



250-430: Administration of Blue Coat ProxySG 6.6 Exam

Study Guide v. 1.1

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Recommended Preparation Materials

Recommended Courses and Experience

Instructor Led: <https://www.symantec.com/services/education-services/training-courses>

- ProxySG 6.6 Basic Administration
- ProxySG 6.6 Advanced Administration

eLearning: <https://learn-education.symantec.com/Saba/>

- ProxySG Administration
- ProxySG Professional

Recommended experience working with Symantec Blue Coat ProxySG in a production or lab environment.

Product Documentation Referenced in This Exam

1. ProxySG Technical Support articles, documentation sets, and alerts including, but not limited to:
https://support.symantec.com/en_US/dpl.1145522.html
 - Administration Guide
 - Release Notes

Exam Objectives

The following tables list the Symantec SCS Certification exam objectives for the ProxySG exam and how these objectives align to the corresponding Symantec courses and the referenced documentation.

For more information on the Symantec Certification Program, visit <http://go.symantec.com/certification>

EXAM SECTION 1: Introduction to the Symantec Blue Coat ProxySG Secure Web Gateway

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the functions of a proxy server	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Basic course)—Introduction to the Symantec Blue Coat ProxySG Secure Web Gateway
Differentiate proxy servers from firewalls	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Basic course)—Introduction to the Symantec Blue Coat ProxySG Secure Web Gateway
Describe the key features and benefits of the Symantec Blue Coat ProxySG	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Basic course)—Introduction to the Symantec Blue Coat ProxySG Secure Web Gateway
List the various ProxySG models	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Basic course)—Introduction to the Symantec Blue Coat ProxySG Secure Web Gateway
Access online Symantec community resources	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Basic course)—Introduction to the Symantec Blue Coat ProxySG Secure Web Gateway

EXAM SECTION 2: Symantec Blue Coat ProxySG Security Deployment Options

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the three network deployment methods	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 2 (Basic)—Symantec Blue Coat ProxySG Security Deployment Options
Describe the three possible roles of the ProxySG	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 2 (Basic)—Symantec Blue Coat ProxySG Security Deployment Options

EXAM SECTION 3: Initial Configuration

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Access the ProxySG and perform initial configuration	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 3 (Basic)—Initial Configuration
Describe the two SGOS editions and various license types	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 3 (Basic)—Initial Configuration
Understand the optional capabilities available with SGOS	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 3 (Basic)—Initial Configuration

EXAM SECTION 4: ProxySG Management Console

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the relationship between the Management Console and the ProxySG CLI	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 4 (Basic): ProxySG Management Console
Describe the primary function of the major areas of the Management Console	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 4 (Basic): ProxySG Management Console
Use the Management Console to access on-box help and Symantec product documentation	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 4 (Basic): ProxySG Management Console

EXAM SECTION 5: Traffic Interception using Proxy Services

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Understand the functions of proxy services, listeners, and proxy types	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Basic): Traffic Interception using Proxy Services
Describe the three most common proxy services	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Basic): Traffic Interception using Proxy Services
Explain how the intercept and bypass settings affect what happens to network traffic passing through the ProxySG	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Basic): Traffic Interception using Proxy Services
Explain the function of common global proxy service settings	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Basic): Traffic Interception using Proxy Services

EXAM SECTION 6: Hypertext Transport Protocol

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Understand how a connection is initiated over the transport layer	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 6 (Basic): Hypertext Transport Protocol
Identify the components of an HTTP URL	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 6 (Basic): Hypertext Transport Protocol
Explain the two types of HTTP messages: request and response	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 6 (Basic): Hypertext Transport Protocol

EXAM SECTION 7: Introduction to the Visual Policy Manager

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the relationship among the VPM, CPL, and the Management Console	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 7 (Basic): Introduction to the Visual Policy Manager
Describe the default processing order for policy layers and rules	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 7 (Basic): Introduction to the Visual Policy Manager
Describe triggers and actions that can be used in writing policy	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 7 (Basic): Introduction to the Visual Policy Manager

EXAM SECTION 8: Filtering Web Content

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the main concepts of web filtering	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Basic): Filtering Web Content
Describe the primary category databases	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Basic): Filtering Web Content

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the category types available to policy	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Basic): Filtering Web Content
Describe how Blue Coat WebFilter and WebPulse work together	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Basic): Filtering Web Content

EXAM SECTION 9: Using Threat Intelligence to Defend the Network

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Understand Intelligence Services as provided by the Global Intelligence Network	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 9 (Basic): Using Threat Intelligence to Defend the Network
Understand Geolocation and Threat Risk Levels and how they can be used in policy	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 9 (Basic): Using Threat Intelligence to Defend the Network

EXAM SECTION 10: Ensuring Safe Downloads

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe how malware can be transmitted via HTTP	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 10 (Basic): Ensuring Safe Downloads
Explain the methods, advantages, and disadvantages of file type detection	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 10 (Basic): Ensuring Safe Downloads
Describe some of the considerations in deciding what content to block as possible malware sources	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 10 (Basic): Ensuring Safe Downloads

EXAM SECTION 11: Notifying Users of Internet Usage Policies

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Explain the function and various components of built-in and custom exception pages	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Basic): Notifying Users of Internet Usage Policies
Describe the function of Notify User objects	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Basic): Notifying Users of Internet Usage Policies
Identify the types of pages that can be sent to users by using Notify User objects	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Basic): Notifying Users of Internet Usage Policies
Describe splash pages and coaching pages using Notify User objects in the VPM	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Basic): Notifying Users of Internet Usage Policies

EXAM SECTION 12: Access Logging on the ProxySG

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe, at a high level, how the ProxySG performs access logging	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 12 (Basic): Access Logging on the ProxySG
Describe the components of a ProxySG access log facility	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 12 (Basic): Access Logging on the ProxySG
Identify default log facilities and log formats	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 12 (Basic): Access Logging on the ProxySG
Describe common use cases for periodic and continuous uploading of access logs	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 12 (Basic): Access Logging on the ProxySG

EXAM SECTION 13: Using Authentication Realms

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the benefits of enabling authentication on the ProxySG	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Advanced): Using Authentication Realms
Describe, at a high level, the ProxySG authentication architecture	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Advanced): Using Authentication Realms
Understand the use of IWA realms, with both IWA Direct and IWA BCAA connection methods	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 1 (Advanced): Using Authentication Realms

EXAM SECTION 14: Understanding Authentication Credentials

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe how NTLM and Kerberos authentication work in both IWA direct and IWA BCAA deployments	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 2 (Advanced): Understanding Authentication Credentials
Configure the ProxySG to use Kerberos authentication	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 2 (Advanced): Understanding Authentication Credentials

EXAM SECTION 15: Understanding Authentication Modes

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe authentication surrogates and authentication modes	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 3 (Advanced): Understanding Authentication Modes

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe ProxySG authentication in both explicit and transparent deployment mode	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 3 (Advanced): Understanding Authentication Modes

EXAM SECTION 16: Understanding HTTPS

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe key components of SSL encryption	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 4 (Advanced): Understanding HTTPS
Describe how the SSL handshake works	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 4 (Advanced): Understanding HTTPS
Describe some of the legal and security considerations related to use of the SSL proxy	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 4 (Advanced): Understanding HTTPS

EXAM SECTION 17: Managing SSL Traffic on the ProxySG

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe how the SSL proxy service handles SSL traffic	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Advanced): Managing SSL Traffic on the ProxySG
Describe the standard keyrings that are installed by default on the ProxySG	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Advanced): Managing SSL Traffic on the ProxySG
Identify the types of security certificates that the ProxySG uses	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 5 (Advanced): Managing SSL Traffic on the ProxySG

EXAM SECTION 18: Optimizing SSL Interception Performance

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Configure the ProxySG to process SSL traffic according to best practices for performance	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 6 (Advanced): Optimizing SSL Interception Performance

EXAM SECTION 19: SGOS Architecture

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Identify key components of SGOS	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 7 (Advanced): SGOS Architecture
Explain the interaction among client workers and software workers in processing client requests	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 7 (Advanced): SGOS Architecture
Explain the significance of policy checkpoints	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 7 (Advanced): SGOS Architecture

EXAM SECTION 20: Caching Architecture

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the benefits of object caching on the ProxySG.	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Advanced): Caching Architecture
Explain the caching-related steps in a ProxySG transaction.	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Advanced): Caching Architecture

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Identify and describe the HTTP request and response headers related to caching.	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 8 (Advanced): Caching Architecture

EXAM SECTION 21: System Diagnostics on the ProxySG

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the use of the health monitor and health checks	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 9 (Advanced): System Diagnostics on the ProxySG
Explain the use of the event and access logs	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 9 (Advanced): System Diagnostics on the ProxySG
Describe the information available in advanced URLs and sysinfo files	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 9 (Advanced): System Diagnostics on the ProxySG
Describe the function of policy tracing and packet captures	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 9 (Advanced): System Diagnostics on the ProxySG

EXAM SECTION 22: Introduction to CPL

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Describe the fundamental concepts and purposes of ProxySG policy transactions	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 10 (Advanced): Introduction to CPL
Understand the relationship of layers, rules, conditions, properties, and triggers	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 10 (Advanced): Introduction to CPL
Describe the two types of actions in CPL	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 10 (Advanced): Introduction to CPL

EXAM SECTION 23: Using Policy Tracing for Troubleshooting

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Identify the two main types of ProxySG policy traces	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Advanced): Using Policy Tracing for Troubleshooting
Describe the various sections of a policy trace result	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Advanced): Using Policy Tracing for Troubleshooting
Configure a global and policy-driven trace	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Advanced): Using Policy Tracing for Troubleshooting
Access and interpret policy trace results	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 11 (Advanced): Using Policy Tracing for Troubleshooting

EXAM SECTION 24: ProxySG Integration

Exam Objectives	Topics from <i>ProxySG v6.6 Documentation and Courses</i>
Identify other Symantec products that can be used as part of a complete security solution	<ul style="list-style-type: none"> • Course: Symantec Blue Coat ProxySG Administration v6.6 <ul style="list-style-type: none"> ○ Module 12 (Advanced): ProxySG Integration