

## **Red Hat Certified Specialist in Cloud Infrastructure**

### **Course Content:**

1. **Manage the Red Hat OpenStack Platform Control Plane**
  - Manage control plane services, backup, restore, and control overcloud operations.
2. **Manage Infrastructure Security**
  - Handle secure services, file-based security with AIDE, and user security with integrated IdM back-end configuration.
3. **Manage Project Organization**
  - Create domains, maintain token keys, and customize user roles for client organizations.
4. **Manage Application Deployment Resources**
  - Create and customize images, flavors, and initialize instances during deployment.
5. **Manage Storage in Red Hat OpenStack Platform**
  - Configure and manage Ceph and Swift storage clusters dedicated to OpenStack.
6. **Manage Networking**
  - Configure Open Virtual Networking (OVN), manage shared networks, and monitor networking services.
7. **Manage Compute Node Operations**
  - Administer compute nodes, manage resource capacity, and rebalance workloads across nodes.
8. **Monitor Operations**
  - Implement the Service Telemetry Framework and manage logging for Red Hat OpenStack services and components.
9. **Automate Cloud Application Deployment**
  - Write Heat orchestration templates, deploy applications with Ansible, and create load-balanced application stacks.
10. **Troubleshoot Operations**
  - Diagnose core issues, trace Heat stack events, and troubleshoot deployment failures.