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# Helping a \$27 Billion Business **Upgrade its Network Management Capabilities**

Case Study



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## Case Study: **Upgrading Network Management Capabilities**

### **The Challenge**

A 100+ year old regional bank with over \$27 Billion in assets and more than 250 offices and 2800 employees needed help improving the security and scalability of their network infrastructure.

This bank has a well-qualified network-engineering group whose primary focus is day-to-day operations. They didn't have the time or specialized expertise to make rapid progress on modernization of their network management process and procedures. Traditional, manual approaches to network configuration and management were too slow and error-prone to effectively support the needs of a growing company with critical security requirements. Network automation, on the other hand, uses programmable logic to manage network resources and services securely and efficiently at any scale. **It was clear that automation was needed.**

The customer's network operations group chose Ansible as its automation platform but needed additional expertise to jump-start the initial phases of the project and mentor its engineers. They reached out directly to Red Hat and ITSCO was engaged through RedHat's partner network.



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### The Project

- /// Installation and configuration of AWX/Ansible/Red Hat Tower network automation infrastructure
- /// Integration with existing enterprise resource management system (SolarWinds)
- /// Development of use cases and playbooks to support network operations automation, including:
  - **DHCP reservation/lease management automation**
  - **Switch port security automation**
  - **ACL management automation**
  - **VLAN management automation**
  - **Network device upgrade and patching automation**



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### The Results

Deliverables were all met on-time and within budget:

- **A fully functional Ansible/Tower environment, integrated with its enterprise resource management system, to be used as a testbed for its network automation initiatives.**
- **A set of Templates and Playbooks to demonstrate core functionality of the platform and support further testing.**
- **Successful mentor ship of internal resources to take over testing, operation and extension of the system.**

*Due to the sensitive nature of this project, our client must remain anonymous. They were very pleased with the results, and they brought us back for an additional engagement several months later, to help with further development of Ansible network automation playbooks.*

