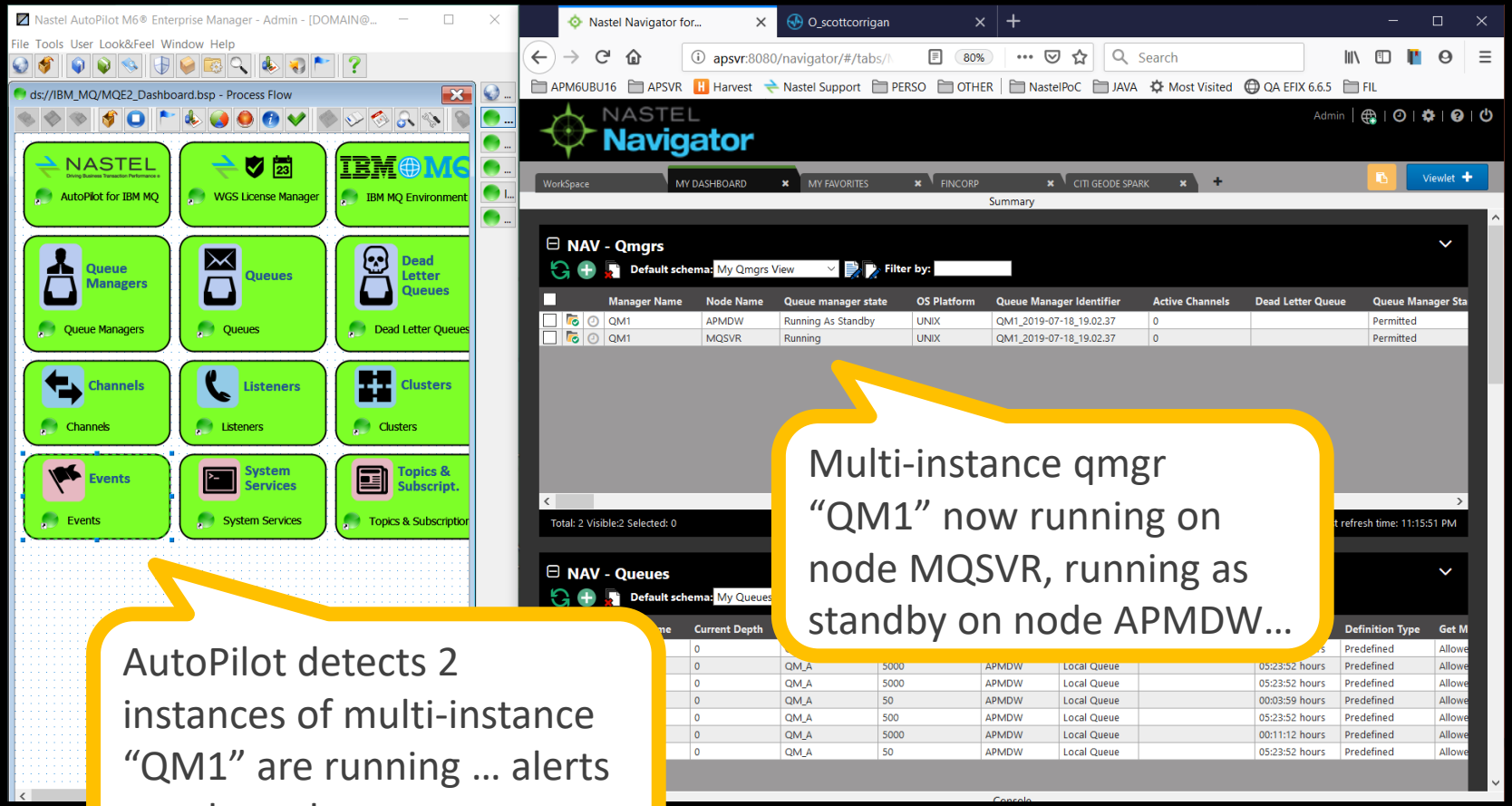
Nastel AutoPilot : Monitoring of multi-instance MQ Qmgrs



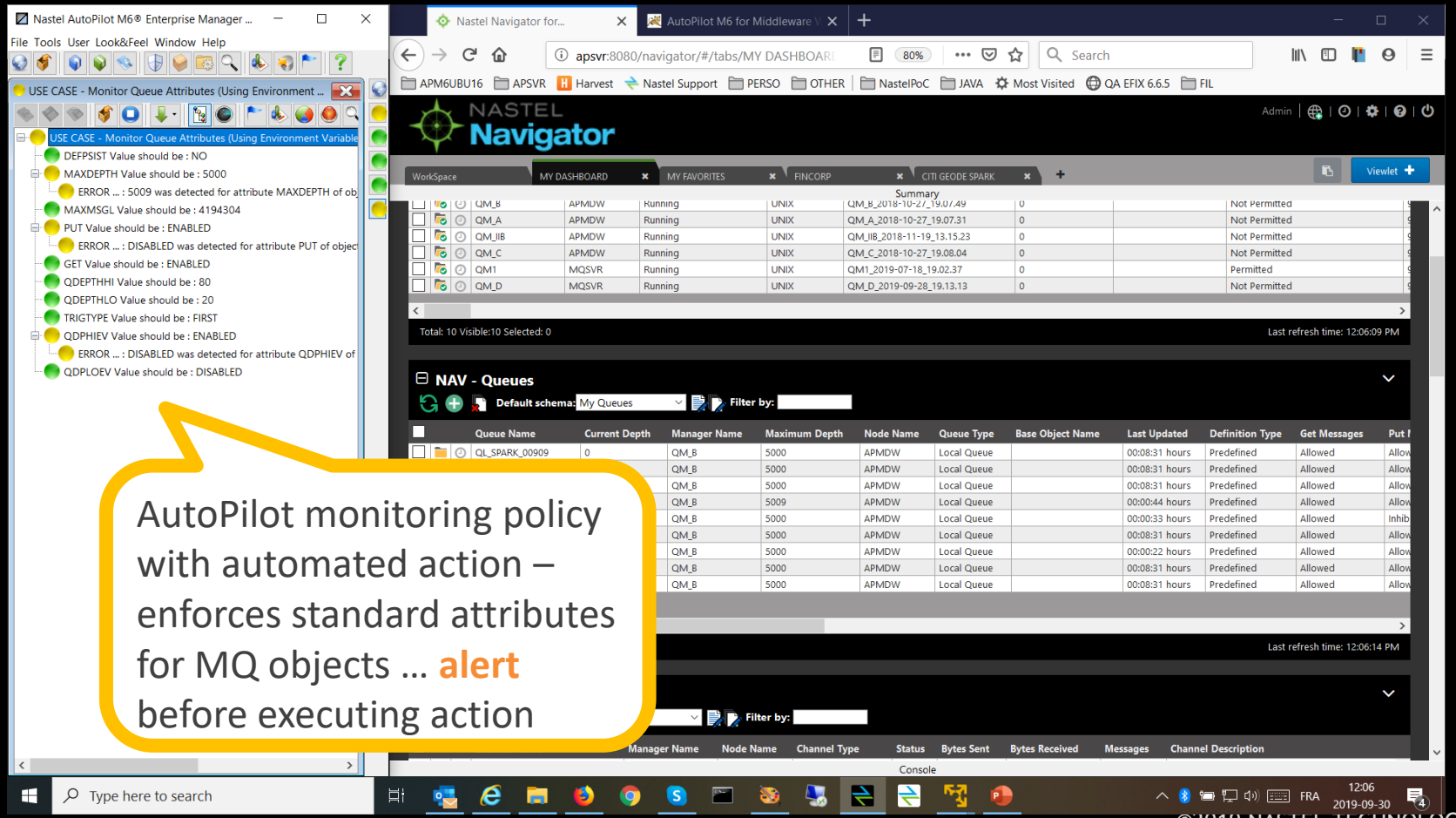
Nastel AutoPilot : Monitoring of multi-instance MQ Qmgrs



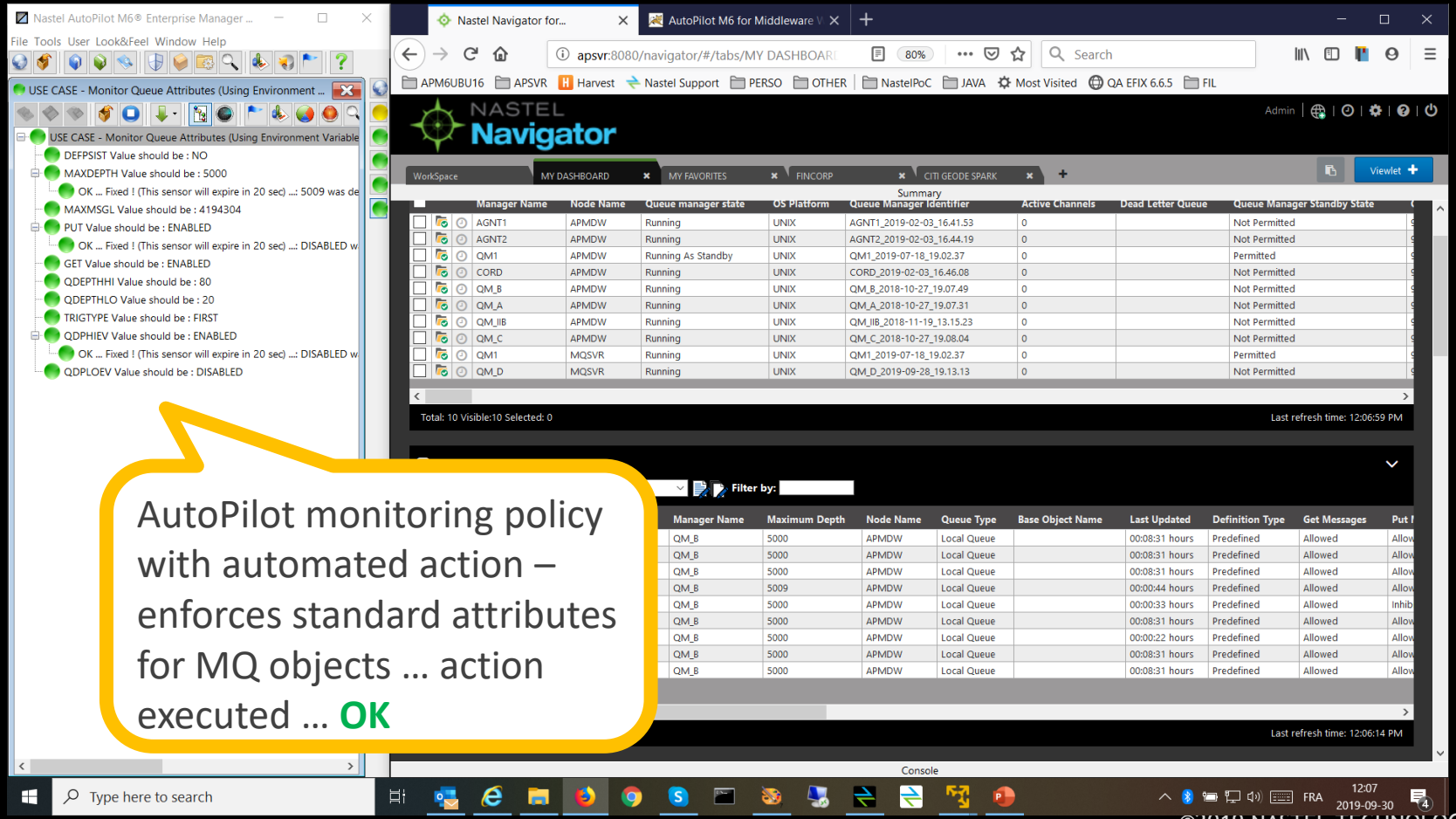
Nastel AutoPilot : Monitoring of multi-instance MQ Qmgrs



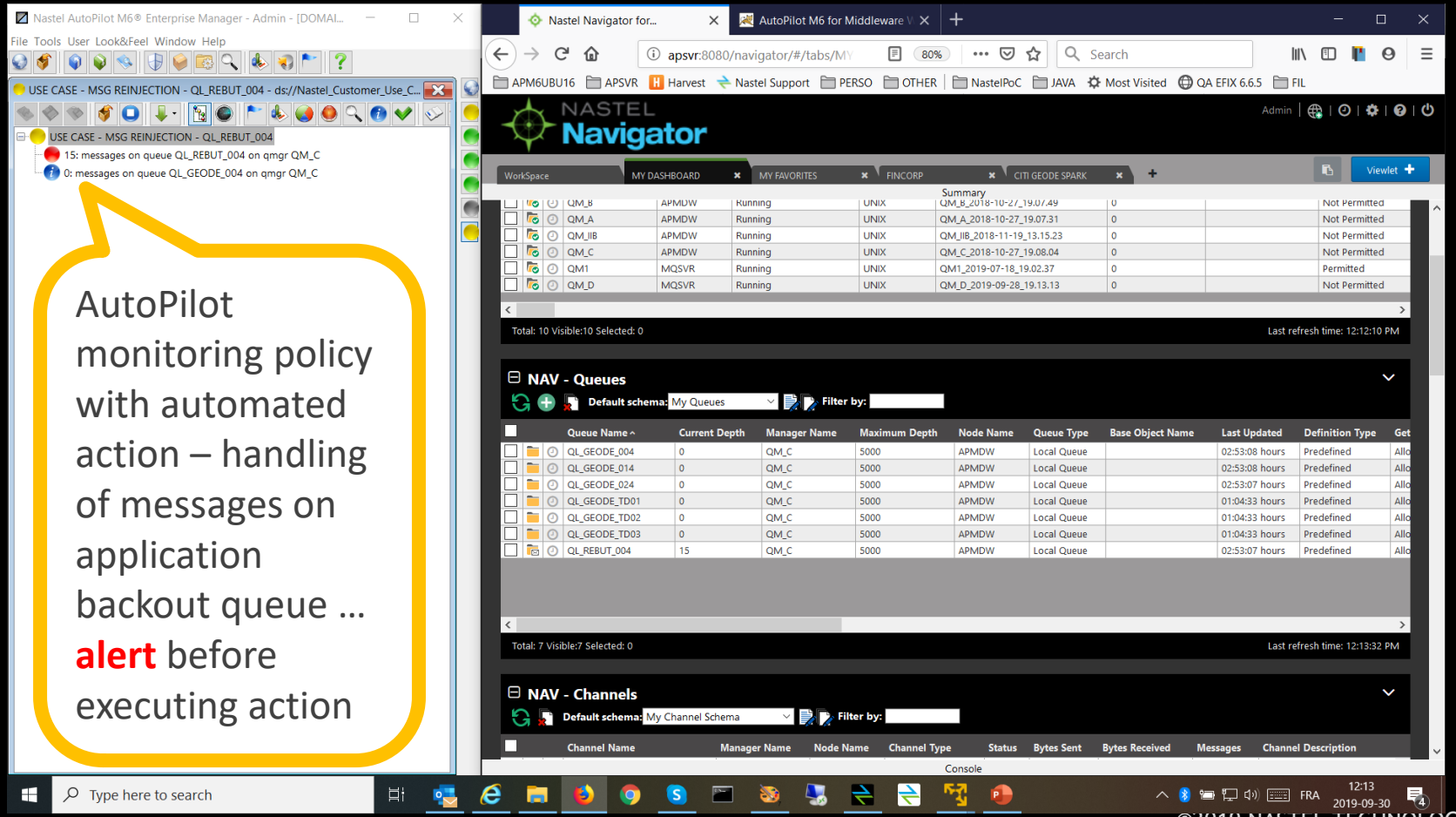
Nastel AutoPilot : Monitoring dashboards with automated actions



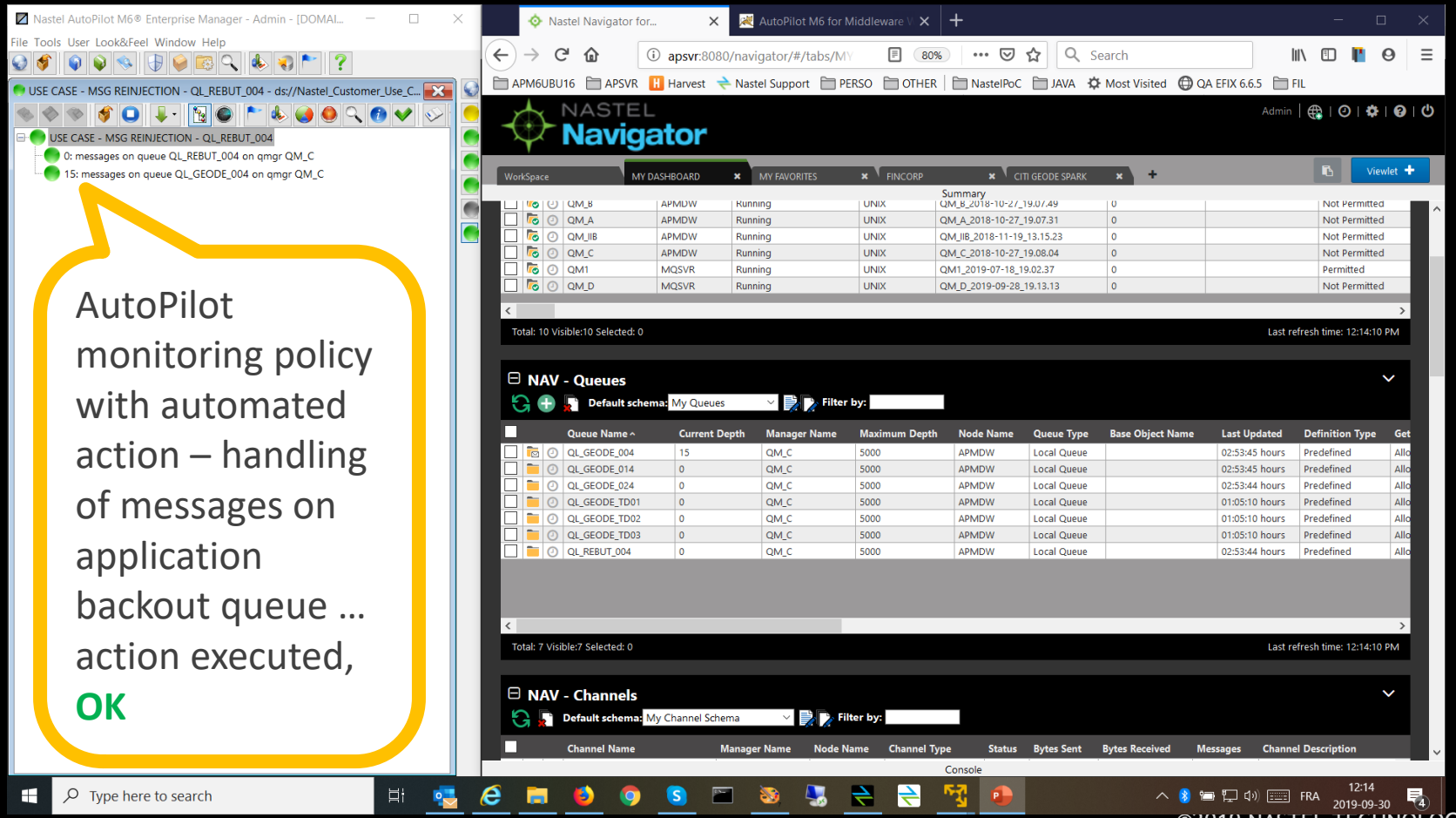
Nastel AutoPilot : Monitoring dashboards with automated actions



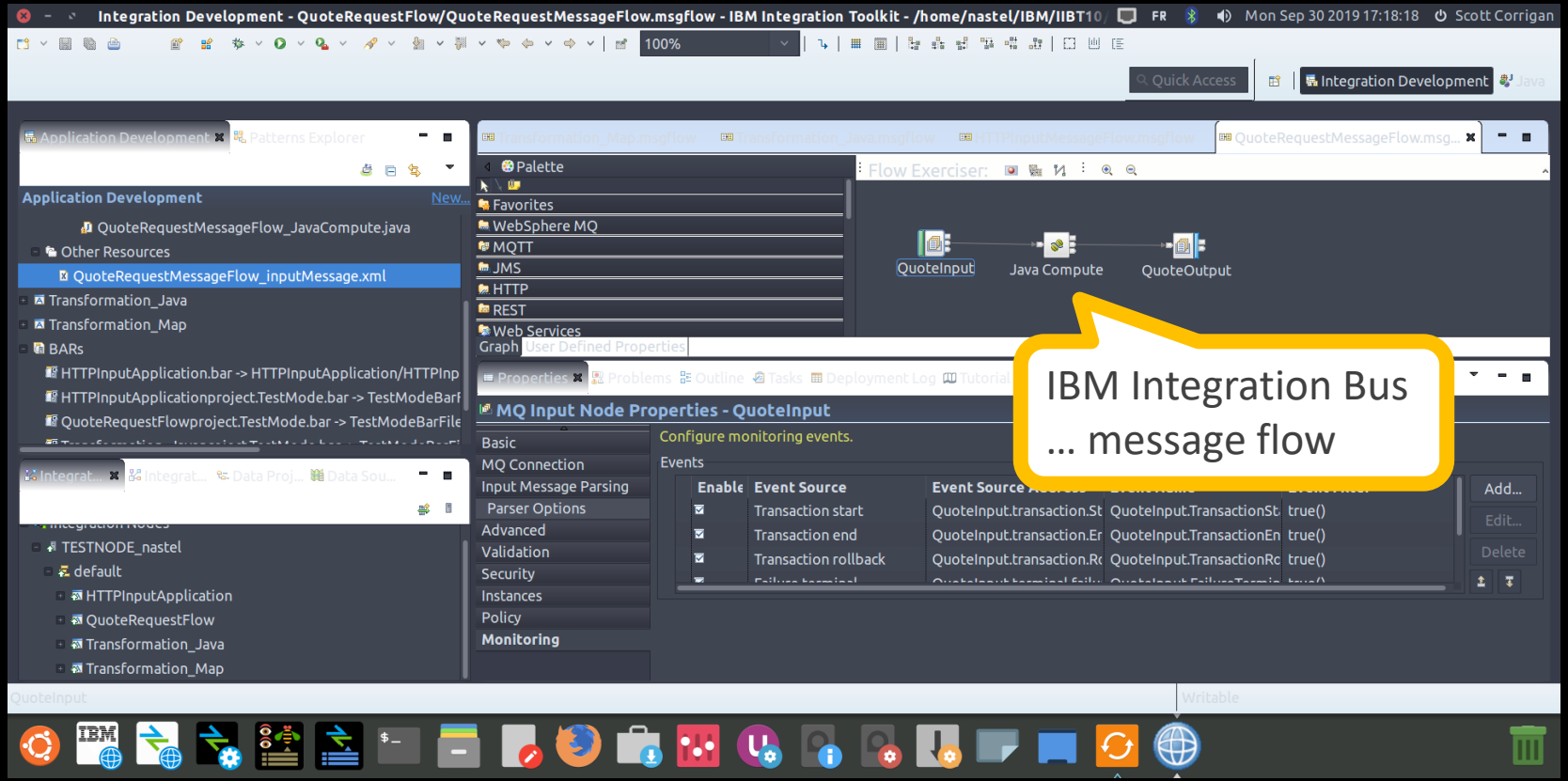
Nastel AutoPilot : Monitoring dashboards with automated actions



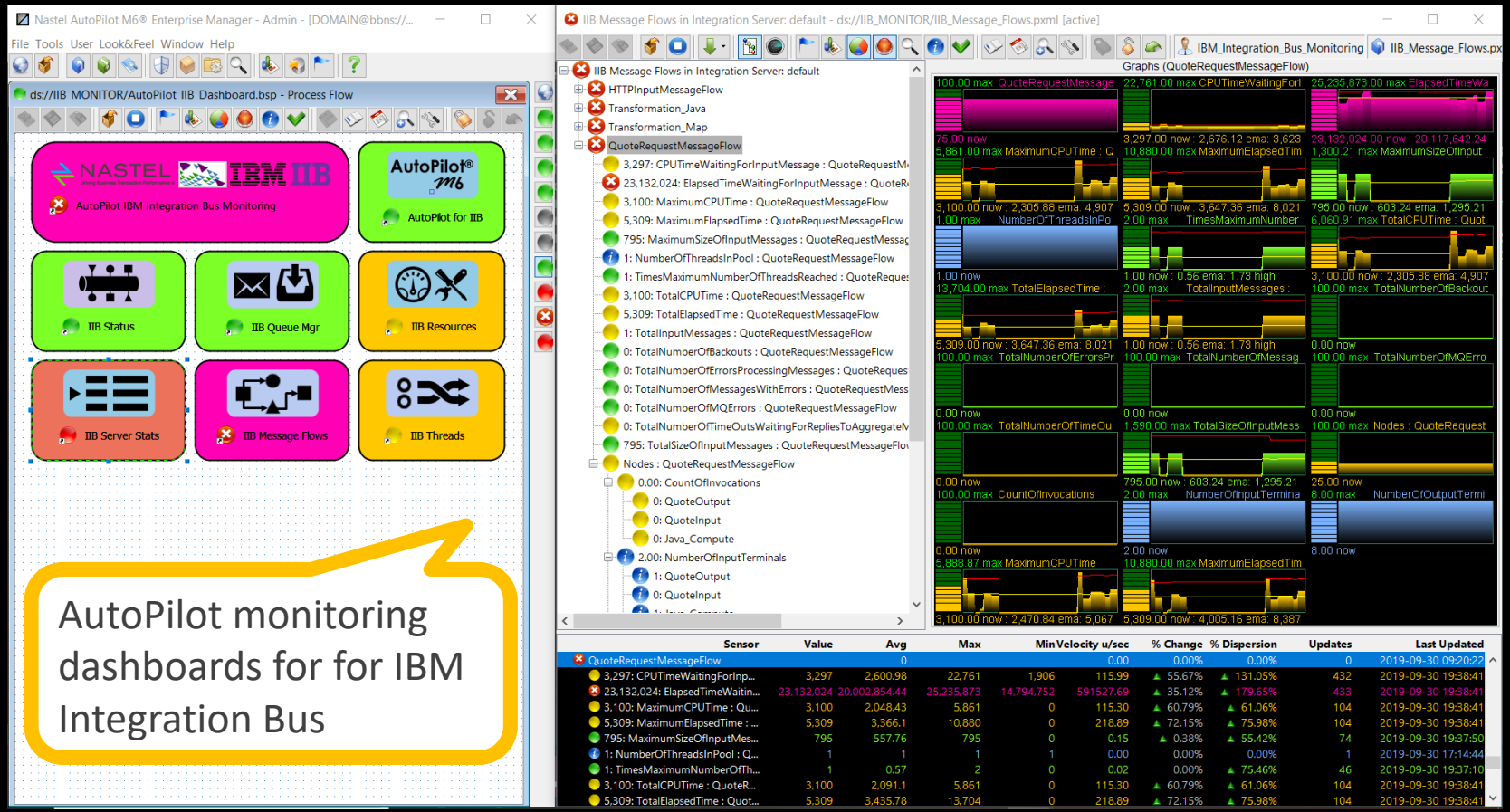
Nastel AutoPilot : Monitoring dashboards with automated actions



Nastel AutoPilot : IIB Monitoring



Nastel AutoPilot : IIB Monitoring

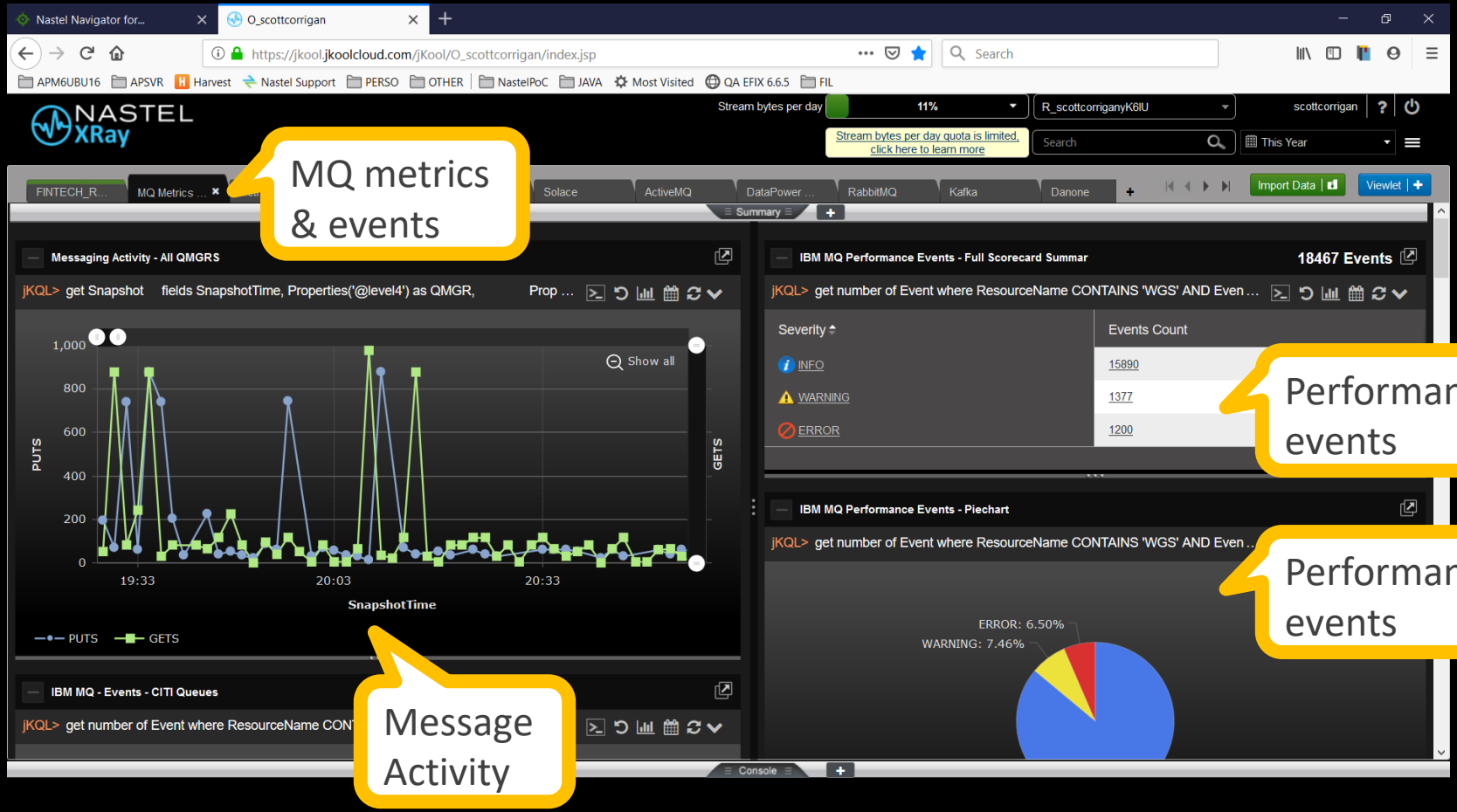


Selected Demo Scenarios

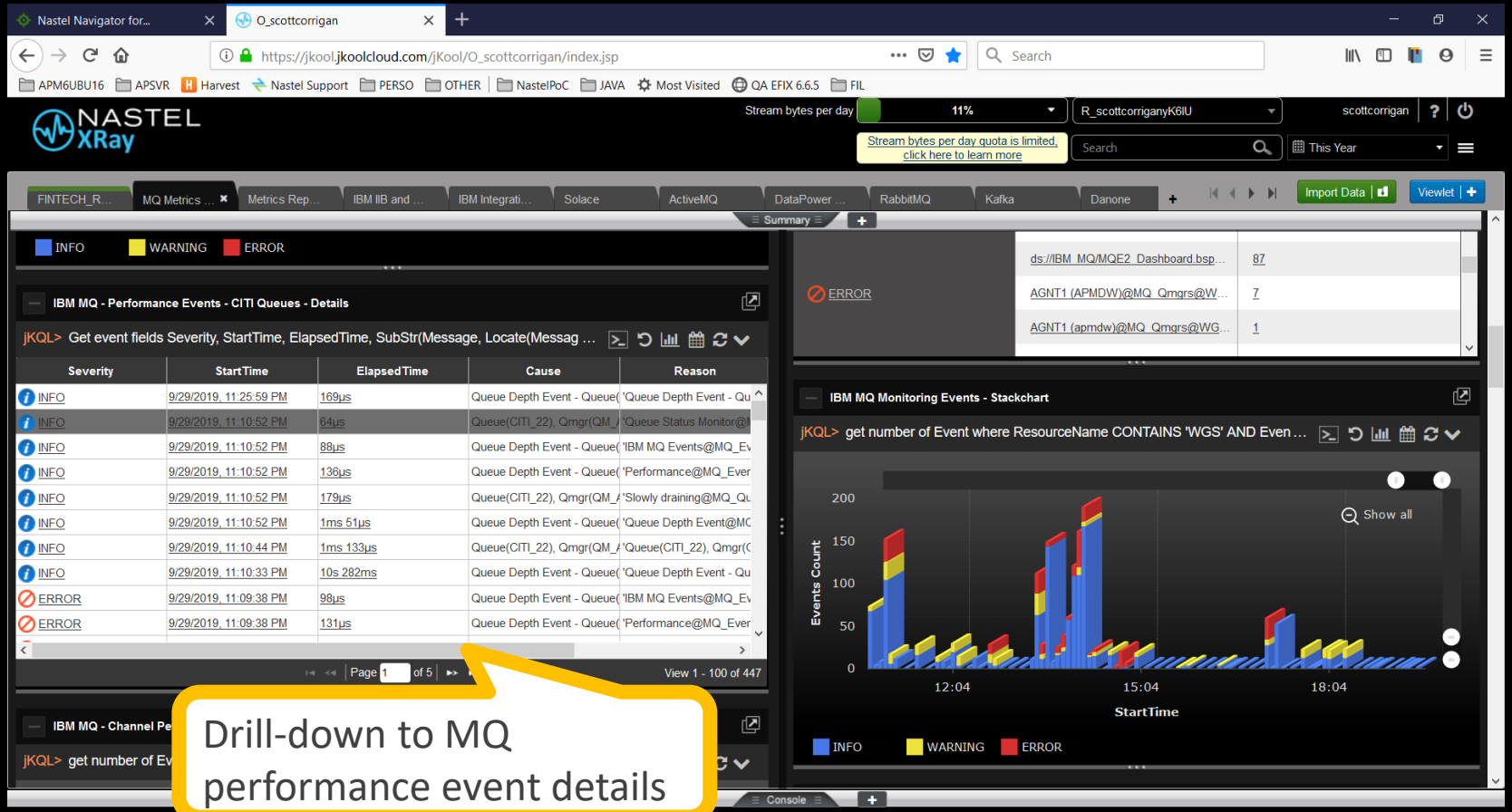
Nastel Overview prepared for

Guide Share France
01 October 2019

Nastel XRay : IBM MQ Analytics

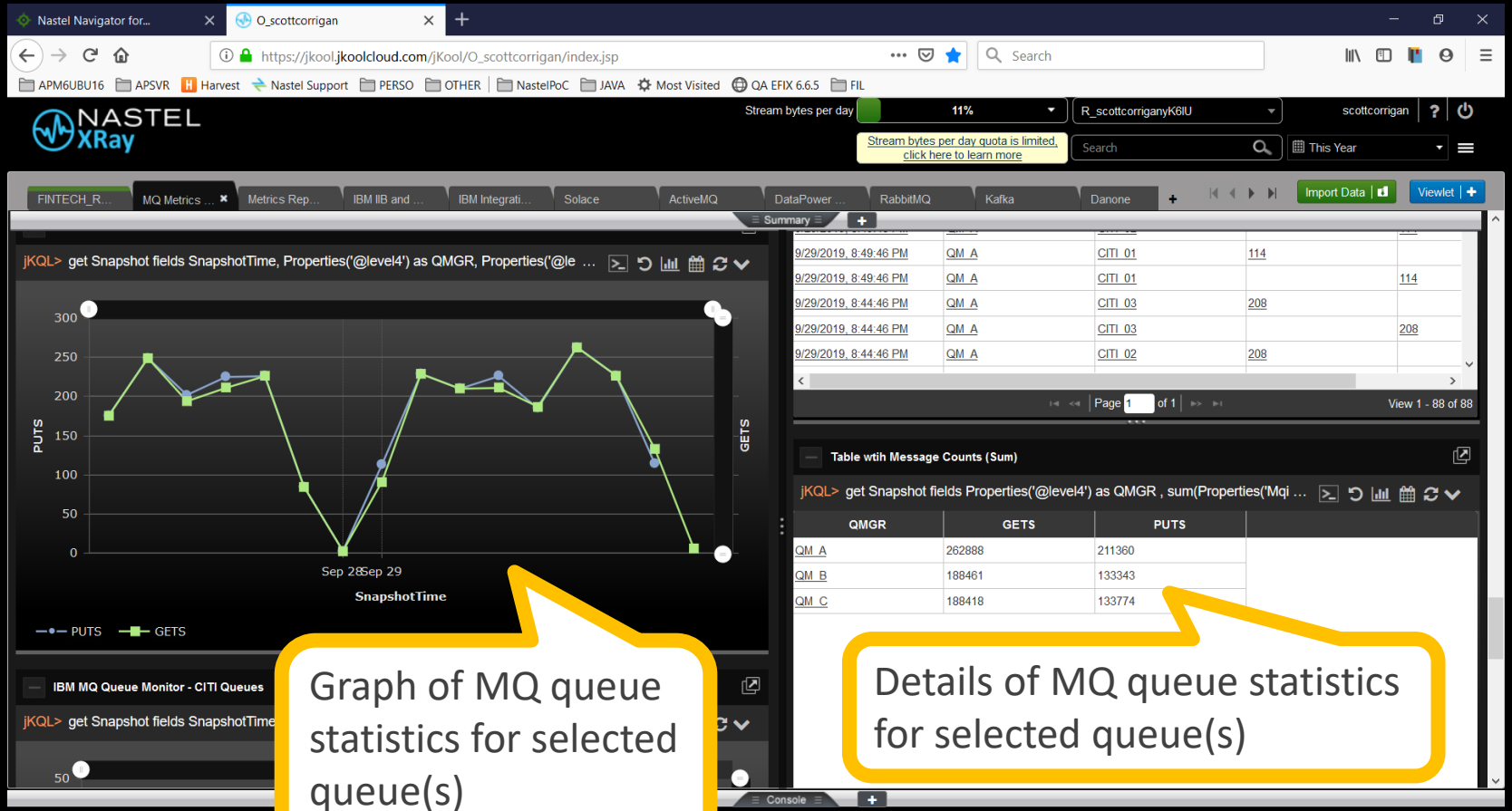


Nastel XRay : IBM MQ Analytics



Drill-down to MQ performance event details

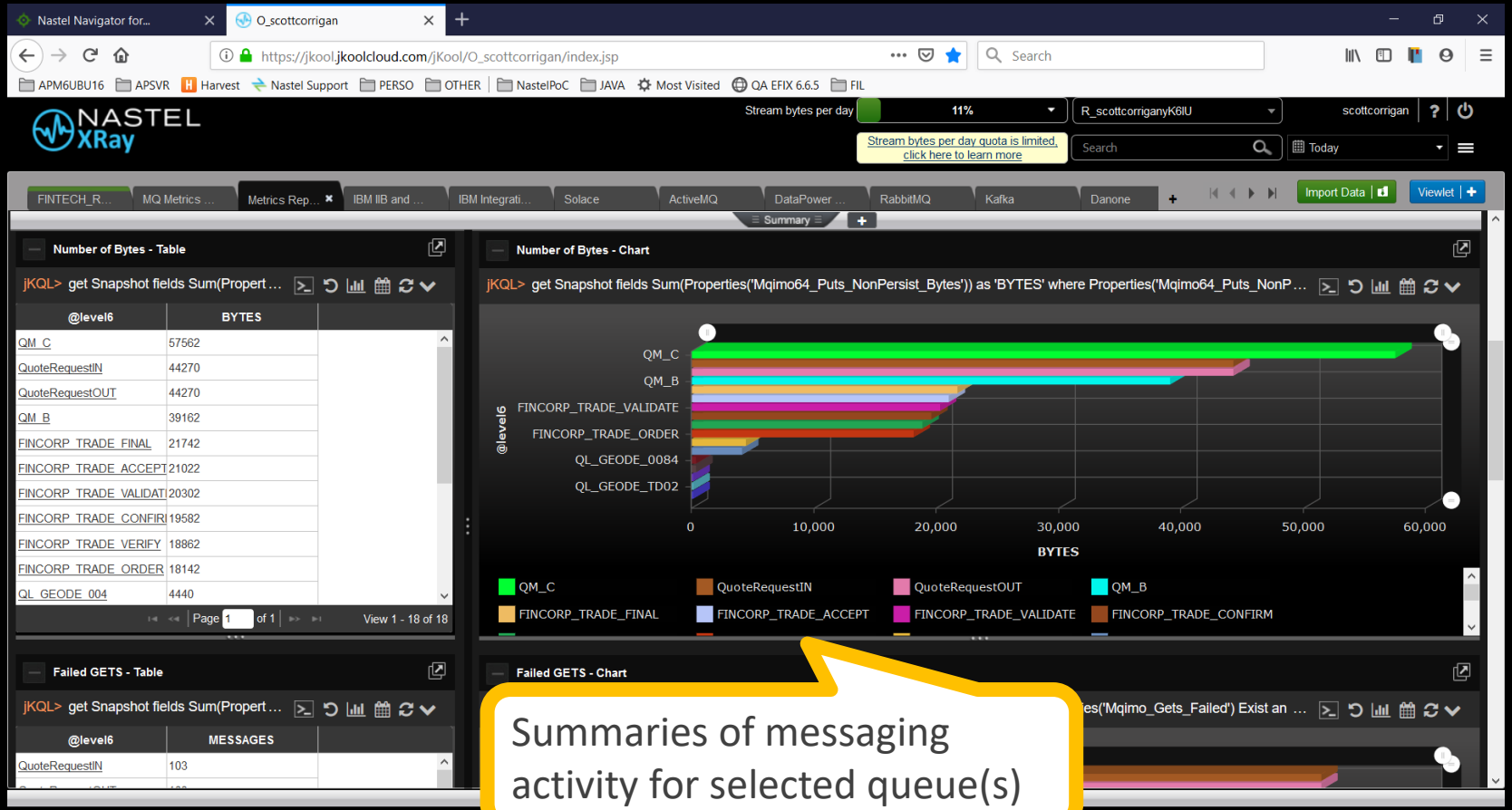
Nastel XRay : IBM MQ Analytics



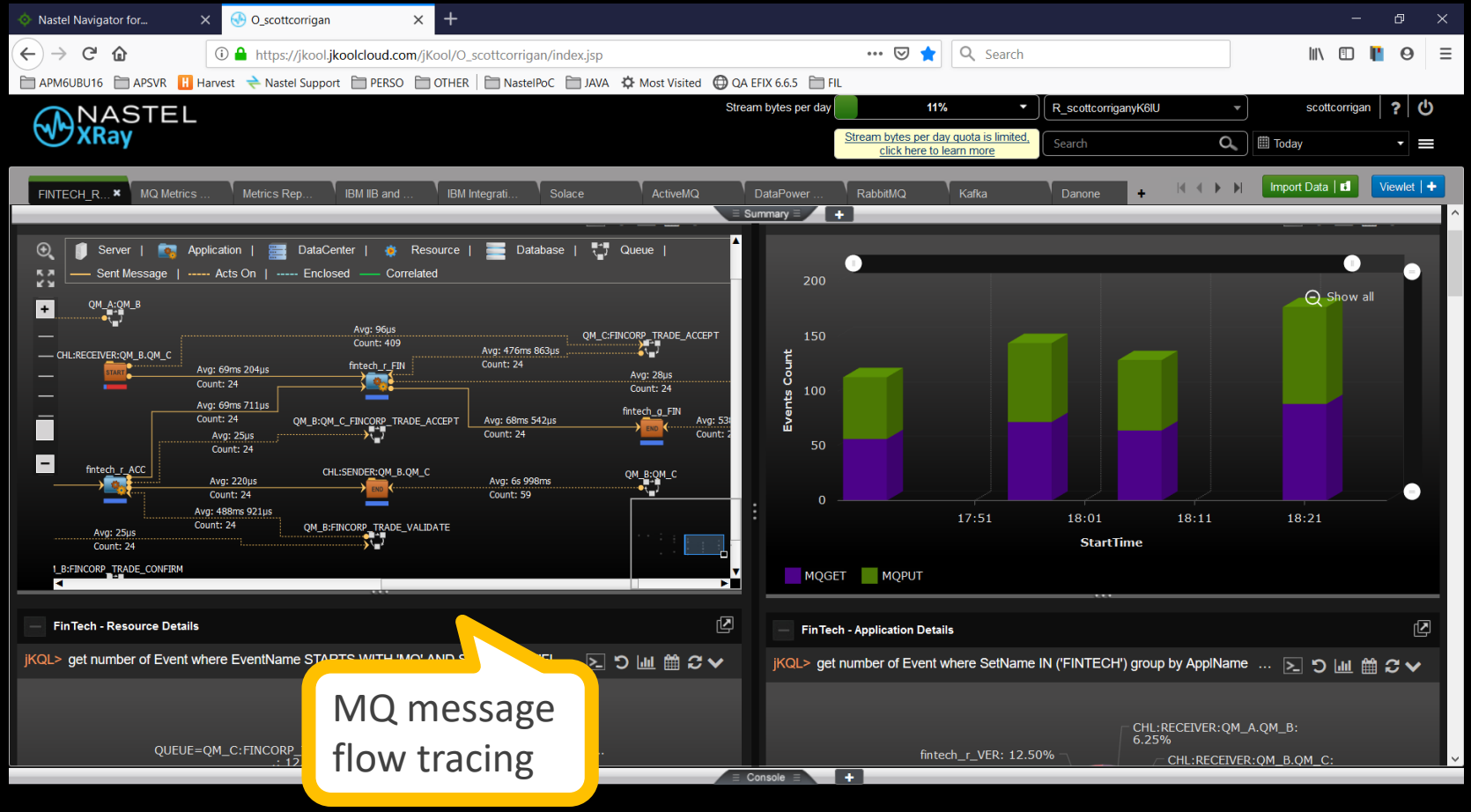
Graph of MQ queue statistics for selected queue(s)

Details of MQ queue statistics for selected queue(s)

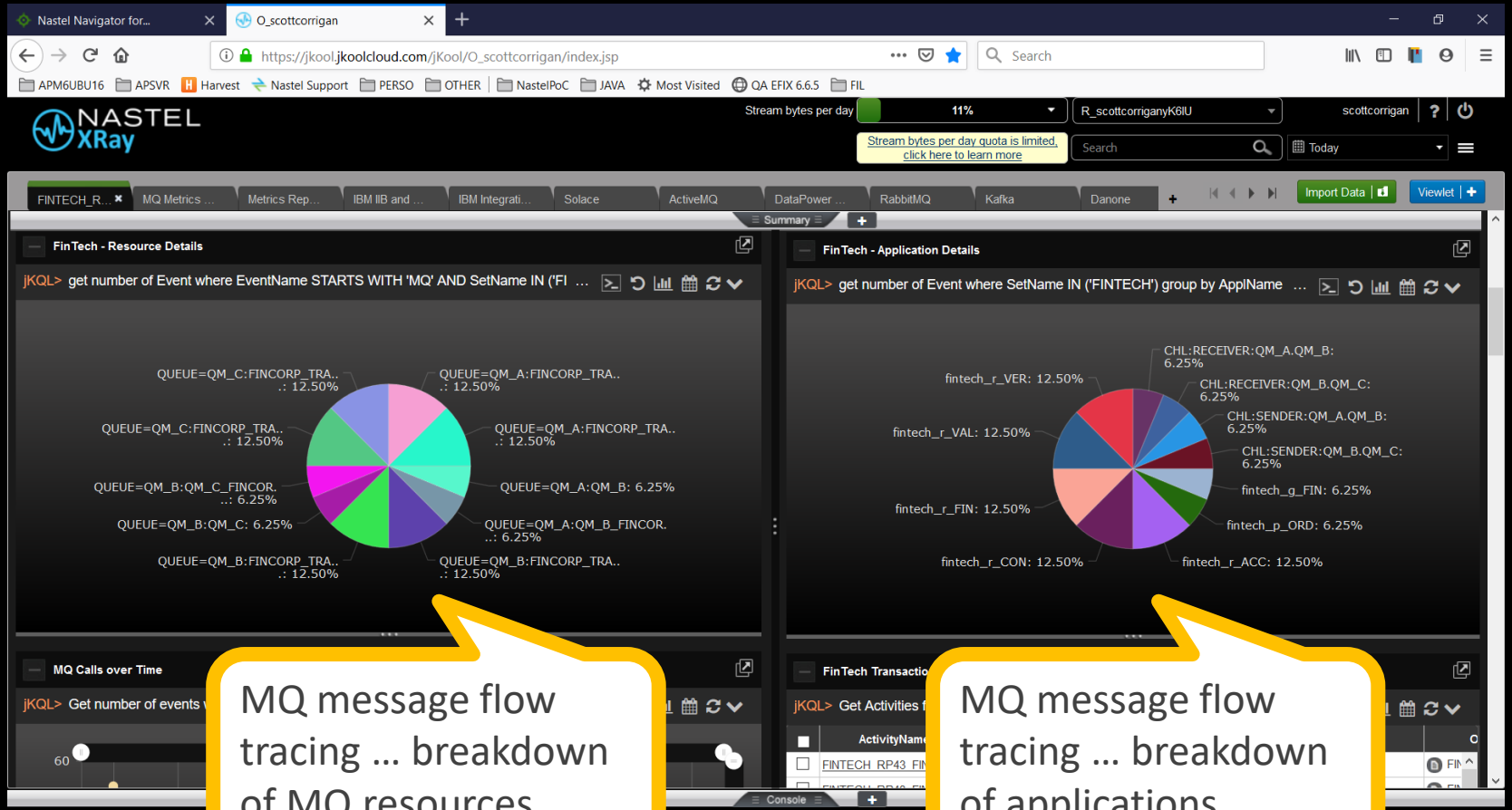
Nastel XRay : IBM MQ Analytics



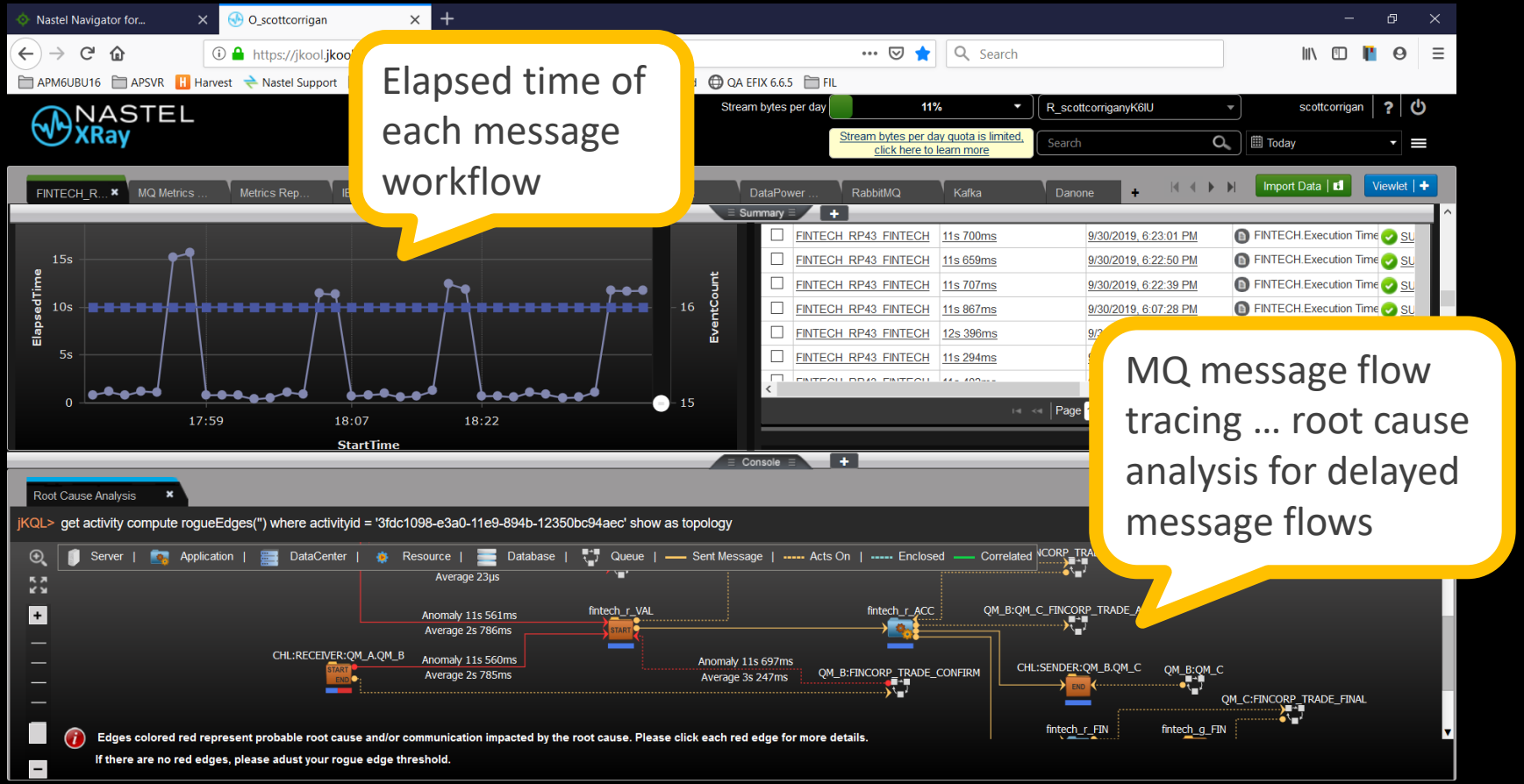
Nastel XRay : IBM MQ Message Flow Tracing



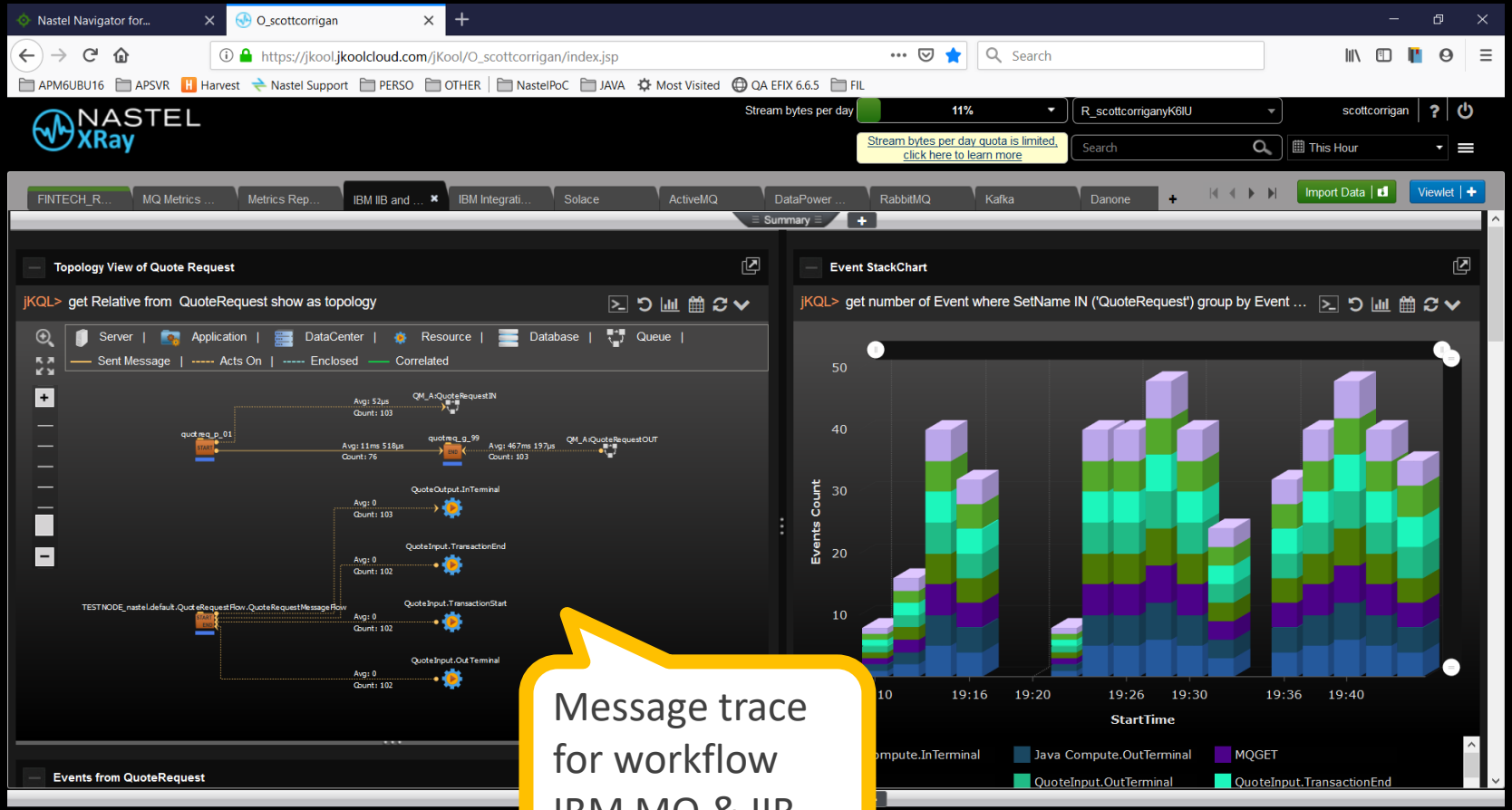
Nastel XRay : IBM MQ Message Flow Tracing



Nastel XRay : IBM MQ Message Flow Tracing



Nastel XRay : Message Flow Tracing – IIB & IBM MQ



Message trace for workflow IBM MQ & IIB

Nastel XRay : Message Flow Tracing – IIB & IBM MQ