

# Oracle Linux Automation Manager / Engine



Oracle Linux Automation Manager and Oracle Linux Automation Engine are the latest 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 already using or evaluating AWX or Ansible can run these technologies and get support at no additional cost.

## Oracle Linux Automation Manager and Engine

Oracle Linux Automation Manager is based on the AWX open source project. The AWX development branch and documentation are available in [GitHub](#). 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.

Oracle Linux Automation Engine is based on the Ansible open source project. The Ansible development branch and documentation are available in [GitHub](#).

Oracle Linux Automation Engine concentrates on infrastructure use cases such as loading the yum cache, updating the inventory host to the latest version, and http server deployment, including configuration of the firewall. Two example playbooks for these use cases are included with Oracle Linux Automation Manager.

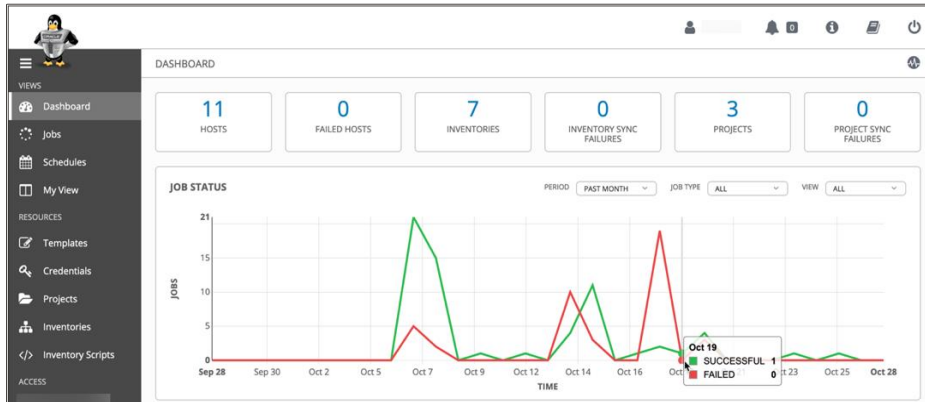
## Key Benefits

- Reduces manual processes and automates day-to-day IT tasks
- Stabilizes configuration management
- Avoids accidental and malicious drift using playbook-based configuration as code
- Powerful, intuitive, and secure web-based user interface
- Provides human-readable infrastructure playbooks in YAML configuration language
- Easy to create or leverage existing playbooks for tasks such as configuring SELinux, firewalls, networking, and adding users
- Standardizes installing and configuring applications such as webservers on inventories of hosts
- Simplifies assigning regular and timed job runs for tasks
- Included with Oracle Linux Premier Support at no extra cost

## Dashboard

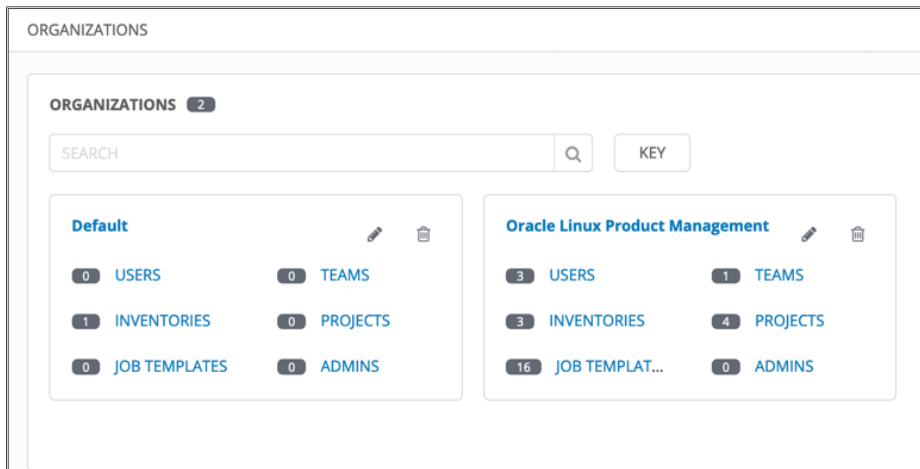
The Oracle Linux Automation Manager dashboard provides an immediate overview for everything scheduled and in flight within your environment.

From the dashboard, you can access hosts and inventory status, view all jobs, and an overview of recent job 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 complete output of the execution.

### Key Features

- Projects, which are a logical store for your playbooks, can be stored locally on the Oracle Linux Automation Manager or sourced from a Source Control Manager (SCM) facility such as GIT
- Inventory management, where logical groups of hosts can run individual modules or playbooks
- Credential management, for project source and inventory nodes, where credentials such as machine-based SSH credentials, Oracle Cloud Infrastructure (OCI) and GIT access tokens are centrally stored and managed
- Role-based access control of users, groups, and resources
- Programmatic interaction with REST API and CLI

### Related support services

- [Oracle Linux Support](#)
- [Oracle Premier Support for Systems](#)

|  | Compact      | Expanded   | Name (Ascending) ▾ |
|--|--------------|------------|--------------------|
| Create User Simonh                           | Job Template | ██████████ | 🔍 📄 🗑️             |
| Disable SELinux for OL7/8                    | Job Template | ██████████ | 🔍 📄 🗑️             |
| Enable Enforcing SELinux for OL7/8           | Job Template | ██████████ | 🔍 📄 🗑️             |
| Enable Permissive SELinux for OL7/8          | Job Template | ██████████ | 🔍 📄 🗑️             |
| Getfacts                                     | Job Template | ██████████ | 🔍 📄 🗑️             |
| Hello World                                  | Job Template | ██████████ | 🔍 📄 🗑️             |
| Install HTTP and configure Firewall          | Job Template | ██████████ | 🔍 📄 🗑️             |
| Install HTTP and configure iptables firewall | Job Template | ██████████ | 🔍 📄 🗑️             |
| Reboot Server                                | Job Template | ██████████ | 🔍 📄 🗑️             |

### 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.

|                                     |                                  |                |                       |      |
|-------------------------------------|----------------------------------|----------------|-----------------------|------|
| <input checked="" type="checkbox"/> | Cleanup Activity Schedule        | Management Job | 11/2/2021 2:47:53 PM  | 🔍 🗑️ |
| <input checked="" type="checkbox"/> | Cleanup Expired Sessions         | Management Job |                       | 🔍 🗑️ |
| <input checked="" type="checkbox"/> | Cleanup Expired OAuth 2 Tokens   | Management Job |                       | 🔍 🗑️ |
| <input checked="" type="checkbox"/> | Cleanup Job Schedule             | Management Job | 10/31/2021 2:47:53 PM | 🔍 🗑️ |
| <input checked="" type="checkbox"/> | Weekly OL8 Yum Update and Reboot | Workflow Job   | 11/1/2021 11:00:00 PM | 🔍 🗑️ |
| <input checked="" type="checkbox"/> | Weekly OL6 Yum Update and Reboot | Workflow Job   | 11/1/2021 11:00:00 PM | 🔍 🗑️ |
| <input checked="" type="checkbox"/> | Weekly OL7 Yum Update and Reboot | Workflow Job   | 11/1/2021 11:00:00 PM | 🔍 🗑️ |

### 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.

The screenshot shows the Oracle Linux Automation Manager interface. On the left is a navigation sidebar with sections for VIEWS (Dashboard, Jobs, Schedules, My View), RESOURCES (Templates, Credentials, Projects, Inventories, Inventory Scripts), ACCESS (Organizations, Users, Teams), and ADMINISTRATION. The main content area displays details for a job titled "16 - Install httpd & configure firewall OL7/8".

**Job Details:**

- STATUS: Successful
- STARTED: 10/7/2021 5:32:38 PM
- FINISHED: 10/7/2021 5:33:03 PM
- JOB TEMPLATE: Install httpd & configure firewall OL7/8
- JOB TYPE: Run
- LAUNCHED BY: [User]
- INVENTORY: OL7
- PROJECT: Demo\_Project\_LocalFS
- PLAYBOOK: httpd.yaml
- CREDENTIAL: shiley
- ENVIRONMENT: /var/lib/ol-automation-manager /venv/ansible
- EXECUTION NODE: .206
- INSTANCE GROUP: [Group]
- EXTRA VARIABLES: YAML, JSON, EXPAND




**Job Execution Log:**

```

16 changed: [ { } ]
17
18 TASK [Open port 80 for http access] ***** 17:33:01
19 changed: [ { } ]
20
21 TASK [Restart the firewall service to load in the
22 firewall changes] ***** 17:33:02
23 changed: [ { } ]
24
25 PLAY RECAP ***** 17:33:03
26
ok=5 changed=4 unre
schable=0 failed=0 skipped=0 rescued=0
ored=0
  
```

## 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.

|   |           |         |   |
|---|-----------|---------|---|
|  OL6 | Inventory | Default |    |
|  OL7 | Inventory | Default |    |
|  OL8 | Inventory | Default |    |

## REST API and CLI support

Oracle Linux Automation Manager provides a REST API for programmatic interaction as well as a 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.

---

## Connect with us

Call **+1.800.ORACLE1** or visit **oracle.com/linux**. Outside North America, find your local office at: **oracle.com/contact**.

 [blogs.oracle.com/linux](https://blogs.oracle.com/linux)  [facebook.com/oraclelinux](https://facebook.com/oraclelinux)  [twitter.com/oraclelinux](https://twitter.com/oraclelinux)

---

Copyright © 2021, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0120

Disclaimer: This document is for informational purposes. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described in this document may change and remains at the sole discretion of Oracle Corporation.