

# **Embrace Endless Possibilities with Ansible Automation**



## What Makes Ansible Automation the Ideal Solution?

---

In today's rapidly evolving business landscape, enterprises encounter a multitude of challenges in managing their IT infrastructure efficiently, securely, and at scale. The complexity of modern technology environments demands a solution that can streamline processes, enhance productivity, and empower organizations to focus on innovation. This is where the Red Hat Ansible Automation Platform steps in—a game-changing enterprise IT automation solution designed to address the intricate range of challenges that impede their efficiency, agility, and overall competitiveness.

- ▶ **Inefficiency and manual processes leading to time-consuming tasks and excessive resource usage**
- ▶ **Configuration disparities and operational instability**
- ▶ **Slow time-to-market due to hindered swift rollout of new services and products**
- ▶ **Increased Risk and Security Vulnerabilities**
- ▶ **Limited Scalability to accommodate growing infrastructure demands**

In the pursuit of digital transformation, enterprises encounter the need to optimize a diverse range of processes, from routine IT tasks to intricate cloud deployments. The Ansible Automation Platform serves as a comprehensive toolkit, underpinned by a robust framework, enabling organizations to seamlessly build, deploy, and manage automation across the entire infrastructure spectrum. According to an IDC analysis, utilizing Red Hat Ansible Automation resulted in a 667% ROI over 5 years for multiple organizations and a \$1.9 million boost in annual revenue. By offering a flexible and security-centric foundation, Ansible Automation Platform emerges as the answer to modern IT complexities, enabling enterprises to effectively navigate the intricate terrain of automation.

The core challenge that Ansible Automation Platform addresses is the imperative for enterprises to embrace automation at scale while maintaining stability, security, and operational excellence. As organizations invest time, money, and skilled labor into their automation plans, they need a solution that not only meets their current automation demands but also develops along with their trajectory of expansion. With the help of this platform, businesses can approach automation holistically, from the complex IT processes to the ever-changing cloud environments.

In this whitepaper, we delve into the pivotal reasons why Ansible Automation Platform has become the keystone of modern enterprise automation. We explore its unparalleled capabilities in driving efficiency, cost reduction, and innovation, thus propelling organizations to rise above the competition and steer towards sustained success. Join us as we uncover how Ansible Automation Platform redefines automation for enterprises, offering not just a tool, but a strategic advantage that opens up new horizons in operational excellence.

## Step into the Future of Ansible-powered Automation with hSenid Mobile

---

At hSenid Mobile, we specialize in harnessing the power of open source solutions, so you can focus on writing code for your next groundbreaking idea. Our expertise lies in maximizing the potential of the Red Hat technologies to address the complexities of deploying and managing applications in your environment. By joining forces with hSenid Mobile, organizations can unleash the full potential of investments in their processes, infrastructure, and architecture to compete in modern, fast-changing markets. hSenid Mobile offers you a comprehensive suite of services that streamline the design, build, run, and management of your infrastructure from inception to completion.

## Ansible: The language of DevOps

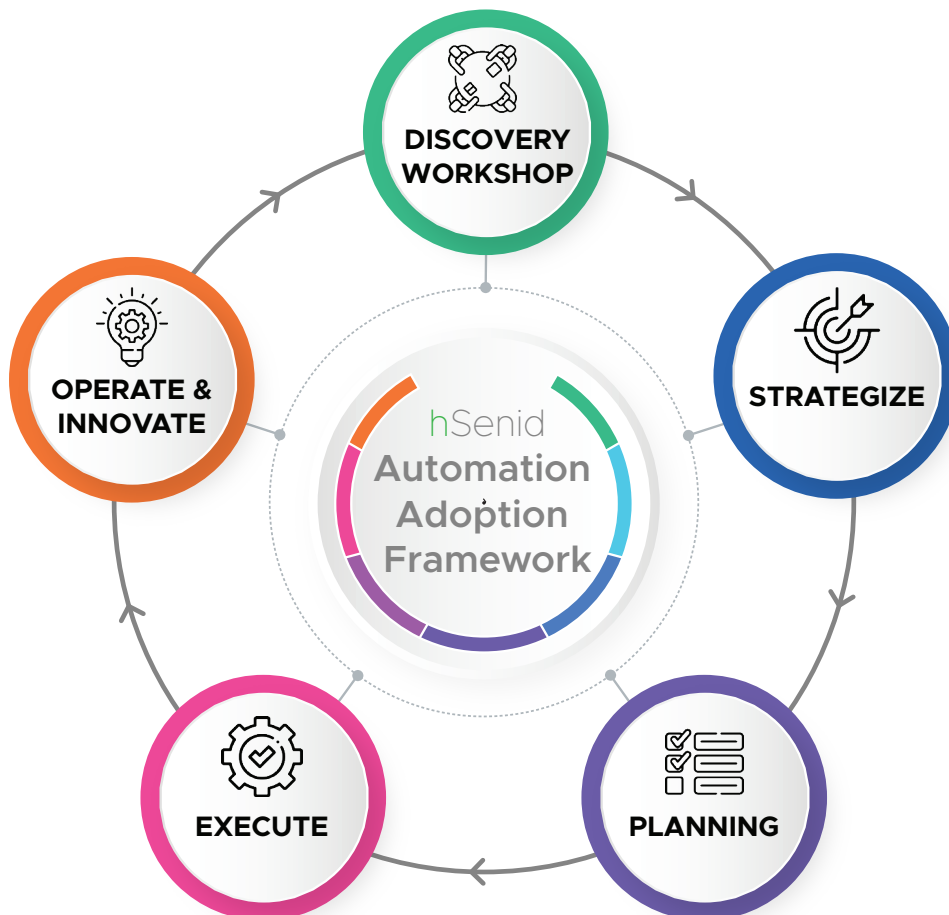
Ansible is an open-source automation tool used in DevOps practices for managing IT infrastructure. It is the first human-readable automation language that can be read and written across IT, making it simpler for DevOps teams to define the desired state of their infrastructure or applications using Ansible's declarative language (YAML) in Playbooks. Ansible provides you with a common language to describe your IT infrastructure, regardless of your position in the company or level of technicality. By simplifying tasks including repetitive tasks, provisioning, configuration management, deployment, and orchestration, Ansible automates application deployment and manages configurations across servers and network devices. No matter where you are on your IT modernization journey, an IT operations automation strategy stands as a pivotal tool to enhance your existing processes. In pursuit of this goal, hSenid Mobile offers the following comprehensive array of automation services intended to breathe life into your IT automation strategy:

- ▶ **Developing Automation Strategy**
- ▶ **Automation Assessment**
- ▶ **Design, Develop Playbooks and Implementation**
- ▶ **Automation as a Service**
- ▶ **Automation Migration**

## hSenid Automation Adoption Framework

hSenid Mobile's Automation Adoption Framework provides the guidance to develop its own tailor made strategy to achieve the desired automation-first approach to managing all of the infrastructure in an organization.

This framework sets the path with five major objectives;



- ▶ **Discovery Workshop:** Encompasses a series of targeted phases, meticulously crafted to foster strategic planning in the realm of automation, specifically leveraging Ansible solutions.
- ▶ **Strategize:** Assess our objectives and current maturity level, identify necessary automation enhancements, and establish a roadmap for growth.
- ▶ **Planning:** Chart the course for achieving targets by selecting between Ansible community and Ansible Platform, determining customizations required, and deciding on building or utilizing external automation collections.
- ▶ **Execute:** Implement Ansible Platform or Ansible community, build playbooks utilizing collections or internally developed ones, and orchestrate automation on target machines with proper inventories.
- ▶ **Operate & Innovate:** Revamp conventional methodologies through automated configuration, provisioning, and deployment of systems and workloads, while establishing standardized tools, processes, and governance for centralized management across the enterprise.

## Our Success Stories

 Project	 Ansible Components	 hSenid Approach	 Outcome Achieved
<b>Automation of a Deployment and Day 1 Operations of a NFV Platform</b>	<b>Ansible Community</b> <ul style="list-style-type: none"> <li>• Ansible custom collection and Roles</li> <li>• Ansible community provided roles</li> <li>• Ansible Playbooks</li> </ul>	<ul style="list-style-type: none"> <li>• Overall automation for design, planning, development and maintenance of hSenid Ansible Collection</li> <li>• Develop and maintain Ansible role for Openstack Security control implementation.</li> <li>• Deploy Ceph Clusters with Ansible.</li> </ul>	<ul style="list-style-type: none"> <li>• Streamlined the setup, configuration, and optimization of operating systems, established a standardized operational environment, deployed High-Availability Clusters, and effectively managed various aspects of the NFV platform.</li> <li>• Ensured enhanced security within the Openstack environment by implementing security controls through Ansible automation.</li> </ul>
<b>Automation of VNF provisioning in VNFM Platform</b>	<b>Ansible Community</b> <ul style="list-style-type: none"> <li>• Ansible custom collection and Roles</li> <li>• Ansible community provided roles</li> <li>• Ansible Playbooks</li> </ul>	<ul style="list-style-type: none"> <li>• Perform provisioning of Application Packages, OS configurations in VNF Instances, created by VNFM.</li> </ul>	<ul style="list-style-type: none"> <li>• Accelerated the provisioning of application packages and streamlined OS configurations within VNF instances, enhancing the speed and consistency of VNF deployments.</li> </ul>
<b>CIS Compliance configuration deployment</b>	<b>Ansible playbook for CIS remediation for RHEL and AlmaLinux</b>	<ul style="list-style-type: none"> <li>• Customization on the Official CIS remediation playbooks and perform remediation in the server nodes.</li> <li>• Using OpenSCAP to perform Validation.</li> </ul>	<ul style="list-style-type: none"> <li>• Improved security posture by adhering to industry-standard CIS security benchmarks, performing remediation on server nodes, and validating compliance using OpenSCAP.</li> </ul>
<b>Apply Vulnerability Assessment (VA) fixes</b>	<b>Ansible Playbooks</b>	<ul style="list-style-type: none"> <li>• Plan and develop ansible playbooks for applying VA fixes based on the VA fix recommendations.</li> </ul>	<ul style="list-style-type: none"> <li>• Enhanced system security by addressing vulnerabilities and maintaining a more secure computing environment.</li> </ul>
<b>hSenid Application Installer</b>	<b>Ansible Roles and Playbooks</b>	<ul style="list-style-type: none"> <li>• Design and develop the Ansible Role and Playbooks for deploy and manage application packages in target OS environments.</li> </ul>	<ul style="list-style-type: none"> <li>• Streamlined application deployment and management processes, allowing for efficient application package distribution and management across diverse OS environments.</li> </ul>

## Discover Our Extended Suite of Offerings

---

With exclusive insight into upcoming features and product roadmaps of Red Hat products, hSenid Mobile is better positioned to align teams, streamline processes, and make enterprise systems and applications work together using open source and proprietary technologies. hSenid Mobile's Red Hat consulting services use deep expertise in modern application development methodologies and technologies that leverage the power of cloud-based infrastructure to help you deliver applications quickly. We deliver a wide variety of services, including:

- ▶ **Architect, Deploy, and Upgrade for Red Hat OpenStack, OpenShift, and Virtualization**
- ▶ **Configure Red Hat Satellite deployment management capabilities.**
- ▶ **Red Hat Linux optimization and server hardening services**
- ▶ **CIS benchmark and remediation**
- ▶ **Red Hat Monitoring and Support**

## Experience the Difference

---

### 25+ Years of Hands-on Experience on Deployment

Unlock the full potential of your cloud services by leveraging our wealth of experience and expertise gained from over 25 years of successful engagements with diverse customers worldwide. Our experience encompasses all aspects of cloud service implementation, from planning and deployment to day-to-day operations. Whether it's your first project or one of many, hSenid Mobile, equipped with expertise in advanced open technologies, is capable of handling your most complex requirements.

### Flexible Planning

At hSenid Mobile, we go beyond just selling technology by offering a comprehensive approach that includes a tailored strategy based on our proprietary adoption frameworks. Our framework is equipped with proven guidance and best practices to ensure that you can confidently adopt the cloud and achieve your desired business outcomes.

### Certified Experts

At hSenid Mobile, we understand the importance of expertise and experience in delivering Red Hat solutions, which is why we have invested in certifying our engineers and resources, ensuring that our workforce not only possesses a thorough understanding of Red Hat guides but also has been officially recognized and certified by Red Hat. As a result, we have a certified workforce that can deliver and manage Red Hat solutions efficiently.

Our expertise is further validated by our status as a certified partner with Red Hat as an Advanced Red Hat Business and ISV Partner, which confirms our competencies in delivering and managing Red Hat solutions. As a demonstration of their confidence in our capabilities, Red Hat entrusts hSenid Mobile with the responsibility of efficiently managing and upgrading their systems.



In addition to adhering to Red Hat guidelines, hSenid Mobile also has hands-on expertise in successfully delivering Red Hat solutions, which, coupled with our certified partnership with Red Hat, enables us to provide our clients with discounted software. Our partnerships with Red Hat are built on strict frameworks, which are regularly reviewed to ensure our capability to run their solutions efficiently and effectively, providing our clients with the best possible outcome and a hassle-free experience.

## About hSenid Mobile

hSenid Mobile is a company with a proud history of 25 years of innovations and the heart of a start-up. We design and build innovative cutting-edge technology platforms which enables the digital transformation of the businesses. Our solutions are used by leading telecoms, banking & financial institution and enterprises around the globe.

© 2023 hSenid Mobile Solutions. All Rights Reserved.

## Why hSenid Mobile

Since 1997 we have collaborated with multiple systems across different streams and provided flexible enterprise solutions. We gained recognition across Asia, Asia Pacific, Africa, Australia and USA as a partner of choice for supply of secure, convenient and cost-effective mobile solutions. With the extension of our sales and business development strategies, our systems handle nearly 50 million transactions daily. We believe in our expertise in integrating systems through complex network protocols, founded on cutting edge infrastructure and together we will no doubt transform the mobile usage experience for your customer base.



### Singapore (Head Office)

hSenid Software (Singapore) Pte Limited  
7500A, Beach Road,  
#11-320 The Plaza, Singapore 199591.

Phone : +65 6533 2140  
Fax : +65 6291 0023

### Philippines (R&D)

hSenid Mobile Solutions Philippines Inc.  
3202-B 31, Atlanta Centre Annapolis St,  
Greenhills, City of San Juan, Second District,  
National Capital Region (NCR) 1502.

### Bangladesh (R&D)

hSenid Mobile Solutions (Bangladesh) Pvt Ltd  
Suit B2, House 9B, Road 117,  
Gulshan Avenue, Dhaka-1212, Bangladesh.

Phone : +88 02 988 0874

### Sri Lanka (R&D)

hSenid Mobile Solutions (Pvt) Ltd  
320, 3rd Floor, T.B.Jayah Mawatha,  
Colombo 10, Sri Lanka.

Phone : +94 11 268 3751  
Fax : +94 11 268 3951



**hSenidMobile**

CO-CREATING THE FUTURE

*Co-Creating The Future*



**Red Hat**