

DEVOPS AUTOMATION SUITE

BROCHURE

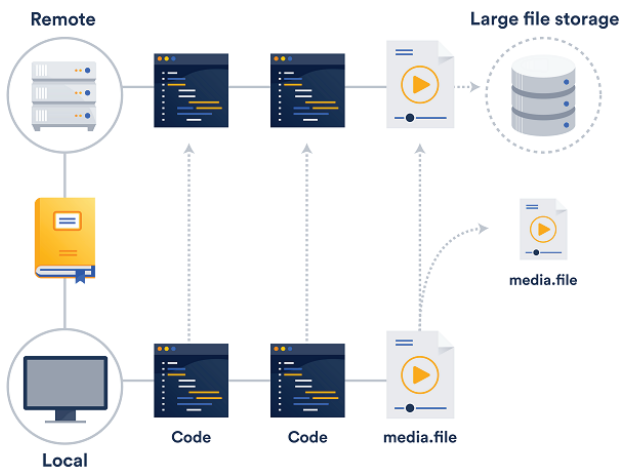
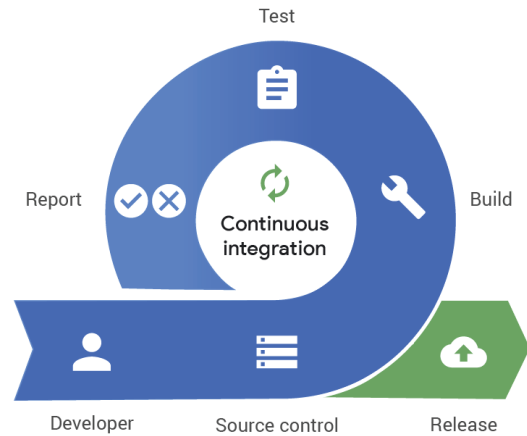
CONTINUOUS INTEGRATION
CONTINUOUS DEPLOYMENT
CONFIGURATION MANAGEMENT
CONTINUOUS MONITORING

Smarter way to build software

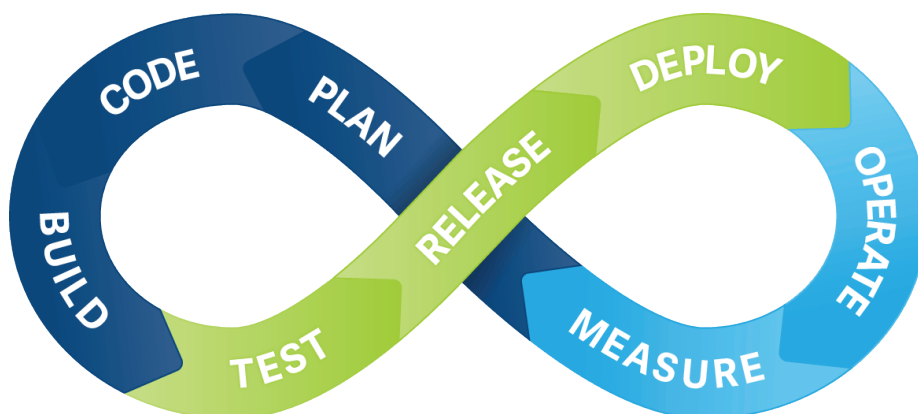
DevOps Automation Suite

Continuous Integration

- > Automate integration of code base to a common repository
- > Enable developers for a unified software build
- > Version Control System single source of truth
- > Build codebase across wide spread of languages and technologies
- > Track iterations, versions, change logs
- > Run exhaustive Unit tests, smoke tests, Integration tests, Acceptance tests



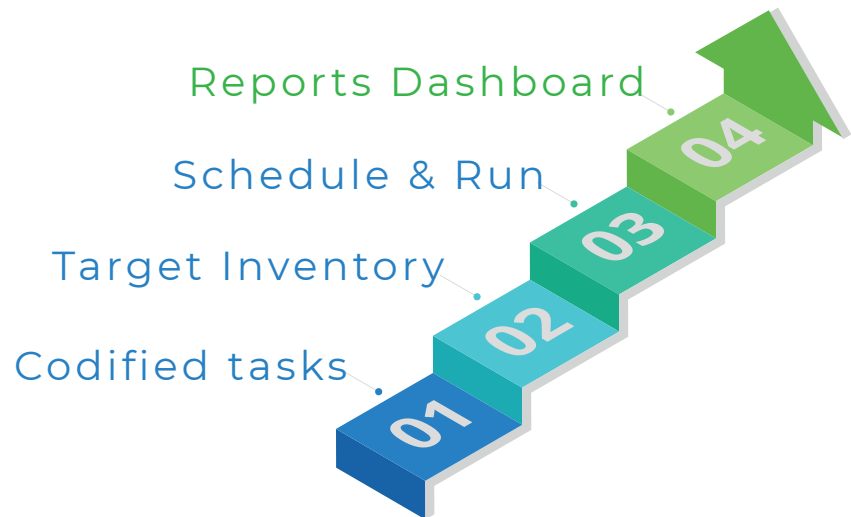
- VCS Gitea Repository with secured access to web GUI management console
- Developer workstation client software Git integration to VCS
- Code checkout to project repository
- Code merge, compare, backup, archive
- File repository for large media files
- Automated code build with Jenkins and language specific compilers
- Distributed build with Jenkins master, worker architecture
- Build artifacts with CI Pipeline



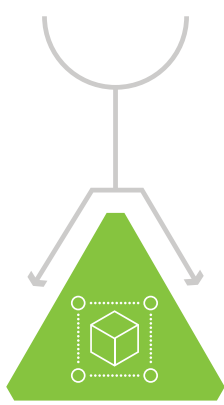

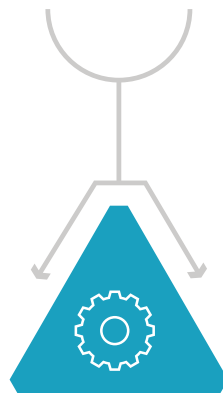
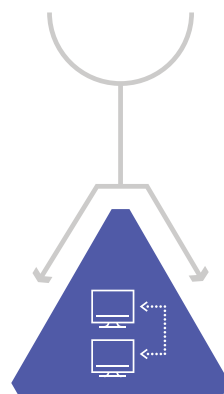
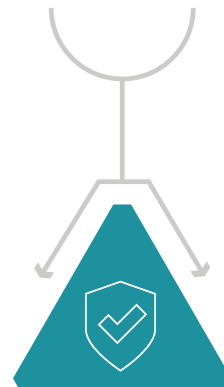
DevOps Automation Suite

Continuous Deployment

- # IT Operations automation & Orchestration
- # Deploy software apps to target environment in an automated way
- # Applications, Middleware, databases, dependencies all in a stack
- # Repeatable, reliable, quick delivery process
- # Central repository for source files, updates, upgrades, patches
- # GUI console management with reports

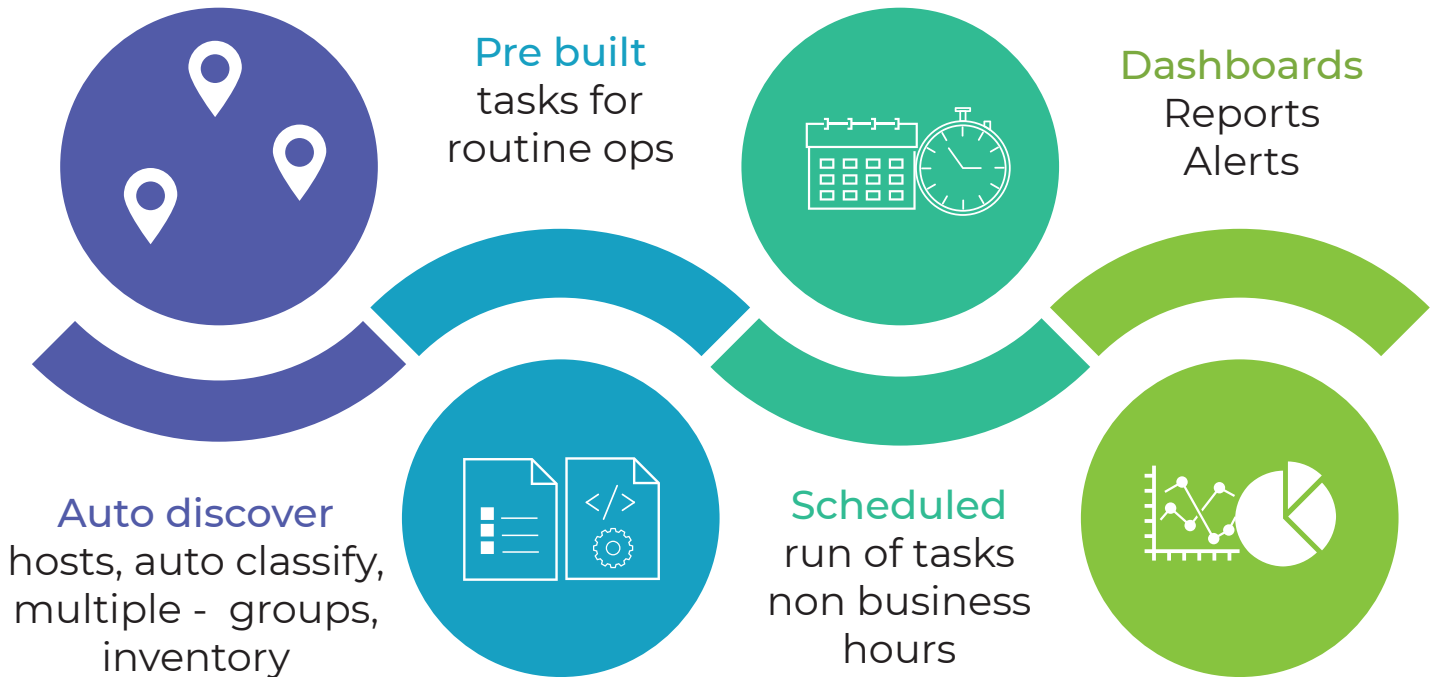


BUILT IN CAPABILITIES

 <p>DEPLOYMENT</p> <ul style="list-style-type: none"> Operating System Application Packages Network Storage Resources 	 <p>PROVISION</p> <ul style="list-style-type: none"> Services Web Domain File System DHCP, DNS RDP Database 	 <p>CONFIGURATION</p> <ul style="list-style-type: none"> Settings Patch Update Log Drivers Upgrade Compliance 	 <p>SYS ADMIN</p> <ul style="list-style-type: none"> User CRUD Events Backup Snapshot Rollback Health check Schedules 	 <p>SECURITY</p> <ul style="list-style-type: none"> Policy enforcement Hardening Sec check Password VAPT Hotfix CVE
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DevOps Automation Suite

Configuration Management



Large scale, multi step tasks in a click

Autozen IT Automations Management has bundled tasks for multiple pre-defined day-to-day operations. Run them on your infrastructure in a click of a button.

Domain Ops

User Group
Permissions
Add Remove
Manage

Sys Admin

Patch mgmt
Schedules
Release upgrade
mgmt

Security

CIS, CERT In
Firewall rules
OS Hardening
Audit rules

Remote mgmt

RDP VNC
Cmd exec
Query File
Services

Application

Deploy
Configure
Updates
State mgmt

File Ops

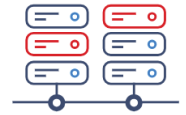
Backup
Distribute
Shares
Existence

DevOps Automation Suite

Continuous Monitoring

Server Monitoring

Monitor physical, virtual servers, hosts and guests. Key resource parameters CPU utilization, RAM consumption, Disk usage, Network bandwidth consumption, Disk IOPS, Latency, Health.



Network Monitoring

Monitor network devices, Switches, UTM, Firewall, Routers, Load balancers, WAF. Get visibility of network utilization, network link availability, packet loss. Check Primary to Secondary network failover. Supports SNMP and agent based.



Application Services Monitoring

Monitor Operating System, individual applications and databases. Get insights to OS events, alerts, failures, deviations. Application specific parameters for contextual monitoring like traffic and number of hits for Web servers. Database specific contextual monitoring like number of connections, write requests per minute, read requests per minute. Get failure and threshold alerts on dashboard & email. Export graphs and reports.

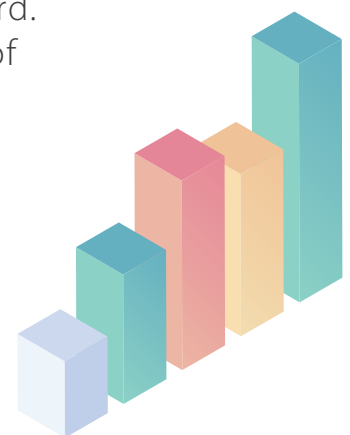


Log Management

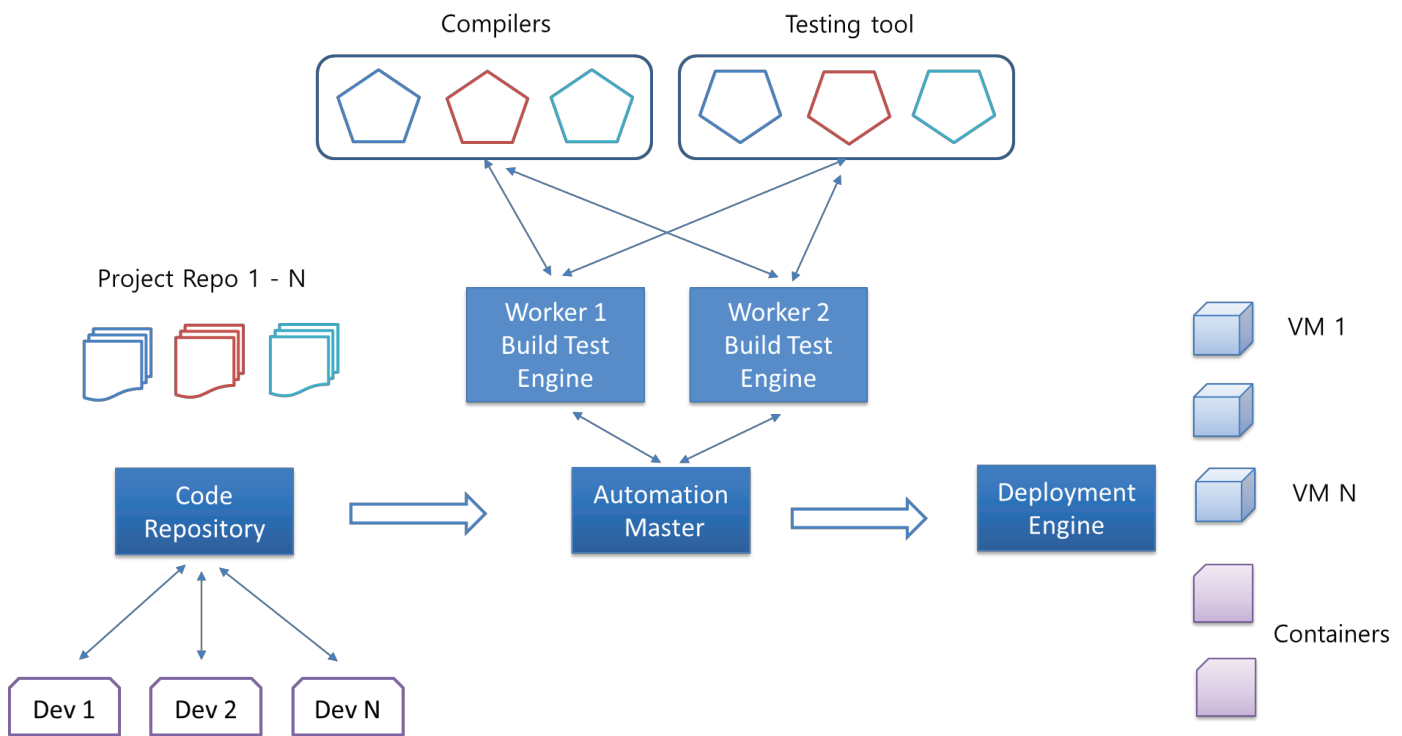
Gather logs from assets in inventory to get granular insight. Log collection with custom agents for Windows and Linux OS. Logs supported on Servers, Operating Systems, Applications, Databases, network devices. Archive and retain logs. Query logs for investigation. Use logs for audit. Unconver aggregated log data from multiple sources simultaneously for analysis on dashboard. Monitor security events, configuration files change, integrity of files, rights, permissions, attempts of attacks, power recycles.



Custom Dashboards Reports



CONTINUOUS INTEGRATION CONTINUOUS DEPLOYMENT PIPE LINE



SOURCE CODE MGMT

- Developer workstations will have IDE integrated to a local code repository
- Once code has been built, developer commits code to local repo, code base gets checked out to a Central repo (Version Control System).
- Code shipping from local to central repo over secured communication (HTTPS / SSH).
- VCS has multiple project repos, with all codes of the organization are stored securely.
- User authentication with LDAP
- Backup code bases
- Web based management

BUILD & TEST MGMT

- Multiple projects are configured in Automation Master server.
 - Each project segregates the code base for the project.
 - Integrate Build, Test engines to - Automation Worker Server
 - Build engine works with multiple compiler engines
e.g. NodeJS, Java, C
 - Test engine works with multiple test engines
 - Build, test can be manual / automated based on triggers
- Resultant object code / executable get stored in Project
- Build code is tracked with Build IDs / Version numbers

DEPLOYMENT MGMT

- Build code can be deployed to multiple target Server VMs / Containers simultaneously
- Code, application deployment
 - > File shipment
- Code execution – Configuration management
 - > Runtime, library dependency management
 - > E.g., Python packages, SSL Certs, JRE, .net framework, DLLs
 - > Installation of the code
 - > Service up & running
 - > Go Live !