

## A NEW APPROACH TO NETWORK INFRASTRUCTURE AUTOMATION

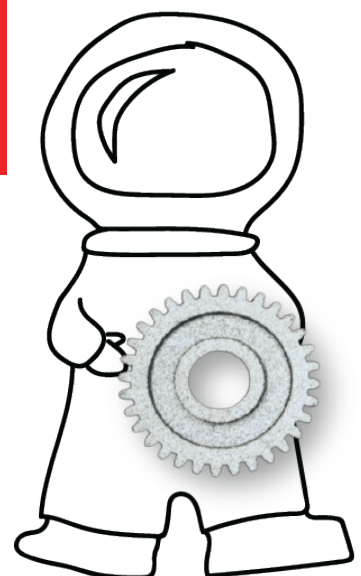
Soitronaut is a modern, modular tool for network infrastructure automation that transforms complex manual configuration into a fast and error-free process. It can automatically deploy changes and ensure compliance with standards and policies. It provides maximum control over the network configuration process, whilst saving the preparation and execution time.

### HOW DOES SOITRONAUT WORK?

Soitronaut is not merely a single piece of software, but a combination of proven open-source tools and Soitron's unique expertise. It operates on the **Infrastructure as Code (IaC)** principle, meaning you define the target infrastructure using code. When required, you simply define a change and Soitronaut ensures it is correctly and securely applied across all affected devices.

### WHO IS SOITRONAUT SUITABLE FOR?

You don't need to own a data centre. Soitronaut can manage infrastructure in the cloud, in a local data centre, a remote branch or head office, across a WAN network, or any combination thereof. Complexity is welcome: the more complex your IT infrastructure services, the more branches, users, and network elements you have, the greater the benefit you'll experience.



# NETWORK AUTOMATION

## WHAT TECHNOLOGY DOES SOITRONAUT RUN ON?

Soitronaut is built on the open-source tool Ansible and utilises modern approaches such as GitOps. It supports both imperative and – preferred in NetOps environments – declarative configuration, enabling faster and safer deployment throughout the infrastructure lifecycle. One of the essential features is its modular design, distributed as a Docker container. The chosen architecture allows for high expansion flexibility, and simplifies updates and support.

## WHAT CAN SOITRONAUT AUTOMATE?

- Network elements: Routers, Switches
- Security: Firewalls, VPN concentrators, password and certificate management (KMS)
- Application services: Load balancers, DNS servers

We support a broad range of technologies from various vendors: Cisco ACI, Cisco FTD, Cisco DCNM/NDFC, Cisco IOS XR, F5 LTM, F5 NW, F5 DNS, Juniper SXR FW, Ivanti ISA.

We are continuously working to add further technologies in line with our customers' needs.



## KEY FEATURES OF SOITRONAUT


- ➔ Powerful on-premise NetOps platform built on a modular Docker architecture.
- ➔ Supports manual CLI operations or fully automated CI/CD pipelines.
- ➔ Python-based framework integrating Ansible and / or direct API calls.
- ➔ Integrates one or more Sources of Truth (Git / NetBox).
- ➔ Protects sensitive data with enterprise-grade security using HashiCorp Vault.
- ➔ Provides comprehensive end-to-end automation – from user interfaces to network infrastructure.



## KEY ENTERPRISE BENEFITS

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**Simplified interface (Custom UI)**  
 Eliminates the need for in-depth coding knowledge for everyday administrators. The interface is designed to be intuitive and accessible to a broader range of staff.
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**Abstraction of technological complexity**  
 All technical complexity and automation logic is safely hidden in the background. The user interacts only with the resulting functional interface.
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**Single Source of Truth (SoT)**  
 Utilises native integration with NetBox. This approach guarantees that current data in the database and the planned state of infrastructure are always 100% aligned with the actual network reality.
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**Deterministic GitOps approach**  
 Every configuration is generated and stored in Git prior to deployment. This process is fully predictable and free from random errors.
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**Auditability and instant rollback**  
 Thanks to Git versioning, a complete change history (audit trail) is available at all times. Should the need arise, the system enables an immediate return to a previous state.
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**Vendor agnosticism (Independence)**  
 Enables effective automation of complex scenarios even for devices where traditional vendor support reaches its limits. The solution is fully functional for: Cisco ACI, F5, FTD/FMC, and others..

## HOW DOES AUTOMATION WORK IN PRACTICE?

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**Analysis and design**  
 Mapping the current state of the infrastructure, defining areas suitable for automation deployment, including the scope of deployment and degree of integration (Git, ADO, NRM, Vault). Preparation and description of business logic and configuration logic for the data preparation phase.
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**Data preparation**  
 Creating a Single Source of Truth for inventory and configurations. Preparation of configuration templates and scripts.
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**Implementation and testing**  
 Deployment of automation scripts in a secure environment.
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**Monitoring and optimisation**  
 Updating components, modifying configurations as required, refining processes.





## WHY AUTOMATE NETWORK INFRASTRUCTURE WITH SOITRON?



### Decades of experience

We have been a leader in network technologies for over 35 years.



### No ties to a single vendor

This is a multi-vendor automation tool that operates in mixed environments.



### Proven in practice

Soitronaut was created in 2019 from the real-world needs of our customers and continues to develop to this day..



### Simple deployment and management

Modular design distributed as a Docker container. Easy extensibility, updates, and support.



### End-to-end support

From initial analysis to long-term service and development of your automation.

## SOITRON, člen skupiny SOITRON Group

Soitron is a Central European integrator operating in the IT market since 1991. The company's philosophy is to constantly move forward, and that is why it is a leader in implementing unique technologies and innovative solutions. It offers its clients products and services in the field of network and communication solutions, cybersecurity, data centres, IT outsourcing, IT support and advisory. Its product portfolio includes smart police car solutions – Mosy and cybersecurity services – void SOC (Security Operations Center).

Soitron is a part of the Soitron Group and employs more than 800 international experts. The group brings together professional teams in Slovakia, the Czech Republic, Romania, Turkey, Bulgaria, Poland, and the UK