

The Server Labs G-Cloud 15 Service Description

G-Cloud 15 Service Definition - Ansible
Automation Platform Cloud Services

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1 What is Ansible Automation Platform

Red Hat® Ansible® Automation Platform is a unified solution for strategic automation. It combines the security, features, integrations, and flexibility needed to scale automation across domains, orchestrate essential workflows, and optimise IT operations to successfully adopt enterprise AI

a. Ansible Automation Platform Main Features

- Ansible Automation Platform (AAP) has further features:
 - Commercial product with vendor support.
 - Product created by the maintainer of Ansible, RedHat.
 - **Automation Controller**, which is the control plane for Ansible Automation Platform, defining, operating, and delegating automation across your organisation. It includes a user interface, role-based access control (RBAC), a workflow visualiser, and continuous integration and continuous delivery (CI/CD) integrations to help standardise and scale automation while reducing automation sprawl and variance. With automation controller, users can manage inventory, launch and schedule workflows, track changes, and integrate those changes into reporting—all from a centralised user interface and REST API.
 - **Automation Hub** also you to locate new collections quickly, reuse and share content throughout your organisation, create custom repositories for internal teams, and manage a combination of internally generated content, Red Hat Ansible Certified Content, and Ansible validated content.
 - **Automation Mesh** via Execution nodes enables localised automation and execution closer to endpoint devices, limit execution interruptions all across diverse network topologies, platforms, and teams. Centrally managed via automation controller. Execution nodes can be placed in tagged accounts and on premises data centres.
 - Automated config can runs in check and diff mode to detect and alert on config drift.
 - Configuration as Code (CaC), configuration of the platform can be managed by Ansible code in Gitlab repos as well as the GUI and APIs.
 - **Event-Driven Ansible** will allow automate IT tasks with user-defined, rule-based constructs. It works by receiving events from third-party tools, deciding on the actions to take, and responding automatically.
 - Organisations and RBAC within AAP to allow diverse teams segregated access and self service.

2 What are the benefits of TSL Cloud Services

Running Ansible Automation Platform in the cloud requires the deployment of a large and complex cloud Infrastructure stack. Our expertise not only in the individual technologies of this stack, but in relation to how the complex Ansible Automation Platform application works and interacts with the stack, provides a rapid fast track deployment for organisations.

Added to this, support across the major cloud providers. Our fast track solution provides ready made, out of the box configuration to support the major clouds implementation of the stack technologies. This provides a huge time saving and trial and error for the customer.

3 What included in the TSL Cloud Services for Ansible Automation Platform

b. Deployment of Ansible Automation Platform Infrastructure Stack

The deployment includes the following stages and components out of the box.

- Adding an Executor to Ansible Automation Platform
- Ansible Automation Platform logging to Datadog
- Ansible Automation Platform Design
- High availability Ansible Automation Platform
- Managing Ansible Automation Platform Red Hat subscriptions
- Optional On Prem Executor Creation
- Optional PoC leading to Production deployment
- Choice of DB (Postgres) for Ansible Automation Platform

NOTE: This full deployment process can be customised, depending upon the customer's local cloud maturity and expertise. eg some customers may have pre-created accounts or VPCs to receive the deployment.

- **Testing of Ansible Automation Platform Infrastructure Stack**

The Ansible Automation Platform deployment is signed-off and handed over to the customer after pre-defined Ansible Automation Platform tests have been completed.

- **Ansible Automation Platform Infrastructure runbook**

- Ansible Automation Platform Installation notes

A comprehensive and detailed runbook and Ansible Automation Platform Installation notes are included which will enable the customer engineer to repeat all the tasks completed and needed to fully rebuild and operate the deployment.

- **Ansible Automation Platform Infrastructure Sizing**

The service provides guidance to sizing deployments for

2. build and daily running of Ansible Automation Platform, for differing sizes of deployment
3. once a system is running, how to change the deployment to optimise performance for varying volumes of server estates

4 The Server Labs

The Server Labs (TSL) is a 100% privately founded IT Consultancy and Software Development Company with headquarters in the UK and offices in Germany and Spain and now established as a leader in Cloud Computing services. The Server Labs focuses on the design and implementation of IT architectures and advanced software engineering projects working with the most advanced technologies to provide its clients cost-effective, scalable and high performance solutions. The Server Labs has been using the Cloud since 2006 and working with its customers in the cloud since 2008 and was one of the first European partner's of Amazon Web Services.

The Server Labs has clients in many different industry areas such as space, finance and telecoms. We collaborate with our clients to obtain success, committed to innovation, enjoying what we do every day and growing with every challenge.

The Company's mission is:

- To provide **expert services** in the field of IT architectures and advanced software engineering
- To **improve radically the software development process**
- **To help organisations achieve better business results through the correct use of latest technologies**
- To have **100% satisfied clients**
- To create high quality **innovative software solutions**, providing added value to our customers

The specific value, experience and expertise that The Server Labs can provide for e-LfH are:

1. **Technical excellence** and capability to act as lead on architectural decisions and as technology expert in software and system subjects.
2. **Architecture experience at software and system level.**
3. **Proven experience in HPC and Big Data Projects**
4. **Real cloud computing experience, at IaaS, PaaS and SaaS levels, and for both compute power as well as storage solutions in different clouds.**
5. **Secure software development processes audited and certified to ISO 27001:2022**
6. **Technological excellence**, especially in the main technologies required for the project, including HPC, web services and security technologies.

All our architects and engineers are experts with an average of 10 years' experience in the planning, design and development of complex software systems. Our multinational team has been a pioneer in Java technologies, Object Oriented Analysis and Design and distributed architectures, and has the required hands-on experience in many state of the art technologies. In the last few years, The Server

Labs has positioned itself as a leader in Cloud computing services, helping organisations move to the Cloud at all levels. For more information on current projects being undertaken by The Server Labs in Cloud computing, please see Appendix B.

Our experience working across several industries has given us a good understanding of the different requirements so we are able to provide the solution that best suits each particular business and reuse the lessons learnt in the other industry sectors when applicable. Our clients span organisations such as Bioinformatics (Genomics England & NIHR Bioresource), Central Government (Home Office, DEFRA, OFCOM, NICE), Banks (BNP Paribas, BBVA, Caja Madrid) , the European Space Agency (ESA), Madrid Underground (Metro de Madrid), ICCAT, Amadeus, TRAGSA, TIBCO (a leader in Messaging and Service Bus architecture systems), O2 and Telefonica, Vodafone, ORACLE, several, Sun Microsystems, TUI and Marsans travel, etc.