



# RedHat Certified Specialist in Advanced Automation: Ansible Best Practices exam

## Study points for the course & exam

You should be able to accomplish the following grouped tasks without assistance:

- **Understand and use Git**
  - Clone a Git repository
  - Update, modify and create files in a Git repository
  - Add those modified files back into the Git repository
- **Manage inventory variables**
  - Structure host and group variables using multiple files per host or group
  - Use special variables to override the host, port, or remote user Ansible uses for a specific host
  - Set up directories containing multiple host variable files for some of your managed hosts
  - Override the name used in the inventory file with a different name or IP address
- **Manage task execution**
  - Control privilege execution
  - Run selected tasks
- **Transform data with filters and plugins**
  - Populate variables with data from external sources using lookup plugins
  - Use lookup and query functions to template data from external sources into playbooks and deployed template files
  - Implement loops using structures other than simple lists using lookup plugins and filters
  - Inspect, validate, and manipulate variables containing networking information with filters



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- **Delegate tasks**
  - Run a task for a managed host on a different host, then control whether facts gathered by that task are delegated to the managed host or the other host
- **Install Ansible Tower**
  - Perform basic configuration of Ansible Tower after configuration
- **Manage access for Ansible Tower**
  - Create Ansible Tower users and teams and make associations of one to the other
- **Manage inventories and credentials**
  - Manage advanced inventories
  - Create a dynamic inventory from an identity management server or a database server
  - Create machine credentials to access inventory hosts
  - Create a source control credential
- **Manage projects**
  - Create a job template
- **Manage job workflows**
  - Create a job workflow template
- **Work with the Ansible Tower API**
  - Write an API scriptlet to launch a job
- **Back up Ansible Tower**
  - Back up an instance of Ansible Tower

As with all Red Hat performance-based exams, configurations must persist after reboot without intervention.