



Securing Networks with Cisco Routers and Switches (642-637)

Exam Description: The 642-637 Securing Networks with Cisco Routers and Switches exam is the exam associated with the CCSP®, CCNP® Security, and Secure IOS specialization certification. This 90-minute, 60–70 questions, exam tests a candidate's knowledge of the skills needed to secure Cisco IOS Software router and switch-based networks, and provide security services based on Cisco IOS Software. Candidates can prepare for this exam by taking the SECURE Securing Networks with Cisco Routers and Switches course. The recommended exam pre-requisites for this exam are ICND1, ICND2, and IINS. The exam is closed book and no outside reference materials are allowed.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 42%** **1.0** **Pre-Production Design**
 - 1.1 Choose Cisco IOS technologies to implement HLD
 - 1.2 Choose Cisco products to implement HLD
 - 1.3 Choose Cisco IOS features to implement HLD 2
 - 1.4 Integrate Cisco network security solutions with other security technologies
 - 1.5 Create and test initial Cisco IOS configurations for new devices/services

- 47%** **2.0** **Complex Support Operations**
 - 2.1 Optimize Cisco IOS security infrastructure device performance
 - 2.2 Create complex network security rules to meet the security policy requirements
 - 2.3 Optimize security functions, rules, and configuration
 - 2.4 Configure and verify NAT to dynamically mitigate identified threats to the network
 - 2.5 Configure and verify IOS Zone Based Firewalls including advanced application inspections and URL filtering
 - 2.6 Configure and verify the IPS features to identify threats and dynamically block them from entering the network
 - 2.7 Maintain, update and tune IPS signatures
 - 2.8 Configure and verify IOS VPN features
 - 2.9 Configure and verify layer 2 and layer 3 security features

- 11%** **3.0** **Advanced Troubleshooting**
 - 3.1 Advanced Cisco IOS security software configuration fault finding and repairing
 - 3.2 Advanced Cisco routers and switches hardware fault finding and repairing