INSIGHTS | SOLUTIONS BRIEF

WEI Infrastructure As Code Services: Ansible

Automation is gaining traction with IT leaders for many reasons, and perhaps the biggest has to do with the business value automation readily provides. Many organizations are at different stages of implementing automation into their IT infrastructure, but many do it for the advantages of greater efficiency, improved reliability, and transparent governance.

WEI Infrastructure As Code Services: Red Hat Ansible

The benefits of Red Hat Ansible, an open source IT automation software application designed to orchestrate advanced workflows, takes the burden off your IT staff. Ansible's automation supports application deployment, system updates, and much more. With careful guidance from WEI, Ansible empowers IT teams to focus on value-added solutions and prioritize investments in automation.

Whether you are getting started with automation or looking for insights to help create an effective expansion strategy, WEI can help steer your journey to fruition. Our seasoned experts on Infrastructure as Code (IAC) take software-defined networking to the next level. IAC is a practice in which infrastructure resources are treated as code. This allows DevOps and IT operational teams to deploy and automate repetitive tasks involving the infrastructure within enterprise environments.

WEI leverages Ansible as an agentless, open source tool that allows you to create playbooks, or job templates, that describe the configuration and tasks that need to be performed on designated machines and infrastructure components.

WEI at a Glance

- ***Our trained and certified experts are well-versed in customer experience.***
- ***30-year track record of putting our customer's needs first.***
- ***We hire the most qualified engineers in the industry and empower them with the freedom to create best-in-class business solutions.***
- ***Three-time CRN Triple Crown Award winner***

Prioritize IT Automation, Simplify Deployment

Ansible Tower is a web-based user interface that runs on top of Ansible. Once a playbook is created, you can repeatedly deploy it automatically and scale it across your entire enterprise. These playbooks automate time-consuming tasks such as:

- System deployments
- Version control
- Regular patching
- Scheduled backups

Better Together: WEI and Ansible Tower

WEI's IAC engineers can fully leverage the capabilities of IAC and Ansible Tower. We test each developed playbook in our secure Testing & Integration Lab that is simulated to be identical to your environment to eliminate DOA scenarios. You then take the easy part of deploying these developed playbooks using Ansible Tower. WEI's capabilities include:

- Assess your IT infrastructure for Ansible to implement an automation solution sized specifically to your environment.
- Empower customers through knowledge transfer and hands-on training, so your team knows as much about their new Ansible solution as we do.
- Create and deploy playbooks that ensure consistency and accuracy in your infrastructure management while reducing manual effort and the risk of human error.

Common Ansible and Ansible Tower Use Cases

- Provision physical or virtual servers of multiple operating systems and configurations across all environments.
- Enforce security and compliance policies across your entire infrastructure by automating tasks such as patching, configuration hardening and vulnerability scanning.
- Automate network infrastructure tasks such as switch and router configuration, IP assignments and security.
- Manage and automate cloud infrastructure tasks across multiple cloud platforms including AWS, Azure, and Google Cloud.
- Integrate with continuous delivery pipelines to automate the building, testing, and deployment of applications and their supportive infrastructure.
- Create, modify, and delete job templates and launch job runs containing specified input variables.
- Create a laptop playbook containing the configuration and inventory for a positional employee and then plug the laptops into the network to populate them.
- Centralized inventory management of all disparate systems.
- Job scheduling to automate the execution of Ansible playbooks across an IT infrastructure.
- Role-based access control that allows administrators to define roles and permissions to enforce restricted access to users and teams.
- Scale-out architecture to allow management and automation of large-scale deployments with ease.
- Real-time job status updates for all your Ansible jobs to troubleshoot issues immediately.
- API access that allows you to integrate with other tools and system platforms.