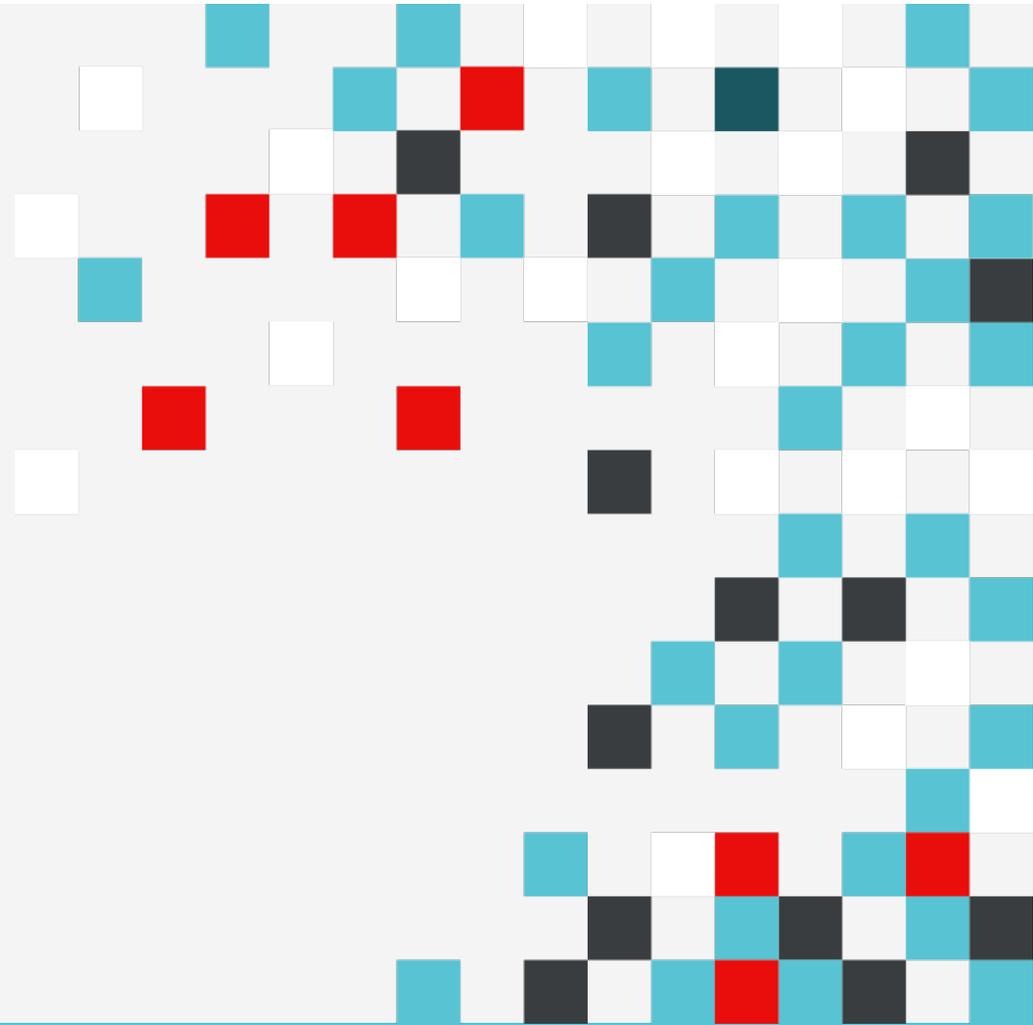


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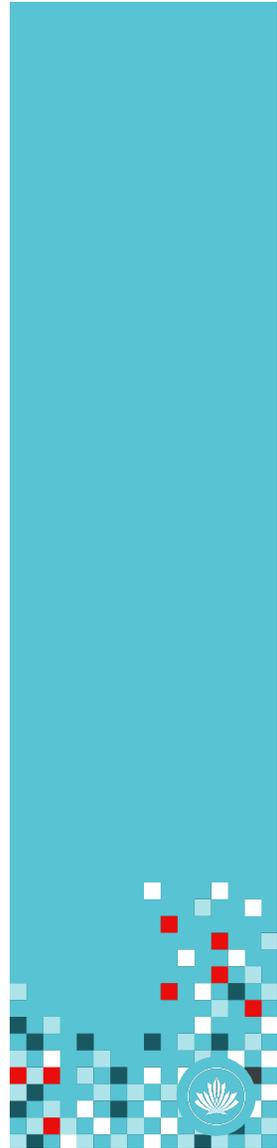


CANARIE Orchestration Update: TNC 2025



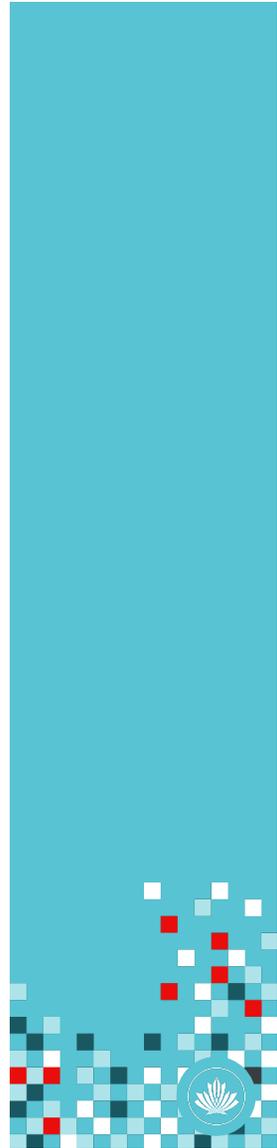
2024-2025 Proof of concept

- Environment
 - Helm Kubernetes deployment for Orchestrator, NSO and Netbox
 - Build, test and auto deployment pipeline for demonstration and acceptance testing
- Demonstration
 - Control of Nokia SR1 in lab environment
 - Implementation of workflows
 - Configuration of a BGP session with the production network and exchange of traffic



Current Workflows

- Node
 - Initial configuration read from Netbox
 - Update NSO
 - Write back to Netbox
- Port
 - Initial configuration read from Netbox
 - Update NSO
 - Write back to Netbox
- Service Edge
 - Combine existing subscriptions, IPAM in Netbox and user input to create a Service Edge
 - Configure an Interface in NSO
 - Configure an Interface in Netbox
- IP Service
 - Combine existing subscriptions, IPAM in Netbox and user input to create a BGP Session
 - Create BGP Session in NSO
 - Record BGP session in Netbox and link it interface and IPAM

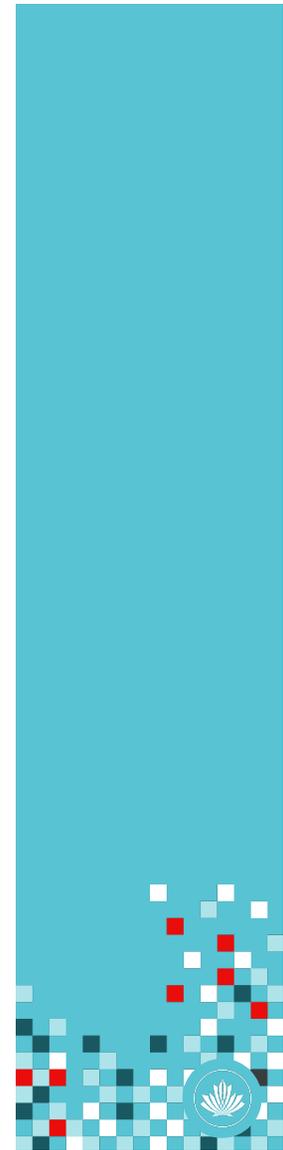


Demonstration

The screenshot displays the Workflow Orchestrator Local Network Orchestrator interface. At the top, the status 'Engine is RUNNING' is shown with a green checkmark and '0' errors. The main content area is titled 'Welcome' and features four summary cards:

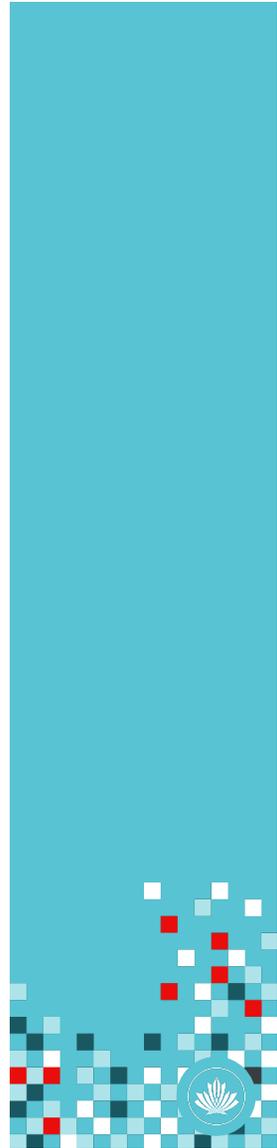
- Total active workflows: 0 (green checkmark icon)
- Total failed tasks: 0 (red X icon)
- Total active out-of-sync subscriptions: 0 (red X icon)
- Total active subscriptions: 0 (blue cube icon)

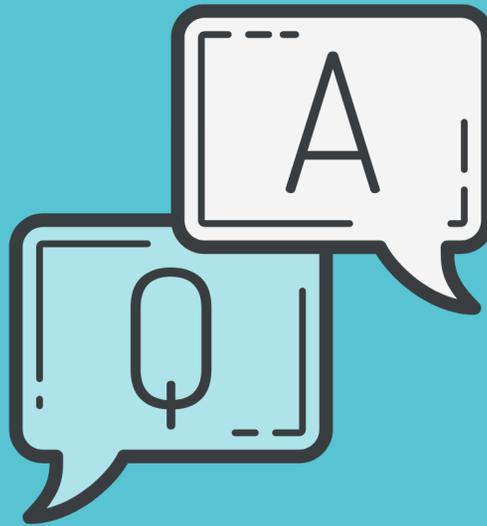
Below each summary card is a section for 'Most recent [active workflows / failed tasks]' which is currently empty. At the bottom of each section is a button to 'Show all [active workflows / failed tasks]'. A sidebar on the left contains navigation links: '+ New subscription', 'Start', 'Subscriptions', 'Workflows', 'Tasks', 'Metadata', 'Settings', and 'Example form'. The footer includes the copyright notice '© 2025 - workfloworchestrator.org'.



Next steps 2025-2030

- Production deployment planning
- Planning a roadmap for our current mandate including:
 - Consistent automatic naming
 - SAP, Service Names and Descriptions
 - L2VPN
 - Client services
 - Common Config







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