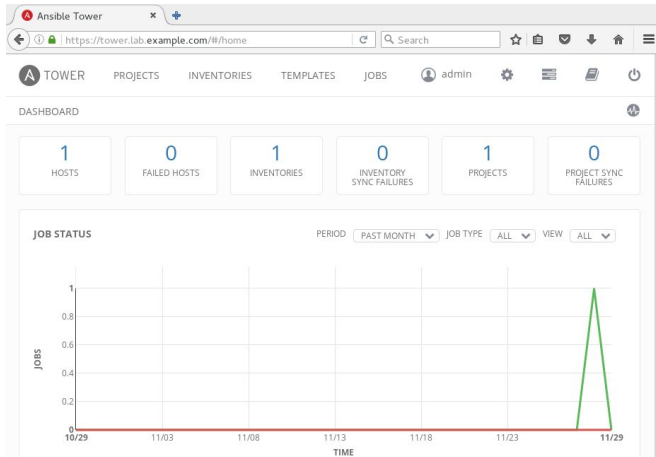


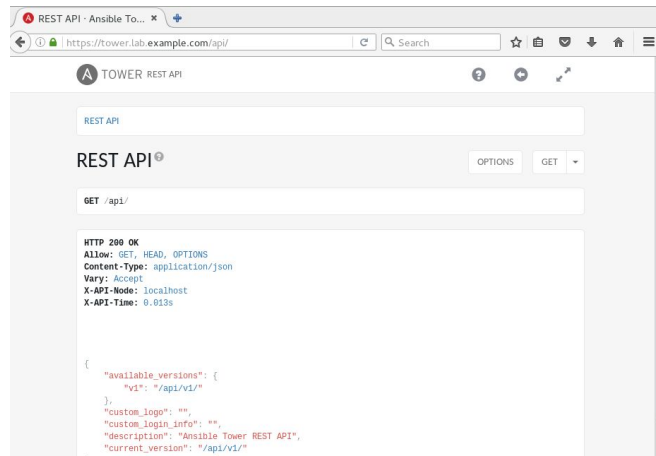
Ansible Tower

Tower 3.3 (Ansible 2.7)

Ansible Tower



Web UI



REST API

License Types

Basic

- Access to subset of features

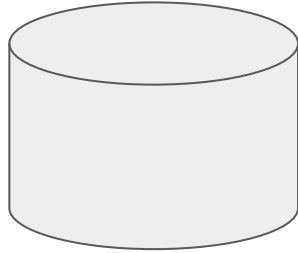
Enterprise

- Access to ALL features including log aggregation and clustering

Tower Benefits

- Visual Dashboard
- RBAC
- Graphical Inventory Management
- Job Scheduling
- Job Reporting - Real-time and Historical
- Push button automation
- Remote Command Execution (ansible ad-hoc command)
- Credential management (ssh keys, SCM, network ...)
- Centralized auditing and logging
- Integrated Notifications
- Multi-playbook workflows
- System tracking
- RESTful API (programmatic access to tower's functionality)

Tower Main Components



PostgresSQL DB

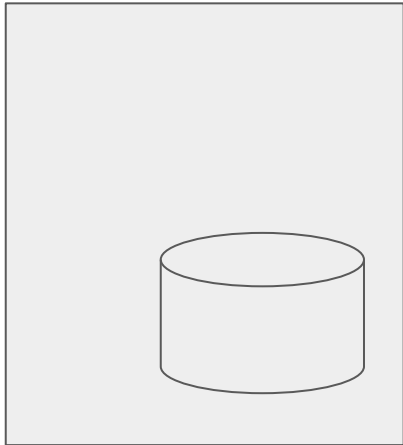


RabbitMQ

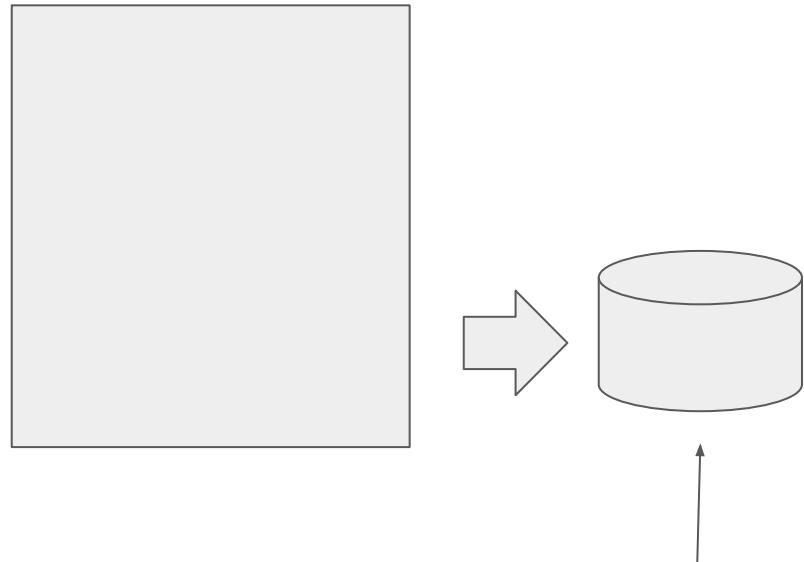
Django Web
Application
(Tower)

Deployment Architectures

Integrated Database
(standard deployment)



Remote Database
(supports active/active clustering)

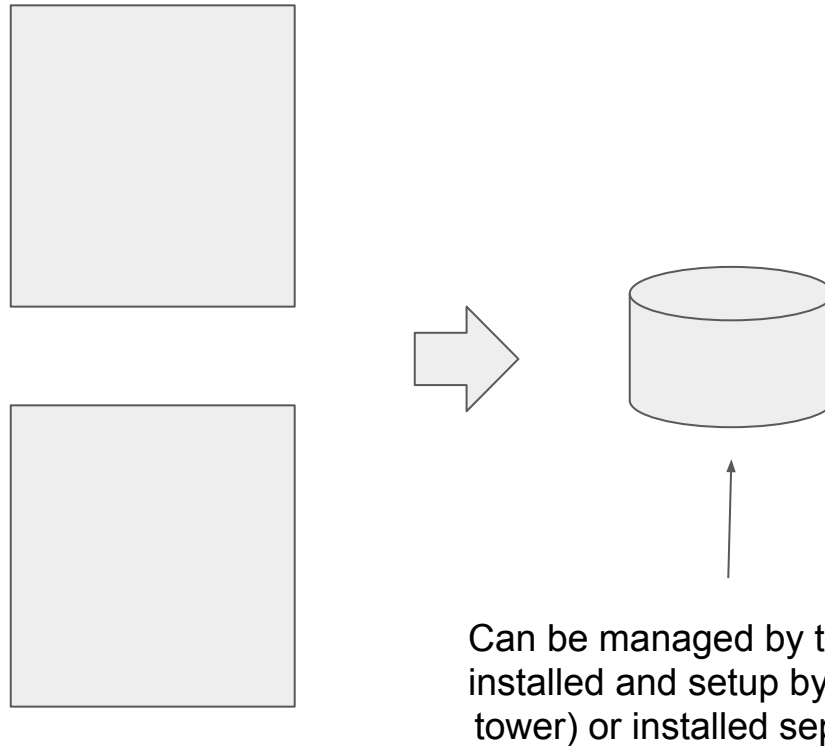


Can be managed by tower (ie installed and setup by ansible tower) or installed separately

Deployment Architectures

Multi-Node for High Availability

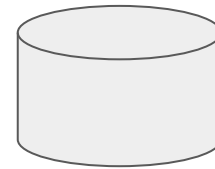
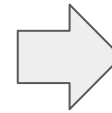
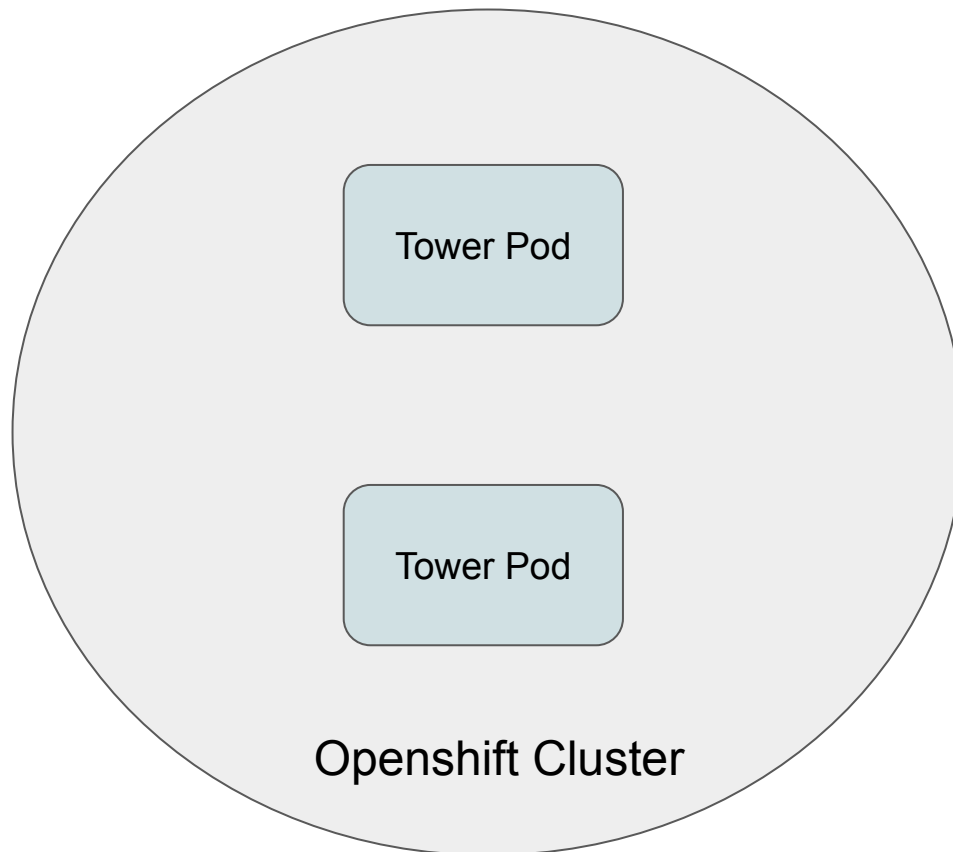
(supports active-active cluster as of 3.1)



Deployment Architectures

Openshift Pods

(supports active-active cluster as of 3.1)



Can be managed by tower (ie installed and setup by ansible tower) or installed separately

Installation Requirements RHEL specific

- RHEL 7.4 64 bit for Ansible Tower 3.3
- Firefox / Chrome with HTML 5 support
- Min 4GB RAM for Tower Host
 - General guideline , 100MB for each additional fork
 - 2GB for tower services
- At least 20GB disk storage for installation with 10GB in /var
 - Refer to documentation on estimating space needed
- Ansible - Tower installation uses a playbook. If ansible not installed the setup script will install ansible
- Access to **Extras** repository
- SELINUX targeted policy (disabled, permissive or enforcing)

* Tower can also be installed in CentOS and Ubuntu

Licensing and Support

Self-Support

- Software updates
- Up to 250 nodes
- No tech support
- No SLA
- Some enterprise features not available

Enterprise Standard

- Software updates
- Price based on no of nodes
- 8x5 support
- SLA
- Playbook support
- All features available

Enterprise Premium

- Software updates
- Price based on no of nodes
- 24x7 support
- SLA
- Playbook support
- All features available

Under “License Features” section of the following URL shows the features available to standard and premium that self-support does not support, for example multi-organization

https://docs.ansible.com/ansible-tower/3.3.2/html/installandreference/updates_support.html#license-features

Installers

Standard Installer

- Smaller
- Needs internet access to various repos to download other needed components

Bundled Installer

- Larger
- Does not require internet access
- However, still needs access to RHEL7 and RHEL7 Extras Channels
- Not available for Ubuntu

Standard Deployment - integrated database

1. Download the bundle to the machine you want to install Tower (as root)
2. Extract the bundle (tar file)
3. Update the **inventory** file for passwords for tower, postgresql and rabbitmq
4. Run the **setup.sh** script (takes time)
5. Access the tower web UI
6. Login
7. License file + agreement

Guided Exercise

Installing Ansible Tower



Welcome to Ansible Tower! Please sign in.

USERNAME

PASSWORD

SIGN IN



TOWER LICENSE

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VIEWS

 Dashboard

 Jobs

 Schedules

 My View

RESOURCES

 Templates

 Credentials

 Projects

 Inventories

 Inventory Scripts

ACCESS

 Organizations

DASHBOARD

2

HOSTS

0

FAILED HOSTS

2

INVENTORIES

0

INVENTORY SYNC
FAILURES

1

PROJECTS

0

PROJECT SYNC FAILURES

JOB STATUS

PERIOD

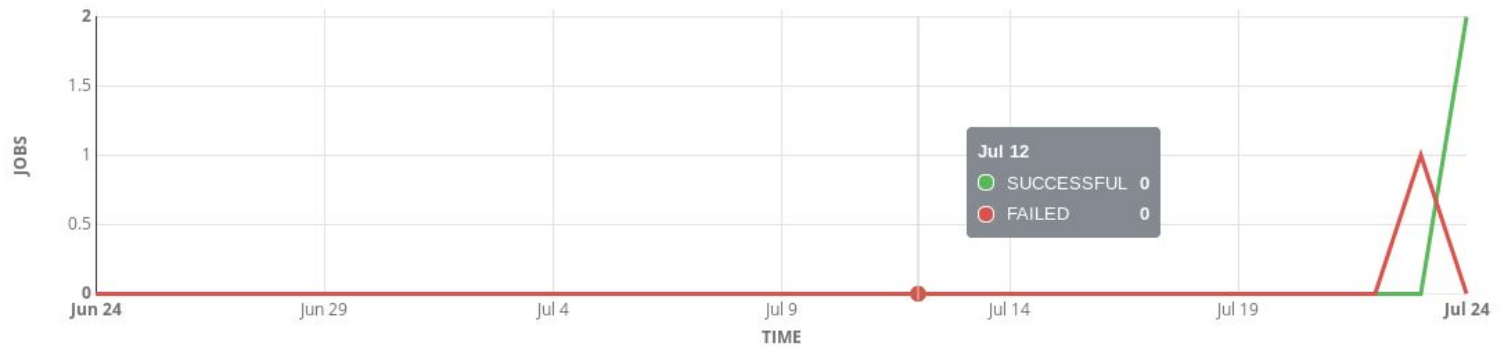
PAST MONTH

JOB TYPE

ALL

VIEW

ALL



ansible-tower-service command

```
# ansible-tower-service status
```

```
Showing Tower Status
```

```
Redirecting to /bin/systemctl status postgresql-9.4.service
```

```
● postgresql-9.4.service - PostgreSQL 9.4 database server
```

```
Loaded: loaded (/usr/lib/systemd/system/postgresql-9.4.service; enabled; vendor preset: disabled)
```

```
Active: active (running) since Mon 2017-11-27 22:31:12 MYT; 1h 49min ago
```

```
...
```

```
Status of node rabbitmq@localhost ...
```

```
[{pid,18317},
```

```
{running_applications,
```

```
[{rabbitmq_federation_management,"RabbitMQ Federation Management",  
  "3.6.5"},
```

```
{rabbitmq_federation,"RabbitMQ Federation","3.6.5"},
```

```
{rabbitmq_management_visualiser,"RabbitMQ Visualiser","3.6.5"},
```

```
{rabbitmq_management,"RabbitMQ Management Console","3.6.5"},
```

```
...
```

```
Redirecting to /bin/systemctl status nginx.service
```

```
● nginx.service - The nginx HTTP and reverse proxy server
```

```
Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; vendor preset: disabled)
```

```
Active: active (running) since Mon 2017-11-27 22:42:07 MYT; 1h 38min ago
```

```
...
```

ansible-tower-service command

```
[root@tower ~]# ansible-tower-service --help
Ansible Tower service helper utility
Usage: /usr/bin/ansible-tower-service {start|stop|restart|status}
[root@tower ~]#
[root@tower ~]#
[root@tower ~]# ansible-tower-service stop
Stopping Tower
Redirecting to /bin/systemctl stop postgresql-9.4.service
Stopping rabbitmq-server (via systemctl): [ OK ]
Redirecting to /bin/systemctl stop nginx.service
Redirecting to /bin/systemctl stop supervisord.service
[root@tower ~]#
[root@tower ~]#
[root@tower ~]# ansible-tower-service start
Starting Tower
Redirecting to /bin/systemctl start postgresql-9.4.service
Starting rabbitmq-server (via systemctl): [ OK ]
Redirecting to /bin/systemctl start nginx.service
Redirecting to /bin/systemctl start supervisord.service
```

To show tower UI, use the normal Red Hat slides which contains the screenshots of tower UI