



# AUTOMATION FOR NETWORK INFRASTRUCTURE

Innovate your infrastructure to build reliable networks

Mastech InfoTrellis offers several Managed Services solutions as part of its Data Management family of offerings to operate and manage complex technology solutions in the Cloud or on-premise.

## Mastech InfoTrellis Professional Services

Managing networks hasn't changed in 30 years. However, you can now automate the deployment and management of your entire IT footprint!

Mastech InfoTrellis specializes in DevOps and Automation initiatives and can deploy resources that can take your networks to the next level. We eliminate the redundant tasks so that your teams can be more efficient and focus on the important projects meaningful to your business.

You Can:

### Do This

- Orchestration
- Configuration Management
- Application Deployment
- Provisioning
- Continuous Delivery
- Security and Compliance

### On These

- Firewalls
- Load Balancers
- Applications
- Containers
- Storage
- Network Devices
- Clouds
- Servers
- Infrastructure

Our resources make everything possible — they can be Network Engineers or Network Operators that write the Ansible playbooks and then feed them into the Ansible Automation Engine for execution, which contain four key subsystems:

**Inventory**

An inventory is a collection of endpoints being managed. As long as the instances can be connected via an API, SSH, or WinRM, they can be managed by Ansible's inventory.

**Modules**

Modules are an integral piece for network infrastructure enablement – modules control system resources, services, packages, files, or handle executing system commands.

**API**

This is the internal python API for Ansible, which is used to support the Ansible command-line tools and not intended for direct consumption.

**Plugins**

Plugins are pieces of code that augment Ansible's core functionality.

**APPLICATION CENTRIC NETWORK AUTOMATION**  
Automate network devices in support of applications  
Direct support to a device and controller-based virtualization

**OPERATIONS CENTRIC NETWORK AUTOMATION**  
Build and push device configurations  
Automate tactical operations on network devices

**CLOUD CENTRIC NETWORK AUTOMATION**  
Describe and deploy network connectivity between clouds  
Support public/private and/or public/public clouds

## Why Ansible?

### SIMPLE

- Human readable automation
- No special coding skills needed
- Tasks executed in order
- Get productive quickly

### POWERFUL

- Image updates
- Configuration management
- Compliance
- Orchestrate the network lifecycle

### AGENTLESS

- Agentless architecture
- Uses OpenSSH & WinRM
- No agents to exploit or update
- More efficient & more secure



Business Partner

## Benefits of the Ansible Tower

Build & manage dynamic inventory | Roles-based access control | Workflows | Ongoing Compliance | Running Playbooks at Scale | Restful API



Mastech InfoTrellis is the wholly-owned subsidiary of Mastech Digital (NYSE American: MHH), a leading provider of Digital Transformation IT services. We offer professional services across data management, data engineering, and data science. Mastech InfoTrellis has a global presence with offices spread across North America (US: Mastech InfoTrellis, Inc. and Canada: Mastech InfoTrellis Digital, Ltd.), India (InfoTrellis India Pvt. Ltd.), United Kingdom and Ireland (Mastech InfoTrellis, Inc.) and Singapore (Mastech InfoTrellis Pte. Ltd.).

### Get in touch

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