

# Integrating Ansible Tower

---



**Matt Conran**

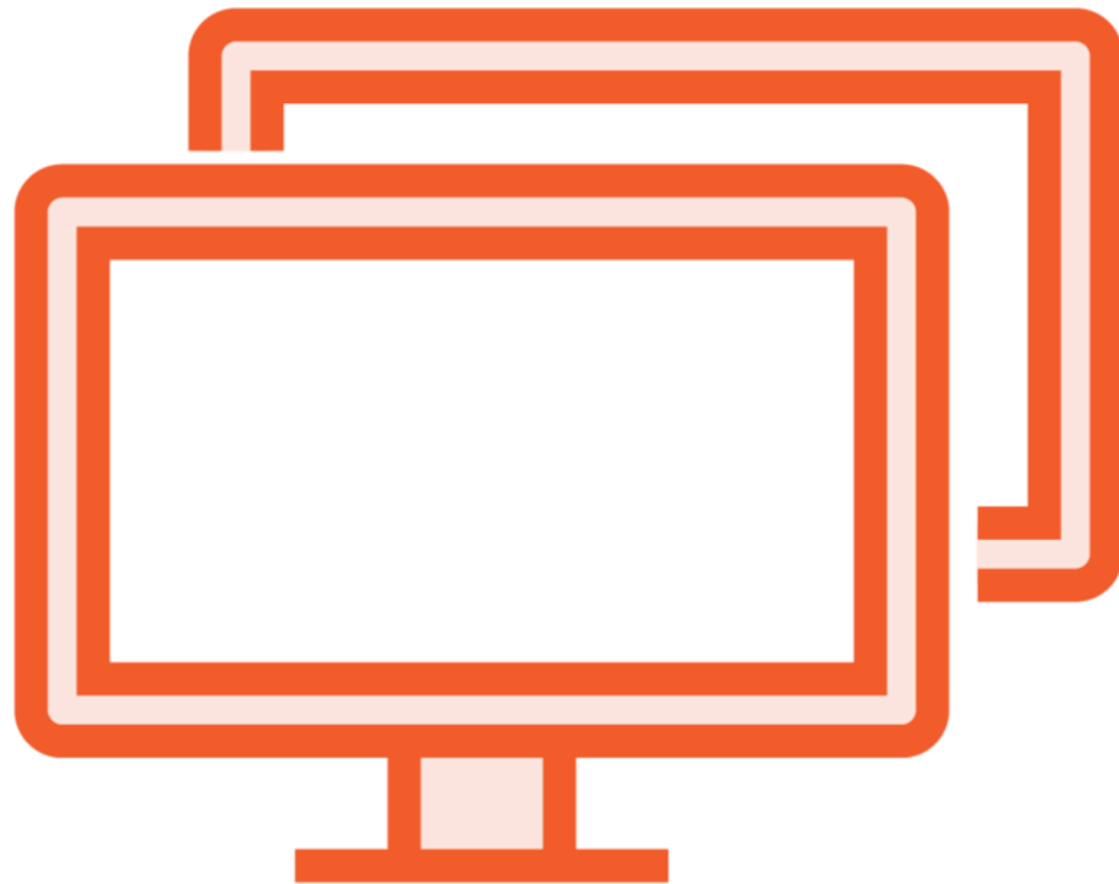
THE NETWORK ARCHITECT

@networkinsightM [www.network-insight.net](http://www.network-insight.net)



# Module Overview



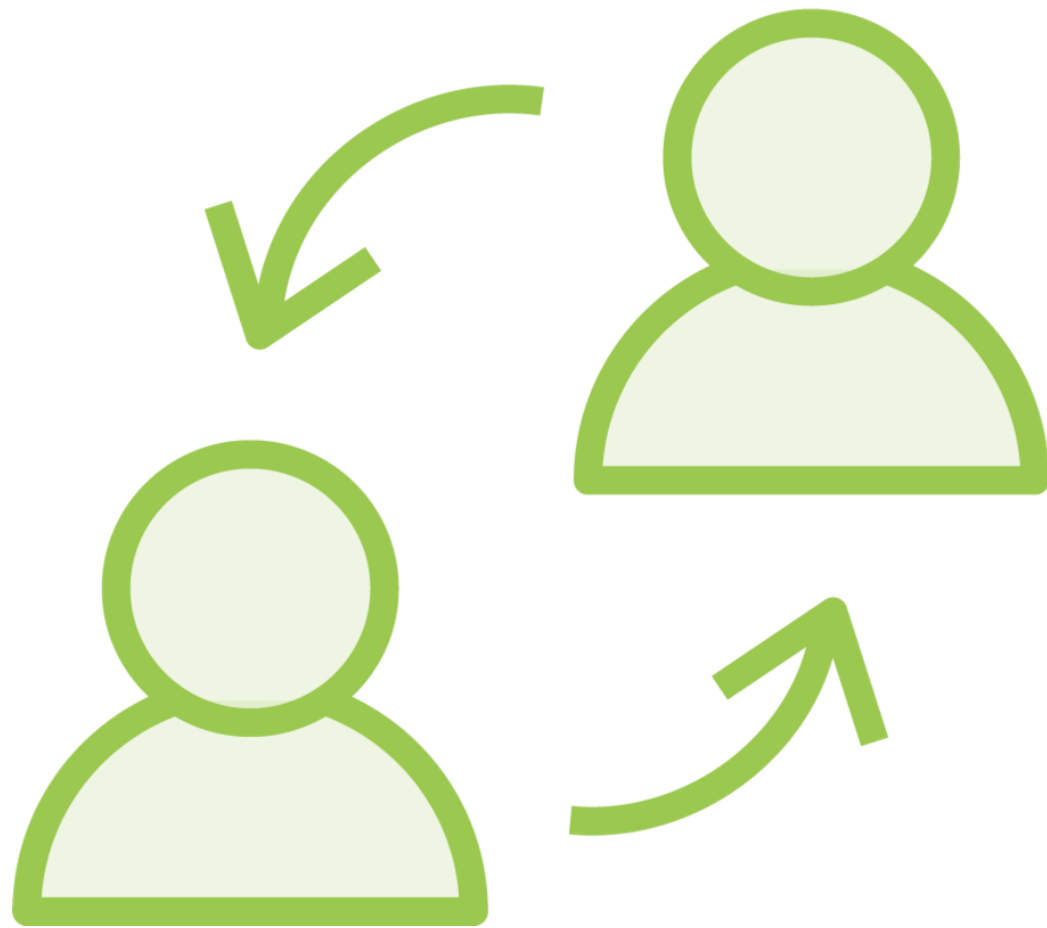


## Adopt software development methodologies

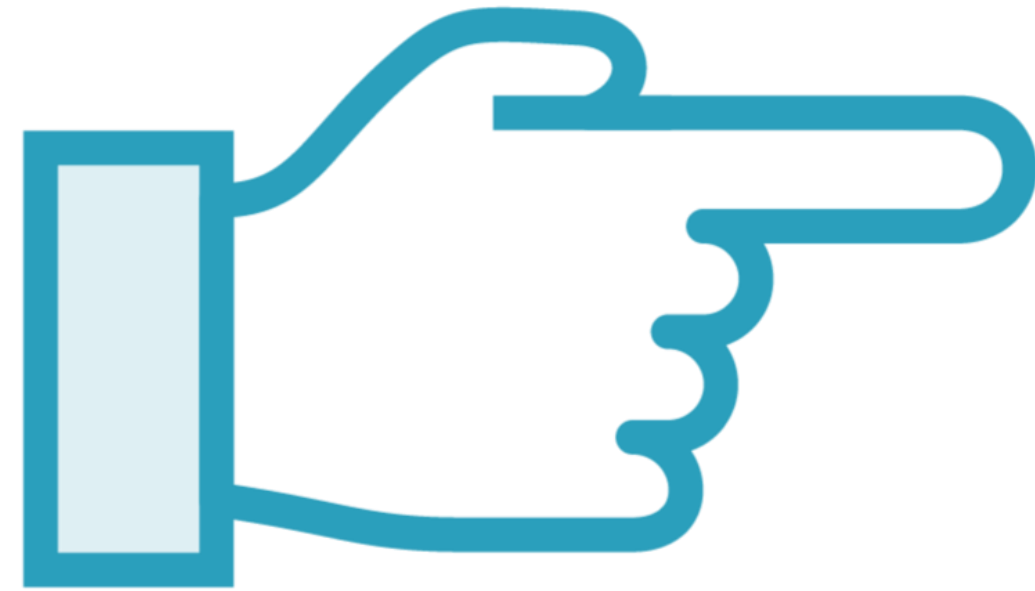
### Ensuring consistency

- Job check feature
- Automated testing
- Ansible and CI/CD integration
- Autoscaling and provisioning callback
- Inventory types

# Continuous Integration and Deployment



**Shell scripting**



**The role of Jenkins**

# Centralized Logging and Audit Trail



**An audit trail to watch for actions**



**Centralized logging such as ELK stack**



**Collecting metrics with Prometheus**



# Security Best Practices

**Security best practices**

**External authentication store**

**Minimize access**

**Separation of duties**



I need to get  
jobs running  
faster



The  
infrastructure  
can support the  
load. Increase  
the forks

Administrator



Let us use fact  
caching too



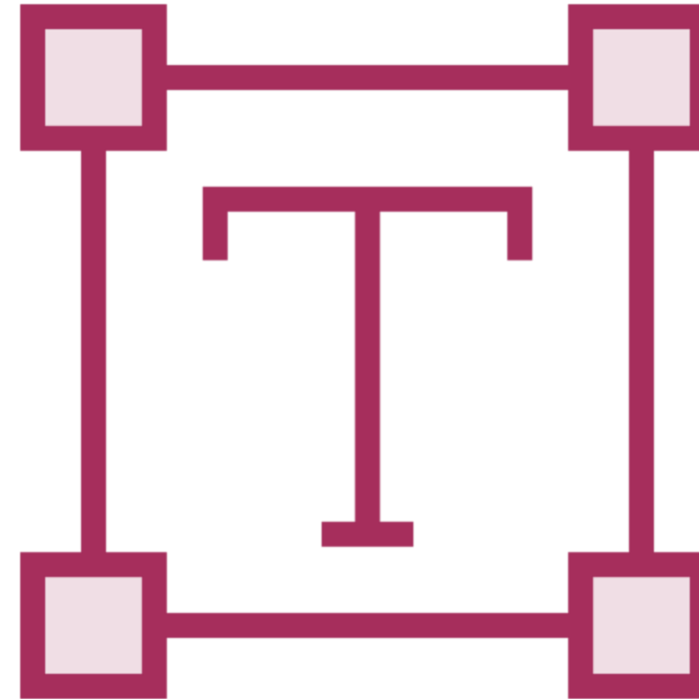
# Ansible Tower Surveys



**Detailing  
surveys**



**Variable  
preference**



**Variety of  
answer types**

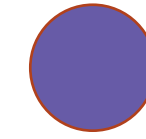
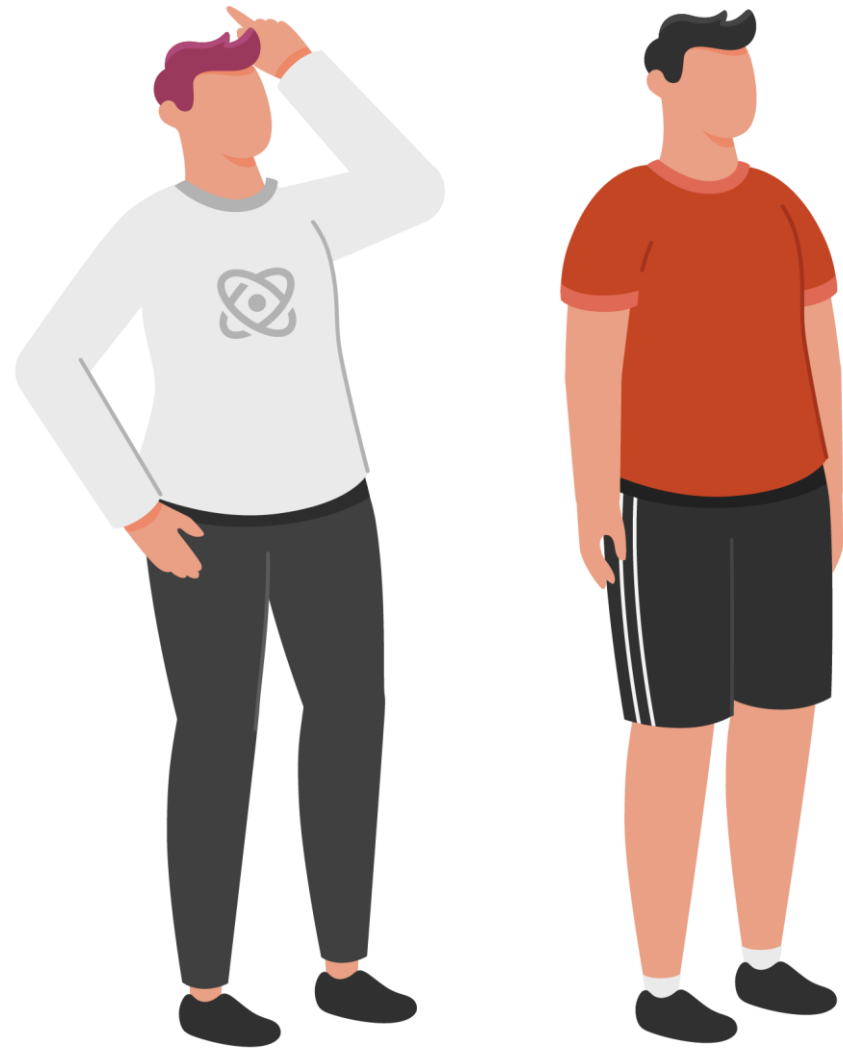


**Summary of  
surveys**

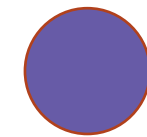
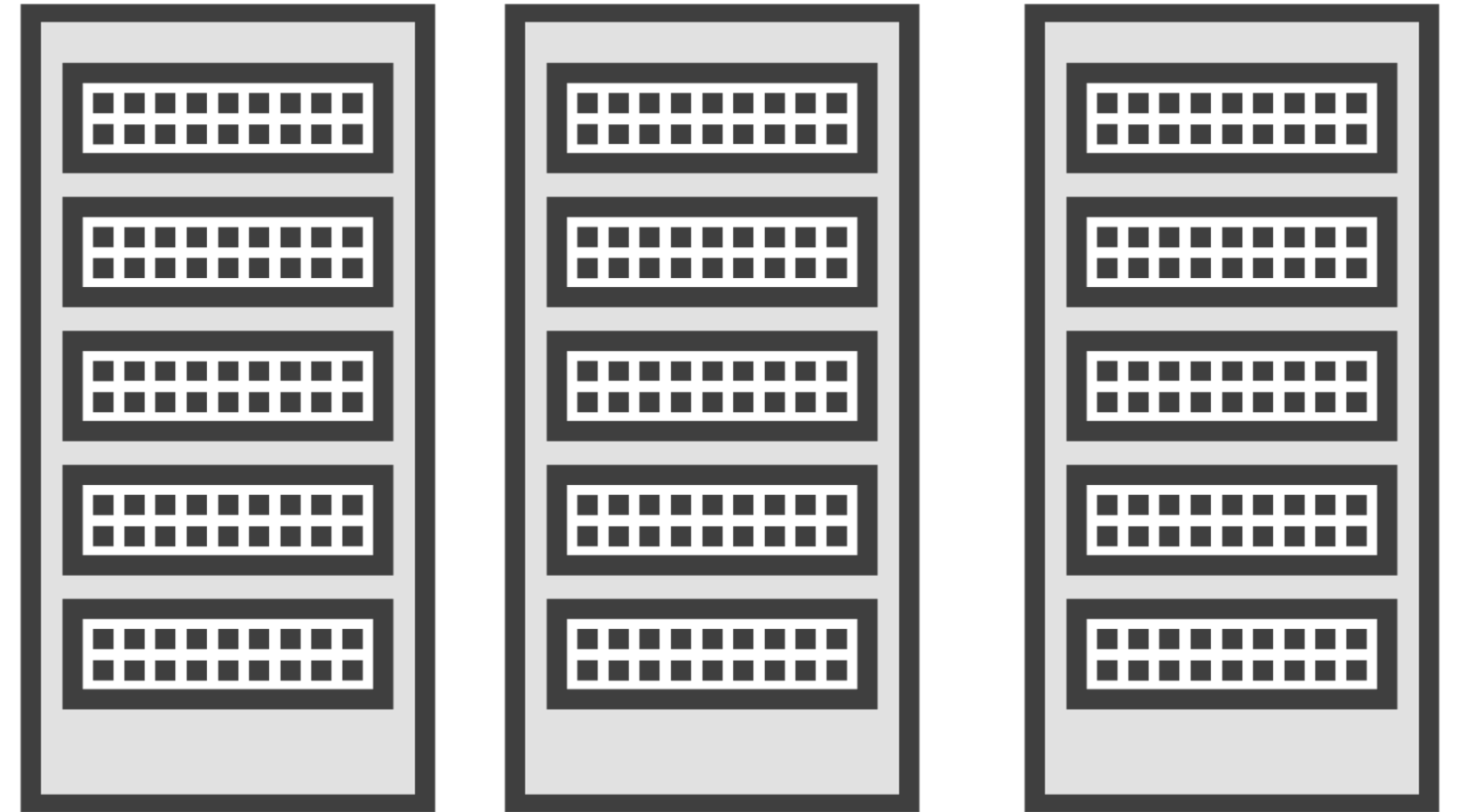
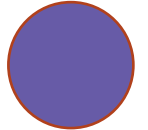


What's a variable?

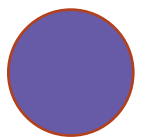
Normal Text



Converted to variables



Converted to variables



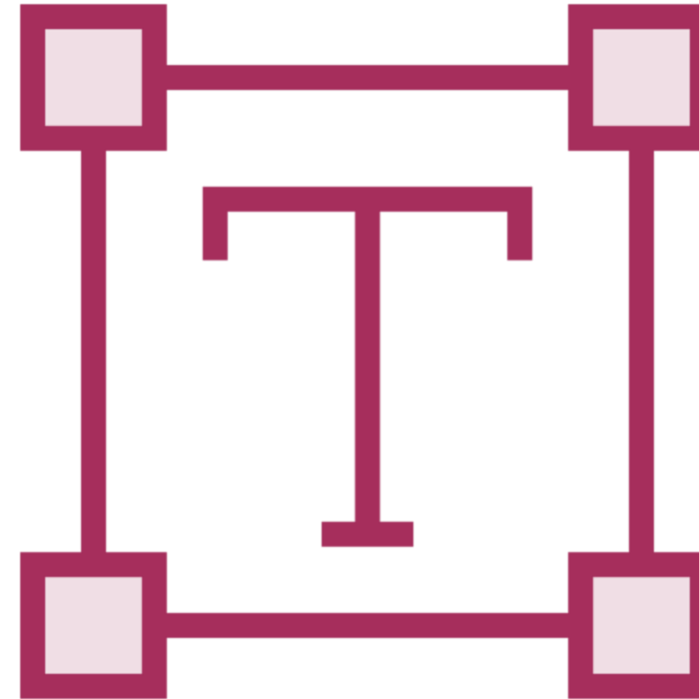
# Ansible Tower Surveys



**Detailing  
surveys**



**Variable  
preference**



**Variety of  
answer types**



**Summary of  
surveys**



**Discussing schedules**

**Scheduling examples**

**Notifications**

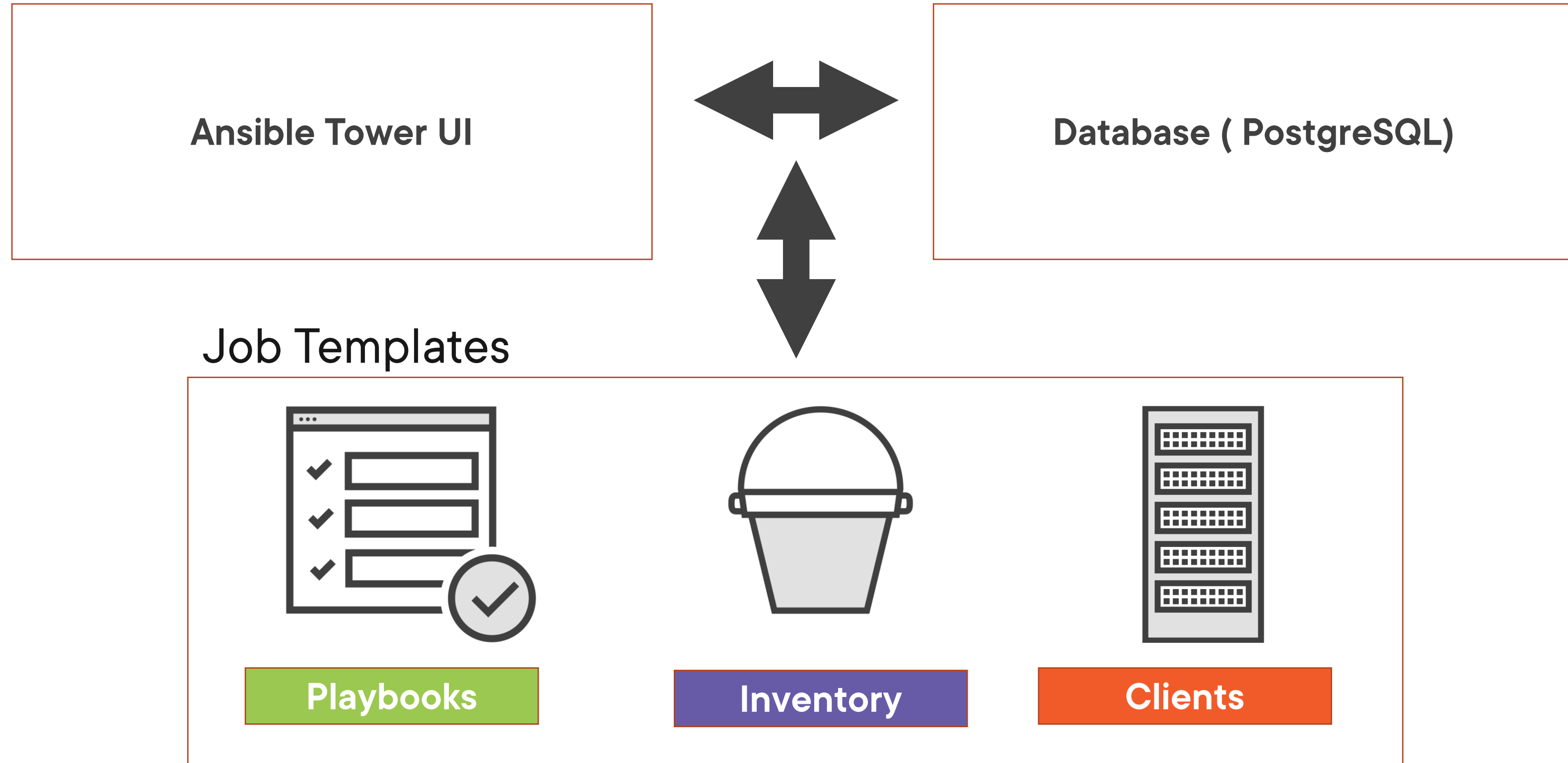
**Highlighting workflows**

**Automated as much as you can**

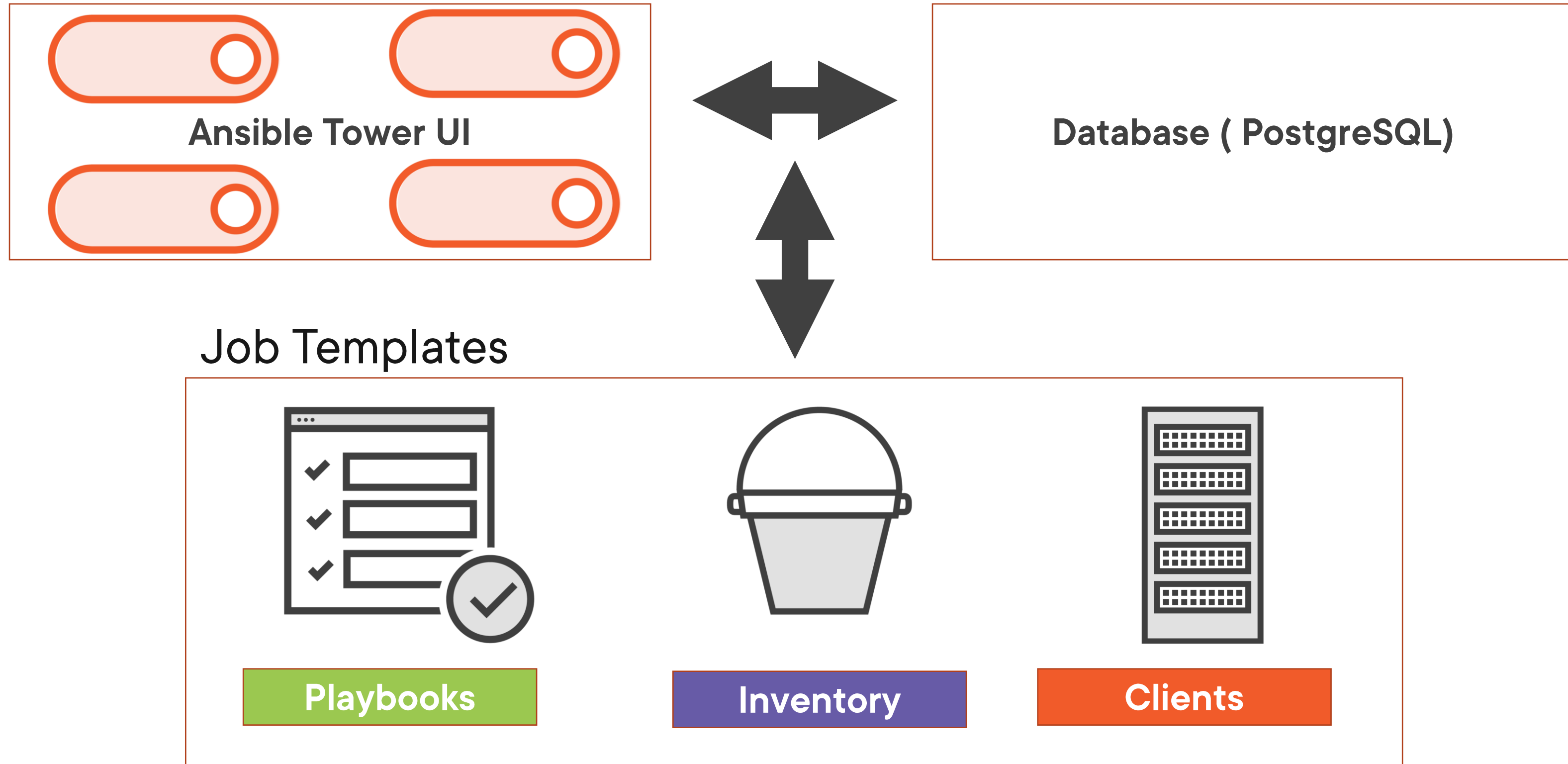
- Job templates
- Workflow templates
- Project syncs
- Inventory source syncs



# Ansible Tower High Availability



# Ansible Tower High Availability





## Clustering basics

### Ansible Tower clustering

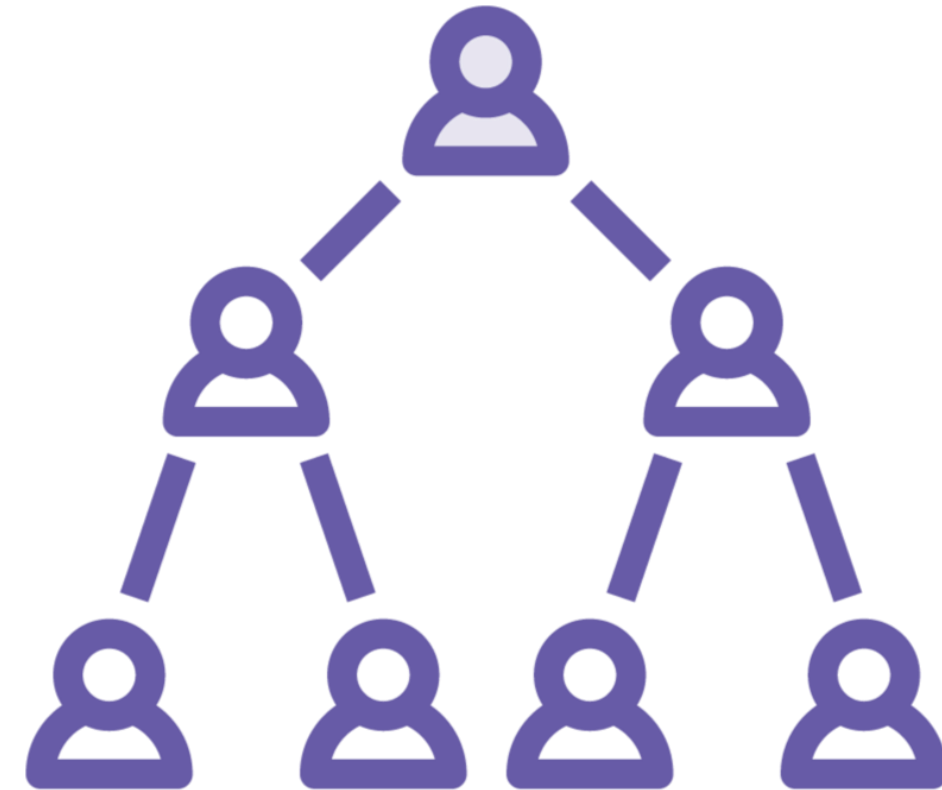
### High availability with Ansible Tower

- Ansible Tower version 3.1
- Ansible Tower version 3.1 and instance groups
- Supported instances

# Ansible Tower Clustering



**Instance groups and isolated nodes**



**Deployment examples**

# Clustering Recommendation

**Clustering design**

**Instance group  
recommendations**

**Organization,  
inventory and job  
template**

**Policies and pinning**

**Isolated nodes**

**Scenario: Isolated  
nodes**

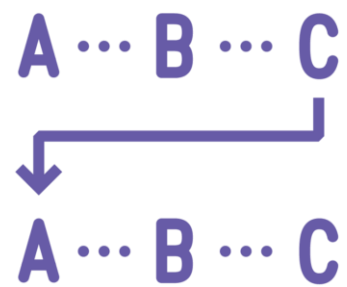




# Running Jobs in a Cluster



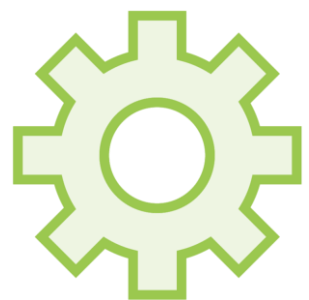
**Introduction to running jobs in a cluster**



**Dispatcher queue**



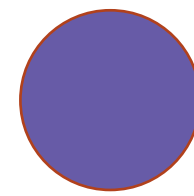
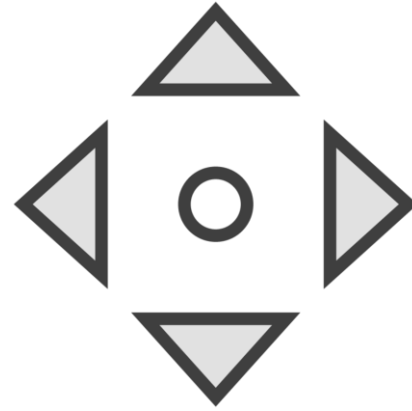
**Controlling job behaviour**



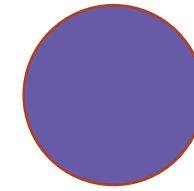
**OpenShift: container-based clusters**



Route  
Construct



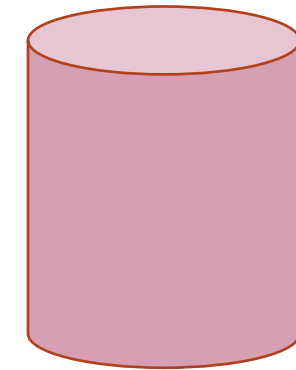
SSL Termination



DNS Resolution

**Tower Web Service**

PostgreSQL



**Tower POD**

Inter-Pod Communication



**Tower POD**



# Module Summary



# Course Summary

