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RedHat Certified Engineer in Red Hat OpenStack exam

Study points for the course & exam

Red Hat recommends that you earn both **RHCSA** and **RHCSA in Red Hat OpenStack** credentials before attempting this exam, but it is not required. Note that to earn the RHCE in Red Hat OpenStack credential, you must be an RHCSA in Red Hat OpenStack and also pass the RHCE in Red Hat OpenStack exam. While it is possible to take these exams out of sequence, Red Hat strongly recommends earning the RHCSA in Red Hat OpenStack credential first.

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.

- **Create and work with virtual devices**
  - Implement and manage Linux bridges
  - Implement and manage OpenvSwitch bridges
  - Implement and manage libVirt bridges
- **Manage OpenStack networking agents**
  - Provision tenant networks with DHCP agents
  - Enable the Load Balancer as a Service (LBAAS) and deploy instances using the LBAAS
  - Manage metadata agent
  - Manage metering agent
- **Deploy IPv6 networks in OpenStack**
  - Create a tenant network with IPv4 and IPv6
  - Attach an IPv6 floating IP to an instance

- **Provision OpenStack networks**
  - Implement network namespaces
  - Provision tenant networks using VXLAN, VLAN, and GRE
- **Implement distributed virtual routing (DVR)**
  - Create a DVR router
  - Create instances that use the DVR router
- **Tune network functions virtualization (NFV) performance**
  - Deploy EPA
  - Tune cloud applications
- **Implement NFV datapaths**
  - Deploy OpenvSwitch Data Plane Development Kit (OVS-DPDK)
  - Configure Red Hat OpenStack Platform so that instances can use OVS-DPDK
  - Configure quality of service (QoS) limits
- **Build software-defined networks with OpenDaylight**
  - Implement OpenDaylight
  - Manage networks with OpenDaylight

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