

Oracle Linux Automation Manager / Engine

Oracle Linux Automation Manager and Oracle Linux Automation Engine are additions to the Oracle Linux operating environment. Together, they provide a cost-effective, powerful, scalable, and secure infrastructure automation framework for enterprise environments. Additionally, they streamline software provisioning, configuration management, and application deployment, enabling infrastructure as code.

Oracle Linux Automation Manager and Engine, based upon the open source [AWX](#) and [Ansible](#) projects respectively, are included with an Oracle Linux Premier Support subscription. Oracle Linux Premier Support customers who are already using or evaluating AWX or Ansible can run these technologies with Oracle Linux Automation Manager and get support at no additional cost.

Oracle Linux Automation Manager

Oracle Linux Automation Manager provides a centralized web-based UI with reporting and control for your IT infrastructure. With a visual dashboard, it provides workflow automation, role-based access control, job scheduling, integrated notifications, and graphical inventory management.

For organizations invested in YAML and using or evaluating AWX or Ansible, Oracle Linux Automation Manager can easily integrate, provide an enterprise solution, comprehensive automation, and run existing YAML-based playbooks.

Oracle Linux Automation Manager has a decentralized architecture. The modular, container-based approach effectively decouples the control and execution planes, providing the option of multiple nodes and the ability to have a remote database environment. Current users can easily migrate to the latest release by following instructions within the [documentation](#).

Oracle Linux Automation Manager includes control nodes and execution nodes, execution environments, service mesh, Private Automation Hub, and Builder utility.

Control Nodes and Execution Nodes

The control node for Oracle Linux Automation Manager provides the user interface, role-based access control, and content management. The control plane defines how automation is initiated, deployed, audited, and delegated. From the control node user interface or via a RESTful API, users can manage inventory, schedule workflows, track changes, and initiate reporting. The execution nodes run standard jobs using ansible-runner which in turn uses Podman to run playbooks within Oracle Linux Automation Manager execution environments.

Execution Environment

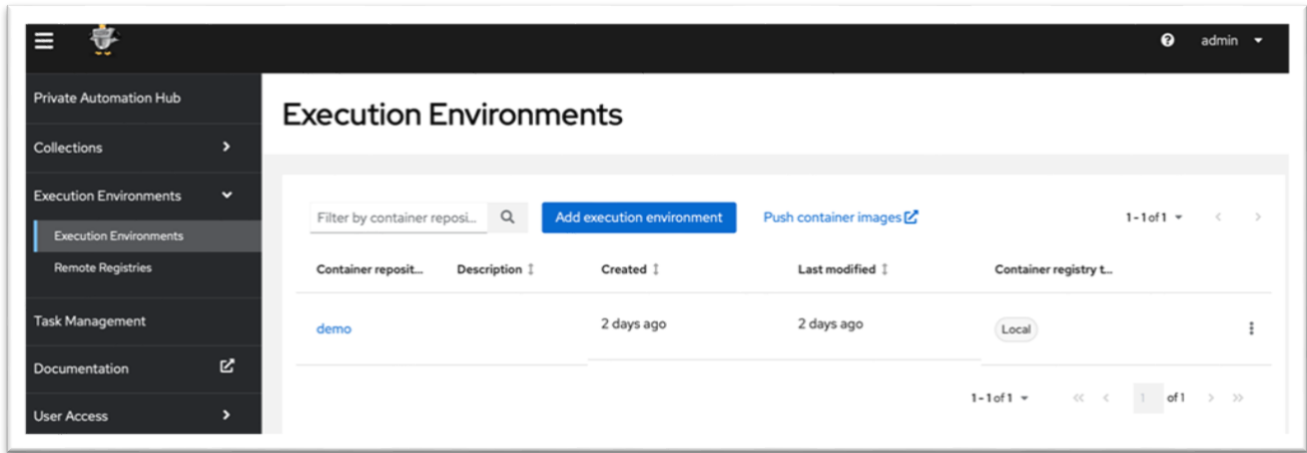
Execution environments simplify how automation is executed. With execution environments, the place from where the automation is executed is a ready-built container with Oracle Linux, ansible-core, Python, and supporting collections and libraries, which enables a consistent and defined environment.

Service Mesh

Service mesh provides a secure and resilient networking mesh for linking control and execution nodes for shared job execution.

Private Automation Hub

Based on open source project [galaxy_ng](#), Private Automation Hub allows you to synchronize and securely store custom Ansible Collections and execution environments to use with Oracle Linux Automation Manager.



Builder Utility

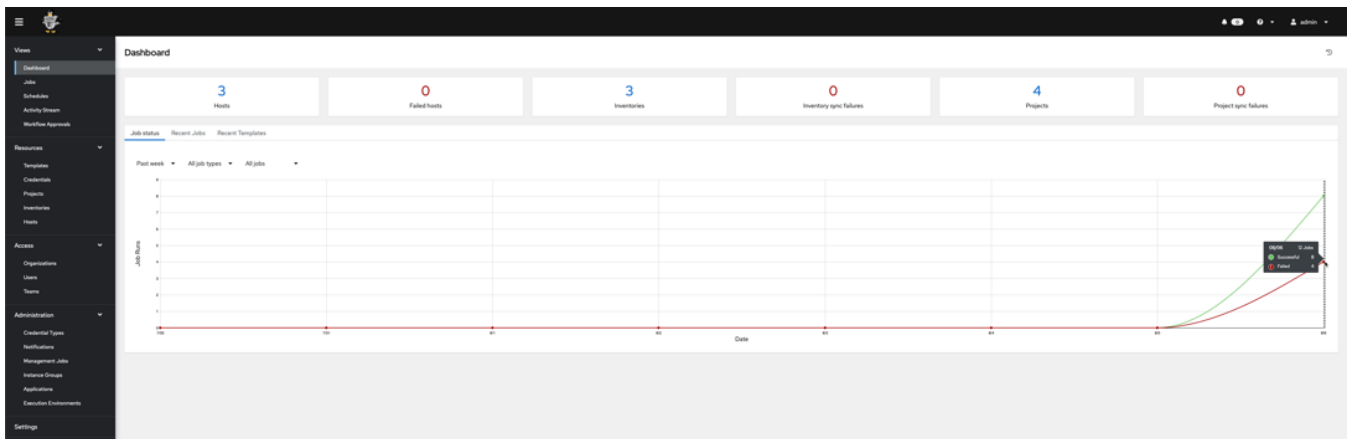
The builder utility is based on the open source project [ansible-builder](#). It supports the customization and creation of execution environments. These environments are then uploaded to Private Automation Hub, where they can be leveraged by Oracle Linux Automation Manager to meet the dependencies and requirements of various systems.

For details on the above topics, consult the [Private Automation Hub Installation Guide](#) and [Private Automation Hub User Guide](#).

Dashboard

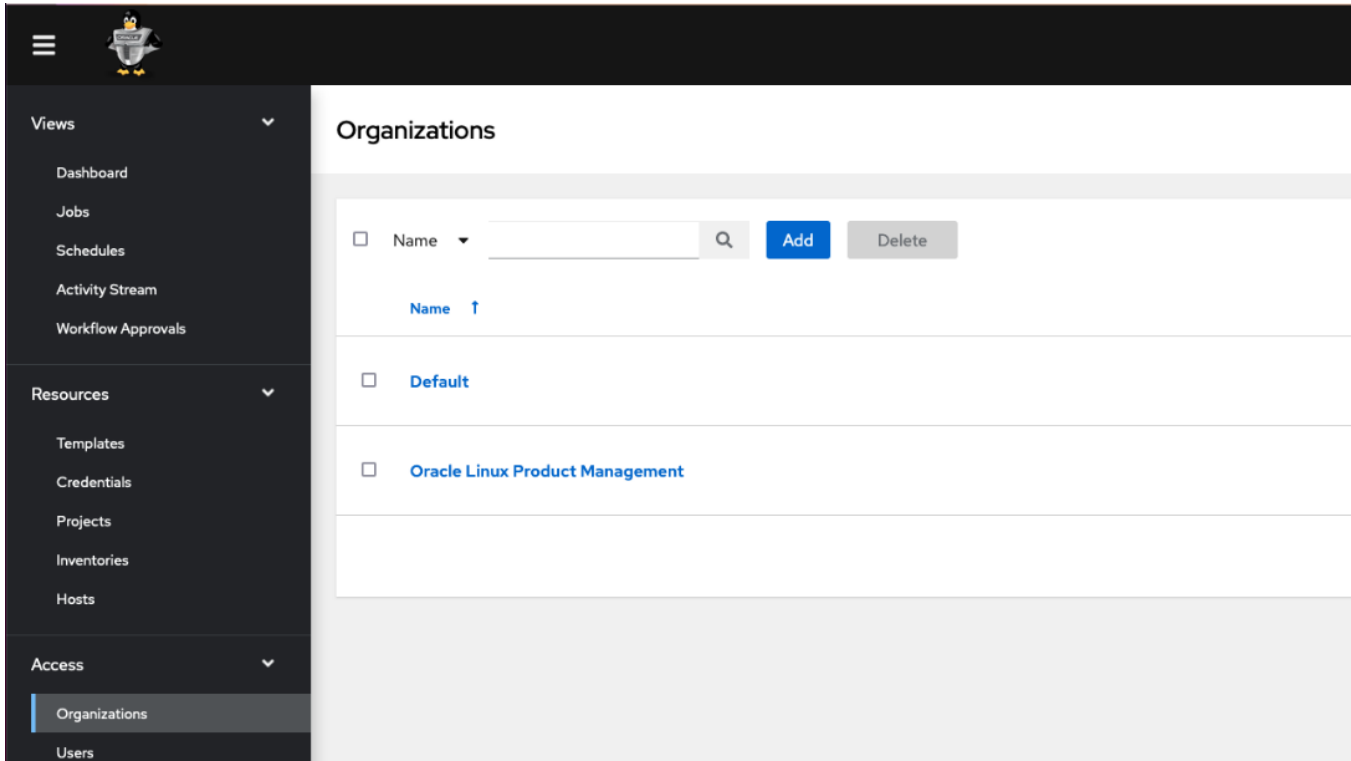
The Oracle Linux Automation Manager dashboard provides an immediate overview of everything scheduled and in flight within your environment.

The dashboard provides an overview of hosts, inventory, jobs, and recent runs. The option to adjust job status or time range settings enables you to graph data based on specific requirements.



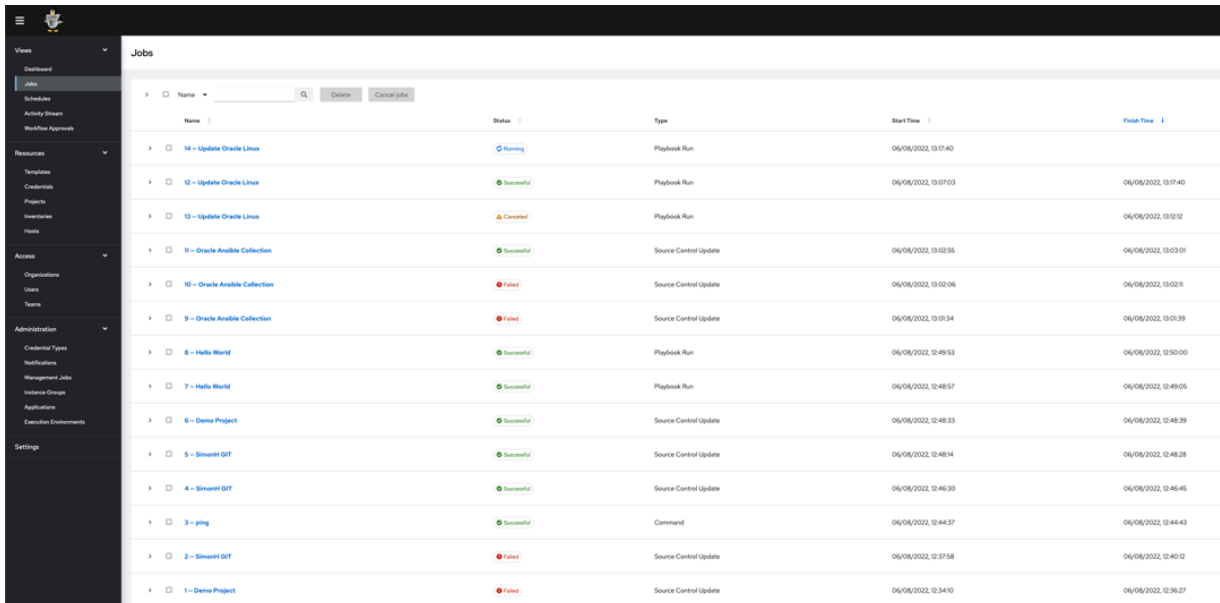
Role-based access control

Allowing the right people with the right access to the right resources is key. Oracle Linux Automation Manager lets organizations quickly and easily control who can run what tasks on what resources.



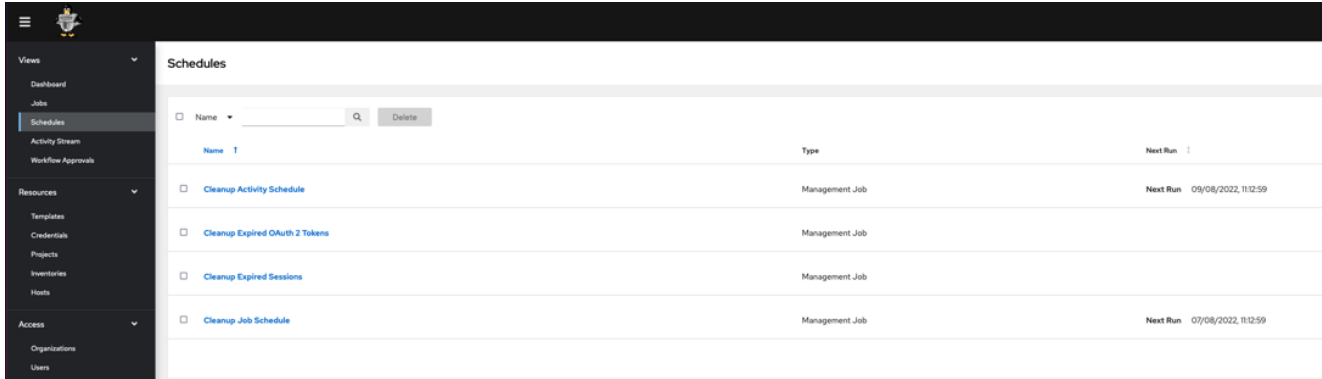
Real-time job updates

Executed and scheduled jobs run in real time. As Oracle Linux Automation Manager automates across your infrastructure, you'll see running and completed tasks, related to each system, and each success or failure, with detailed output of the execution.



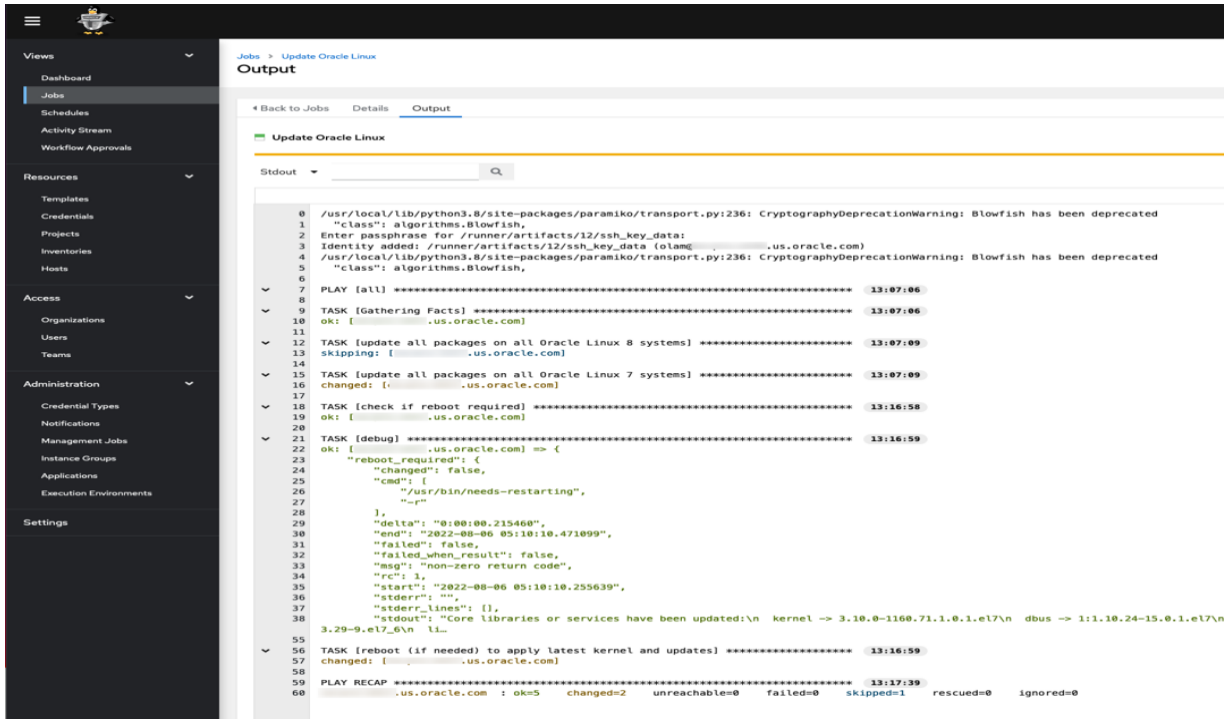
Job scheduler

Oracle Linux Automation Manager offers different options to schedule playbook runs and source control updates, allowing you to schedule occasional tasks like point-in-time jobs (backup), periodic jobs (configuration remediation for security compliance), or a full and continuous delivery job with just a few clicks.



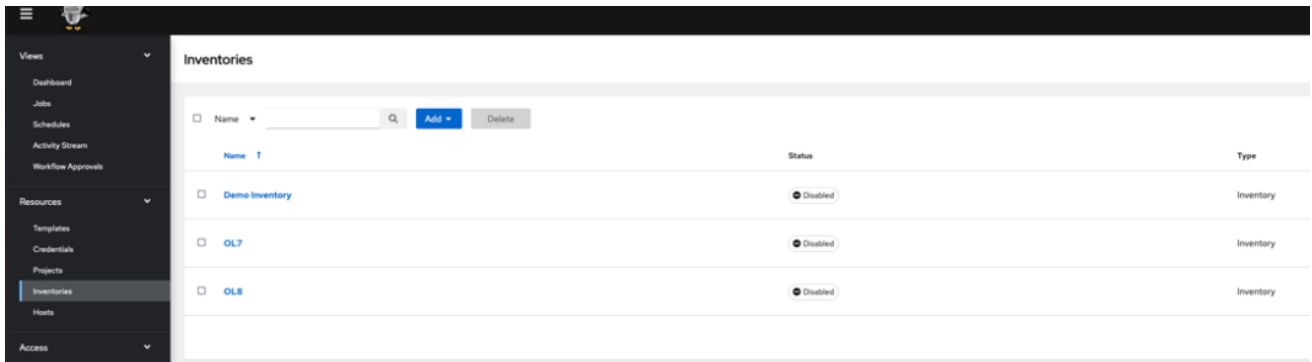
Activity log

Oracle Linux Automation Manager enables you to verify all the activities executed. Events within your infrastructure can be analyzed, monitored for anomalies, and correlated from one service to another. Event data types are job runs, activity stream data, and log messages.



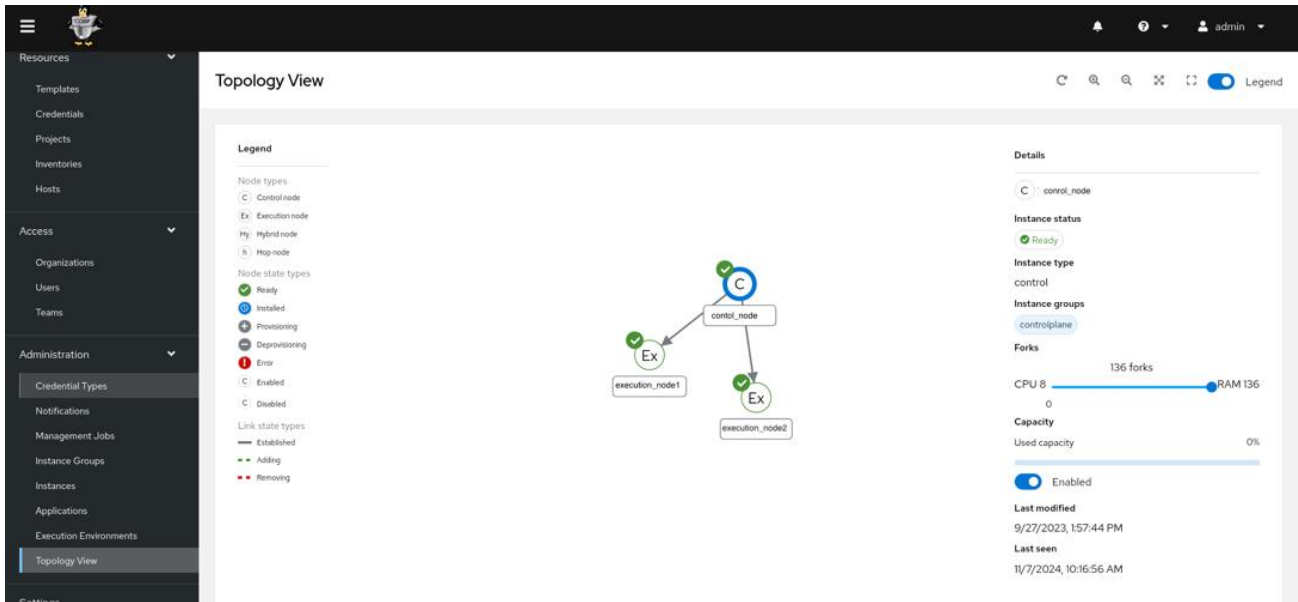
Inventory management

Oracle Linux Automation Manager provides inventories that enable a logical segmentation of physical resources to be coupled with the role-based access control framework.



Topology Viewer

The topology viewer provides a graphical representation of different types of nodes (execution, control, hybrid, hop), node health, and how they are connected using the service mesh.



REST API and CLI support

Oracle Linux Automation Manager provides a REST API for programmatic interaction as well as a Command Line Interface (CLI) for direct interaction providing options outside the web-based UI.

Streamlined support

Oracle is the only vendor in the industry that offers a complete Linux-based solution stack—applications, middleware, database, management tools, operating system, virtualization, hardware, engineered systems, and cloud—along with streamlined support, which offers several benefits.

With Oracle as your Linux support provider, your costs can be significantly lower than with other vendors' Linux support, while having a single point of contact for all your support needs. Users are free to decide which systems should be covered by a support subscription, and at which level each of them should be supported. There is no all-or-nothing clause. This makes Oracle Linux an ideal choice for both development and production systems. You decide which [support coverage](#) is the best for each of your systems individually, while keeping all of them up-to-date and secure.

Resources

- Learn more at oracle.com/linux
- [Oracle Linux Automation Manager 2.2 announcement blog](#)
- [Oracle Linux Automation Manager Documentation](#)
- [Oracle Linux Automation Manager Training](#)
- [Download Oracle Linux](#)
- [The Value of Oracle Linux Support](#)

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