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# RedHat Certified Specialist in Linux Diagnostics and Troubleshooting exam

## Study points for the course & exam

To help you prepare, the exam objectives highlight the task areas you can expect to see covered in the exam. Red Hat reserves the right to add, modify, and remove exam objectives. Such changes will be made public in advance.

Candidates for the **Red Hat Certified Specialist in Linux Diagnostics and Troubleshooting** exam should be able to:

- **Understand and employ general methods for troubleshooting**
  - Collect system information to aid in troubleshooting
  - Consult documentation resources to aid in troubleshooting
  - Monitor systems for vital characteristics
  - Configure systems to send log messages to a centralized host
- **Diagnose and troubleshoot system start up issues**
  - Identify and resolve service failures affecting boot
  - Regain root control of a system
  - Troubleshoot boot issues
  - Identify hardware and hardware problems
  - Manage kernel modules and their parameters
- **Diagnose and troubleshoot file system issues**
  - Recover corrupted file systems
  - Recover mis-configured or broken LVM configurations
  - Recover data from encrypted file systems
  - Identify and fix iSCSI issues
- **Resolve package management issues**
  - Resolve package management dependency issues
  - Recover a corrupted RPM database
  - Identify and restore changed files



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- **Troubleshoot and fix network connectivity issues**
  - Use standard tools to verify network connectivity
  - Identify and fix network connectivity issues
  - Inspect network traffic to aid troubleshooting
- **Diagnose application issues**
  - Identify library dependencies for third-party software
  - Identify if an application suffers from memory leaks
  - Use standard tools to debug an application
  - Identify and fix issues related to SELinux
- **Identify and fix authentication issues**
  - Identify and fix pluggable authentication module (PAM) issues
  - Identify and fix LDAP and Kerberos identity management issues
- **Gather information to aid third party investigation of issues**
  - Create kernel crashdumps
  - Compile and execute SystemTap modules

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