



Network Configuration Management Network Management

Situation: A Network Operator Makes a Change

- A network operator makes a change to the configuration of a network device but may not have thought to reflect that change in the configuration management database CMDB.
- A monitoring Syslog service like Solarwinds, ELK Stack or Splunk would capture and log the change but not perform any CMDB query to ensure consistency.
- Over a period of time a "Configuration Drift" will develop whereby the actual configuration of various network devices and the CMDB configuration data will differ.
- Ultimately, there are potentially serious security and compliance risks introduced by an accumulating "Configuration Drift" in the absence of a more automated approach to ensuring the actual and intended configurations are accurately reflected in the CMDB.

Composer Benefits



Increased network security: All network devices are automatically kept in compliance with security policies and best practices, reducing risks and costs while saving time.



Full audit visibility: The full scope of device config changes are captured along with operator interventions to ensure audit visibility and policy compliance.



Reduced troubleshooting time: With real-time awareness of changes in device configurations, operators no longer need to invest time searching for the source of config changes.

Manual Change Management

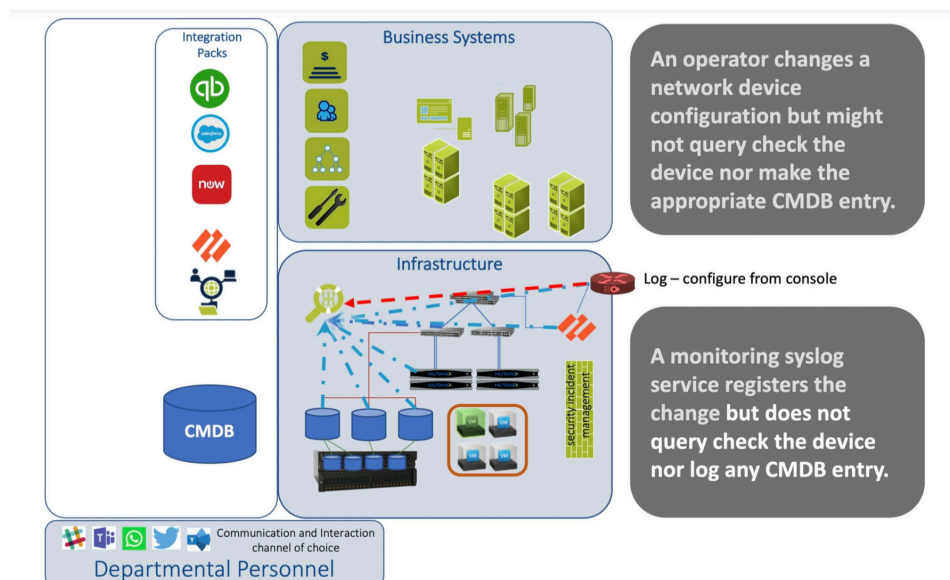


FIGURE 1: Manual Configuration Change Management



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Orchestral.ai's Composer Solution

Orchestral.ai provides a completely automated solution to this problem. Orchestral Composer's event-driven architecture can automatically execute a "Configuration Drift" workflow in response to the "event" of a change in the configuration of a network device. Composer's event-driven architecture ensures that any configuration change is captured and synchronized with the Configuration Management Database (CMDB) upon operator approval and in accordance with applicable policies.

Automated Change Management

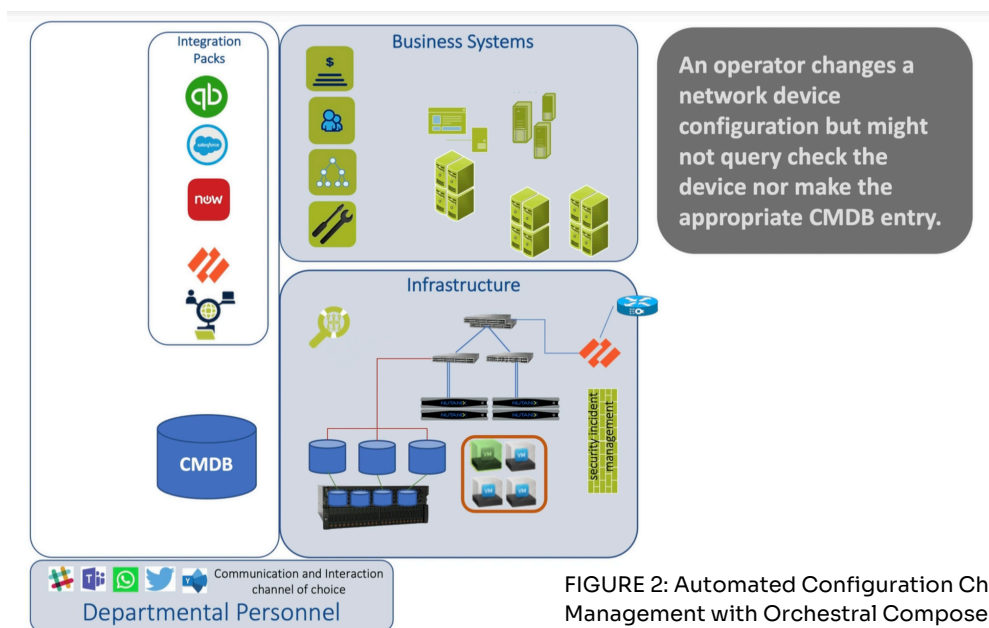


FIGURE 2: Automated Configuration Change Management with Orchestral Composer

Composer Automated Change Management

Composer monitors Syslog services like SolarWinds, ELK Stack, or Splunk for configuration changes. When a change is detected, it triggers a "Config Drift" workflow, querying the Configuration Management Database (CMDB) for the stored configuration of the device. Composer then retrieves and compares the stored and running configurations, capturing the results for auditing. It notifies the operations team via ChatOps or email, allowing them to decide which configuration to retain. If the CMDB config is retained, a high-priority ITSM ticket is generated to restore it; if the changed config is kept, Composer updates the CMDB accordingly. The entire process is logged with an ITSM ticket.



Orchestral.ai
Conquer Complexity in Enterprise IT

Orchestral.ai is a team of like-minded technology professionals possessing a combined experience of over 100 years in the IT industry.

Contact Us: For more information, please contact our Client Development Team at info@orchestral.ai

About Us

Orchestral's mission is to enable IT infrastructure & operations teams to more effectively manage the complex mission critical processes that their organizations depend upon for day-to-day operations. We accomplish this today with the Orchestral Platform - an integrated suite of automation, orchestration and Explainable Artificial Intelligence (XAI) technologies designed to empower enterprises to start their transition toward Autonomous IT Infrastructure.