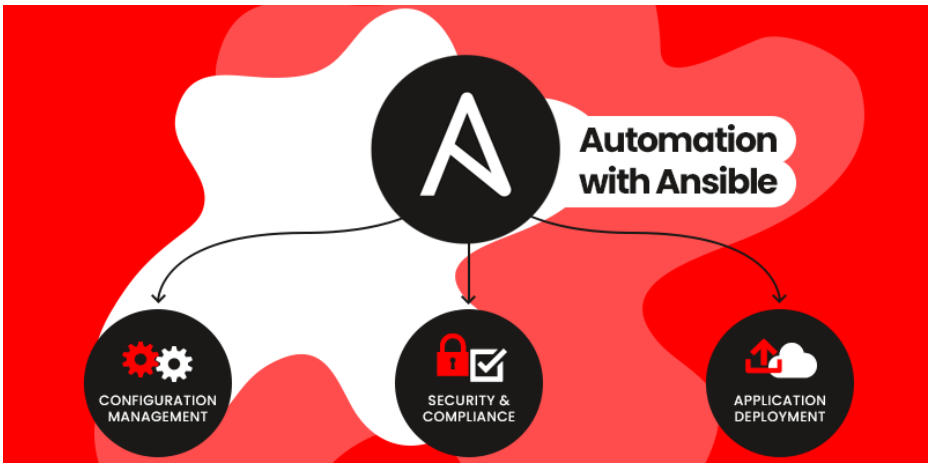
MAKING IT HAPPEN

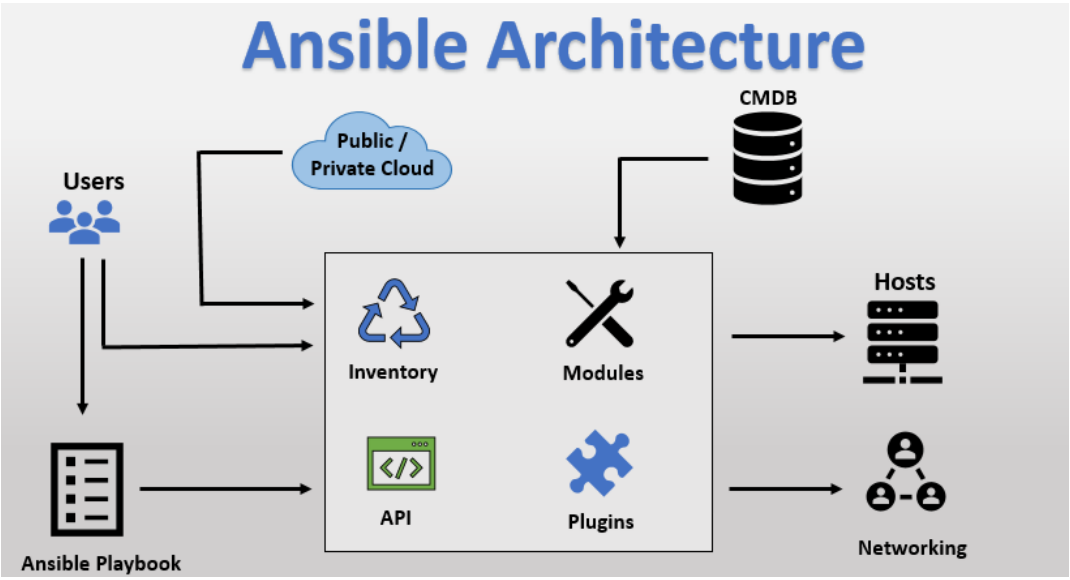
BINARY

SINCE 1986

AUTOMATION PROJECT

Automation with Ansible





Binary Systems Pvt Ltd offers a comprehensive Ansible automation solution, starting with setup and implementation, followed by one year of support and the flexibility to accommodate new automation projects with advance notice.

REQUIREMENTS FOR ANSIBLE IMPLEMENTATION

System Requirements:

- **Ansible Control Node: The machine where Ansible is installed and commands are executed.**
- **Target Hosts: Systems or servers where you want to apply configurations or automation.**

Operating System:

- **Controller Operating System (Ubuntu) with 1TB Storage**
- **Ansible control node should run a Unix-like operating system (e.g., Linux) for optimal support.**

SSH Keys:

- **Ensure SSH keys are set up for passwordless access from the control node to target hosts. This is necessary for Ansible to establish connections.**

Automation Tasks:

- **Define what you want to automate. It could be server provisioning, configuration management, application deployment, or any other task.**

Benefits of Ansible Automation:

- **Efficiency: Ansible allows you to automate repetitive, time-consuming tasks, reducing the need for manual intervention. This results in increased efficiency and productivity.**

- **Consistency: Automation ensures that tasks are executed consistently and according to predefined playbooks, reducing the likelihood of human error.**

- **Scalability: Ansible can easily scale to manage configurations and deployments across a large number of systems, making it suitable for both small and large environments.**

- **Cross-Platform Support: Ansible supports a wide range of operating systems and platforms, making it versatile for managing diverse environments.**

- **Agentless:** **Ansible is agentless, meaning it doesn't require any agent software to be installed on target hosts. This simplifies setup and maintenance.**

- **Security:** **You can use Ansible to enforce security policies and perform security-related tasks like patch management and access control.**

- **Reduced Downtime:** **Automation can help minimize system downtime by enabling tasks like rolling updates and failover management without service interruptions.**

Tasks That Can Be Automated with Ansible:

- **Software Installation and Updates:** **Automate the installation, updates, and removal of software packages across systems.**

- **Infrastructure Provisioning:** **Automatically provision virtual machines, containers, or cloud resources, including setting up network configurations and storage.**

- **Application Deployment:** **Deploy and manage applications and microservices in a consistent and repeatable manner.**

- **Backup and Restore:** Schedule and automate backup processes and recovery procedures for data and systems.

- **Load Balancer Configuration:** Configure load balancers to distribute traffic and manage server availability.

- **Database Management**: Automate database provisioning, replication, backups, and user access control.

- **Monitoring Setup:** Configure monitoring tools, agents, and alerts to keep track of system health and performance.

- **Log Management:** Set up log collection, aggregation, and retention policies for centralized log analysis.

- **Network Device Configuration:** Automate network device provisioning, configuration changes, and firmware updates.

- **Custom Workflows:** Design custom automation workflows that cater to your organization's specific needs.

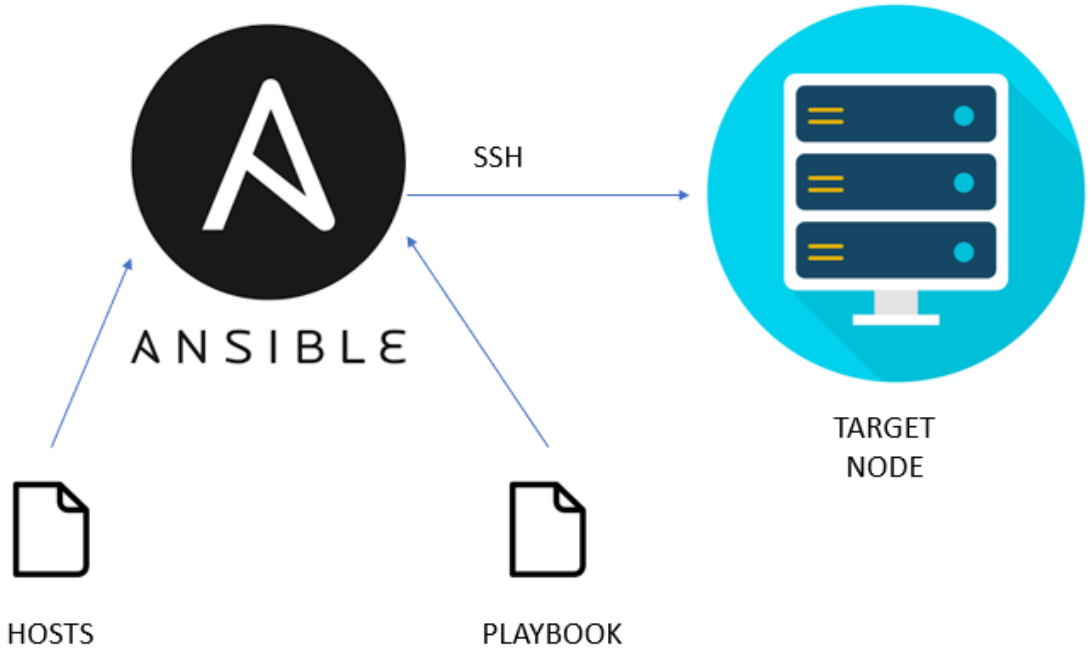
- **Disaster Recovery:** Automate failover and recovery procedures to minimize downtime during disaster scenarios.

- **User Account Management**: Automate user provisioning, access control, and permissions management.

- **Patch Management:** Schedule and automate patching of operating systems and applications.

- **Backup and Archiving: Automatically back up and archive data for long-term storage and retrieval.**

- **Container Orchestration: Manage containerized applications and services with orchestration tools like Docker and Kubernetes.**



Binary Systems Pvt Ltd can provide the following services for Ansible automation, based on the specified criteria:

One Time Setup and Implementation

- **Ansible Environment Setup: Configure Ansible control nodes and target hosts to establish an automation framework.**
- **Inventory Management: Create and manage inventory files, defining target hosts and their connection details.**
- **Playbook Development: Design and develop Ansible playbooks to automate specific tasks or processes.**
- **Role Creation: Organize automation tasks into reusable roles, making future automation more efficient.**
- **Security Best Practices: Implement security measures to protect Ansible automation, such as secure SSH configurations and encryption.**
- **Initial Training: Provide training and knowledge transfer to client teams on Ansible usage and best practices.**

Comprehensive Ansible Project Services with 1-Year Support Option

In addition to our Ansible project services, we offer a 1-year support package at an extra cost. This support ensures ongoing assistance, updates, and optimization of your Ansible automation, providing peace of mind and reliability for your long-term automation needs.

New Automation Requests:

- **Clients are encouraged to inform Binary Systems Pvt Ltd at least 1 week prior to initiating any new automation project to ensure proper planning and resource allocation.**

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