

IBM Professional Certification Program

Study Guide Series

Exam C1000-156 IBM Security QRadar SIEM V7.5 Administration

Purpose of Exam Objectives

When an exam is being developed, a team of Subject Matter Experts work together to define the job role the individual will fill. They define all the tasks and knowledge that an individual would need to have to successfully perform that role. This creates the foundation for the objectives and measurement criteria, the foundation of the exam. The item writers used these objectives to write the questions that appear on the exam.

It is recommended that you review these objectives carefully. Do you know how to complete the tasks in the objective? Do you know why that task needs to be done? Do you know what will happen if you do it incorrectly? If you are not familiar with a task, then work through the objective and perform that task in your own environment. Read more information about the task. If there is an objective on a task, it is almost certain that you WILL see questions about it on the actual exam.

After you have reviewed the objectives and completed your own research, don't forget to review the free sample questions for this exam on the IBM Certification website. These sample question come complete with an answer key and will give you a feel for the type and style of question on the actual exam.

After that, take the assessment exam. The questions on the assessment exam were developed at the same time and by the same people who wrote the question on the actual exam. The assessment exam is weighted to be equally difficult to the actual test so your results should be predictive of your expected results on the actual test. While the assessment exam will not tell which questions are answered incorrectly, it will tell you how you did on a section-by-section basis so you will know where to focus your further studies.

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Role Definition

This intermediate level certification is intended for professionals who wish to validate their comprehensive knowledge of IBM Security QRadar SIEM V7.5 Administration.

These administrators will have knowledge and experience in the configuration, performance optimization, tuning, troubleshooting, and ongoing system administration for an IBM Security QRadar SIEM V7.5 on premise deployment. This includes the apps installed with the product: Use Case Manager, QRadar Assistant, Log Source Manager, and Pulse, plus a knowledge of the basic functions of these key IBM-supported apps: User Behavior Analytics, QRadar Deployment Intelligence, Reference Data Management. This does not include the SaaS offering of QRadar on Cloud (QRoC).

Key Areas of Competency

- QRadar troubleshooting
- Searching and reporting
- Rules and building blocks
- Understanding reference data
- Basic QRadar tuning and network hierarchy
- QRadar deployment and component architecture
- Understanding QRadar Event and Flow pipelines
- QRadar user management and data access control
- Basic concepts of multi-domain QRadar instances

Prerequisite Knowledge

Knowledge and foundational skills one must possess before acquiring skills measured on the certification test. These foundational skills are NOT measured on the test.

- Enterprise logging
- Offense and log analysis
- Network monitoring using flows
- QRadar Network Insights, QRadar Incident Forensics
- Basic security technologies, SIEM concepts, TCP/IP networking, IT security concepts, and IT skills

Section 1: System Configuration

This section accounts for 20% of the exam (12 out of 62 questions).

TASK: 1.1 Perform license management SUBTASKS:

- **1.1.1.** Implement and manage shared license pool
- **1.1.2.** Deploy incremental licenses
- 1.1.3. Explain burst handling
- 1.1.4. Upload and allocate a license key to a host
- **1.1.5.** View license details for all QRadar components

REFERENCES:

Burst handling https://www.ibm.com/docs/en/qsip/7.5?topic=capacity-internal-events
Internal events https://www.ibm.com/docs/en/qsip/7.5?topic=capacity-internal-events
Shared license pool https://www.ibm.com/docs/en/qsip/7.5?topic=capacity-incremental-licensing
Incremental licensing https://www.ibm.com/docs/en/qsip/7.5?topic=capacity-incremental-licensing

TASK: 1.2 Administer managed hosts SUBTASKS:

- **1.2.1.** Add/remove managed hosts
- 1.2.2. Edit managed host connections
- **1.2.3.** Update managed hosts
- 1.2.4. Enable/disable encryption
- 1.2.5. Change managed host high availability (HA) configuration

REFERENCES:

 HA Management
 https://www.ibm.com/docs/en/qsip/7.5?topic=deployments-ha-management

 Upgrading QRadar SIEM
 https://www.ibm.com/docs/en/qsip/7.5?topic=upgrading-qradar-siem

Changing where apps are run https://www.ibm.com/docs/en/qsip/7.5?topic=hosts-changing-where-apps-are-run

QRadar Network Insights overview https://www.ibm.com/docs/en/gradar-on-cloud?topic=monitoring-gradar-network-insights-overview

What is a QRadar Data Node Appliance?

QRadar: Finding files that use the most

dish as a QRadar Data Node Appliance?

https://www.ibm.com/support/pages/qradar-finding-files-use-most-disk-space

Changing the network settings of a QRadar Console in a multi-system

https://www.ibm.com/docs/en/qsip/7.5?topic=nsm-changing-network-settings-gradar-console-in-

deployment multi-system multi-system-deployment

Encryption
Managed Hosts

https://www.ibm.com/docs/en/qsip/7.5?topic=hosts-encryption https://www.ibm.com/docs/en/qsip/7.5?topic=management-managed-hosts

TASK: 1.3 Understand distributed architecture SUBTASKS:

1.3.1. Explain network requirements for distributed architecture

1.3.2. Understand and identify components

- Identify Console
- Identify EP/FP
- Identify EC/FC
- Identify AppHost
- Identify Data Node

REFERENCES:

App Host
Data Nodes and data storage
QRadar architecture overview
IBM QRadar: High Availability Guide
Forensics and full packet collection
Geographically distributed deployments
Expanding deployments to add more
capacity
IBM QRadar Network Insights: Installation

IBM QRadar Network Insights: Installation Guide

Common ports and servers used by QRadar

https://www.ibm.com/docs/en/qsip/7.5?topic=deployment-app-host

 $\underline{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=deployment-data-nodes-data-storage}}$

https://www.ibm.com/docs/en/qsip/7.5?topic=deployment-gradar-architecture-overview

https://www.ibm.com/docs/en/SS42VS 7.5/pdf/b gradar ha guide.pdf

https://www.ibm.com/docs/en/qsip/7.5?topic=overview-forensics-full-packet-collection

https://www.ibm.com/docs/en/qsip/7.5?topic=overview-geographically-distributed-deployments

https://www.ibm.com/docs/en/qsip/7.5?topic=overview-expanding-deployments-add-more-capacity

https://www.ibm.com/docs/en/SS42VS 7.5/pdf/b qni ig.pdf

https://www.ibm.com/docs/en/qsip/7.5?topic=problems-common-ports-servers-used-by-qradar

TASK: 1.4 Manage configuration and data backups SUBTASKS:

1.4.1. Understand and configure data retention

1.4.2. Import config backup

- through the GUI
- through file system

1.4.3. Restore config backup options

1.4.4. Schedule config backup

1.4.5. Restore data backup

REFERENCES:

Administration backup and recovery Backup and recovery Data back up and restore Scheduling nightly backup Backup QRadar configurations and data https://www.ibm.com/docs/en/qsip/7.5?topic=administration-backup-recovery https://www.ibm.com/docs/en/qsip/7.5?topic=console-backup-recovery https://www.ibm.com/docs/en/qsip/7.5?topic=installations-data-back-up-restore https://www.ibm.com/docs/en/qsip/7.5?topic=data-scheduling-nightly-backup

https://www.ibm.com/docs/en/qsip/7.5?topic=recovery-backup-gradar-configurations-data

Restore QRadar configurations and data Creating an email notification for a failed

backup Restoring data Data retention https://www.ibm.com/docs/en/qsip/7.5?topic=recovery-restore-qradar-configurations-data

https://www.ibm.com/docs/en/qsip/7.5?topic=data-creating-email-notification-failed-backup

https://www.ibm.com/docs/en/qsip/7.5?topic=data-restoring https://www.ibm.com/docs/en/qsip/7.5?topic=tasks-data-retention

TASK: 1.5 Configure custom SNMP and email templates SUBTASKS:

- 1.5.1. Understand and configure SNMP templates
- **1.5.2.** Understand and configure email templates

REFERENCES:

Customizing the SNMP trap output Configuring custom offense email notifications

Configuring event and flow custom email notifications

https://www.ibm.com/docs/en/qsip/7.5?topic=configuration-customizing-snmp-trap-output https://www.ibm.com/docs/en/qsip/7.5?topic=notifications-configuring-custom-offense-email

 $\underline{https://www.ibm.com/docs/en/qradar-on-cloud?topic=notifications-configuring-event-flow-custom-email}$

TASK: 1.6 Manage network hierarchy SUBTASKS:

- 1.6.1. Update network hierarchy using the GUI
- 1.6.2. Import network hierarchy using the REST-API, CLI or app

REFERENCES:

Defining your network hierarchy

https://www.ibm.com/docs/en/qsip/7.5?topic=nh-defining-your-network-hierarchy

TASK: 1.7 Use and manage reference data SUBTASKS:

- **1.7.1.** Differentiate types of reference data collections
- 1.7.2. Add, edit, and delete reference sets using the GUI
- 1.7.3. View and update the contents of a reference set using the GUI
- 1.7.4. Create and manage reference data collections using the CLI
- 1.7.5. Create and manage reference data collections using REST-API
- 1.7.6. Use AQL to access reference data content

REFERENCES:

Types of reference data collections
Viewing the contents of a reference set
Adding, editing, and deleting reference

https://www.ibm.com/docs/en/qsip/7.5?topic=qradar-types-reference-data-collections https://www.ibm.com/docs/en/qsip/7.5?topic=overview-viewing-contents-reference-set

https://www.ibm.com/docs/en/qsip/7.5?topic=overview-adding-editing-deleting-reference-sets

Creating reference data collections by using the command line Reference data query examples Creating reference data collections with the APIs

 $\frac{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-command-line}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=rdiq-creating-reference-data-collections-by-using-creating-reference-data-collections-by-u$

https://www.ibm.com/docs/en/qsip/7.5?topic=language-reference-data-query-examples

https://www.ibm.com/docs/en/qsip/7.5?topic=gradar-creating-reference-data-collections-apis

TASK: 1.8 Manage automatic update SUBTASKS:

- 1.8.1. Choose appropriate update types for deployment
- **1.8.2.** Understand what security content can be modified by auto updates
- 1.8.3. Configure auto updates
- 1.8.4. Configure auto updates in a non-standard connectivity environment
 - behind a proxy server
 - air-gapped

REFERENCES:

Automatic updates Configuring automatic update settings QRadar: Important auto update server changes for administrators https://www.ibm.com/docs/en/qsip/7.5?topic=configuration-automatic-updates https://www.ibm.com/docs/en/qsip/7.5?topic=updates-configuring-automatic-update-settings

https://www.ibm.com/support/pages/node/6244622

TASK: 1.9 Demonstrate the use of the asset database SUBTASKS:

- 1.9.1. Identify sources of asset data
- 1.9.2. Manually update to asset data
 - API
 - CSV
- 1.9.3. Identify asset growth deviations
- 1.9.4. Tune asset profiler retention
- 1.9.5. Clean/Purge assets

REFERENCES:

QRadar Data Sources QRadar Linux services Sources of asset data Incoming asset data workflow Asset profile data in CSV format Tuning the number of IP addresses allowed for a single asset https://ibm.biz/Technical Sales Foundations for IBM QRadar for Cloud https://www.ibm.com/mysupport/s/forumsquestion?language=en_US&id=0D50z00006PFbXJCA1 https://www.ibm.com/docs/en/qsip/7.5?topic=management-sources-asset-data https://www.ibm.com/docs/en/qsip/7.5?topic=management-incoming-asset-data-workflow https://www.ibm.com/docs/en/qsip/7.5?topic=configuration-asset-profile-data-in-csv-format https://www.ibm.com/docs/en/qsip/7.5?topic=deviations-tuning-number-ip-addresses-allowed-single-asset

Updates to asset data https://www.ibm.com/docs/en/qsip/7.5?topic=management-updates-asset-data

Identification of asset growth deviations https://www.ibm.com/docs/en/qsip/7.5?topic=management-identification-asset-growth-deviations

Clean up asset data after growth deviations https://www.ibm.com/docs/en/qsip/7.5?topic=management-clean-up-asset-data-after-growth-deviations

deviations

Tuning the Asset Profiler retention settings https://www.ibm.com/docs/en/qsip/7.5?topic=deviations-tuning-asset-profiler-retention-settings

TASK: 1.10 Install and configure apps SUBTASKS:

1.10.1. Install apps

1.10.2. Manage authorized services

1.10.3. Backup and restore applications

1.10.4. Configure out-of-the-box installed Apps

REFERENCES:

Apps overview https://www.ibm.com/docs/en/qsip/7.5?topic=overview-apps

IBM Security App Exchange https://exchange.xforce.ibmcloud.com/hub

Backup and restore applications https://www.ibm.com/docs/en/qsip/7.5?topic=recovery-backup-restore-applications
Configuring the QRadar Assistant app
https://www.ibm.com/docs/en/qradar-common?topic=app-configuring-qradar-assistant

QRadar apps overview https://www.ibm.com/docs/en/qsip/7.5?topic=apps-gradar-overview

 $\begin{tabular}{lll} Managing authorized services & $$\underline{$https://www.ibm.com/docs/en/qsip/7.5?topic=administration-managing-authorized-services}$ \\ \end{tabular}$

Section 2: Performance Optimization

This section accounts for 13% of the exam (8 out of 62 questions).

TASK: 2.1 Construct identity exclusions SUBTASKS:

- **2.1.1.** Display understanding of identity exclusions
 - Identity exclusion searches
 - Differences between identity exclusions searches and blocklists

2.1.2. Create identity exclusion searches

REFERENCES:

Identity exclusion search deviations Identity exclusion searches

https://www.ibm.com/docs/en/qsip/7.5?topic=deviations-identity-exclusion-searches https://www.ibm.com/docs/en/qsip/7.5?topic=searches-creating-identity-exclusion

TASK: 2.2 Deal with resource restrictions SUBTASKS:

2.2.1. Document the function of resource restrictions in distributed and non-distributed environments

- Access wise
- Resource limitation wise
- Canceled searches
- Empty search results
- Inconsistent search results
- Limited search results

2.2.2. Configure resource restrictions

- Set resource restrictions to apply time or data limitations to event and flow searches
- Execution time, time span, record limit

2.2.3. Explain different types of resource restrictions

- User-based
- Role-based
- Tenant-based

REFERENCES:

Types of resource restrictions Configuring resource restrictions Restrictions to prevent resource-intensive searches https://www.ibm.com/docs/en/qsip/7.5?topic=searches-types-resource-restrictions https://www.ibm.com/docs/en/qsip/7.5?topic=searches-configuring-resource-restrictions

https://www.ibm.com/docs/en/qsip/7.5?topic=tasks-restrictions-prevent-resource-intensive-searches

TASK: 2.3 Rule configuration and tuning SUBTASKS:

- **2.3.1.** Explain different types of correlation rules
 - Event rules
 - Flow rules
 - Common rules
 - Offense rules
- 2.3.2. Create different types of correlation rules
 - Rule creation wizard
 - Test groups
 - Response parameters
- 2.3.3. Tune rules
 - Tuning wizard
 - Basic rule tests familiarity
- **2.3.4.** Identify expensive rules with QRadar support tools

REFERENCES:

QRadar tuning
Creating a custom rule
IBM QRadar building blocks
Creating an OR condition within the CRE
Guidelines for tuning system performance
Troubleshooting Custom Rule
performance with
findExpensiveCustomRules.sh
Custom rules

https://www.ibm.com/docs/en/qsip/7.5?topic=deployment-qradar-tuning
https://www.ibm.com/docs/en/qsip/7.5?topic=rules-creating-custom-rule
https://www.ibm.com/docs/en/qsip/7.5?topic=phase-qradar-building-blocks
https://www.ibm.com/docs/en/qsip/7.5?topic=phase-creating-condition-within-cre
https://www.ibm.com/docs/en/qsip/7.5?topic=phase-guidelines-tuning-system-performance
https://www.ibm.com/support/pages/qradar-troubleshooting-custom-rule-performance-findexpensivecustomrulessh

https://www.ibm.com/docs/en/qsip/7.5?topic=rules-custom

TASK: 2.4 Index management SUBTASKS:

- 2.4.1. Enable indexes
- **2.4.2.** Enable payload indexing
- 2.4.3. Describe the use of index management
 - What is an index
 - Reading the index management interface
- **2.4.4.** Configure retention period for payload indexes

REFERENCES:

https://www.ibm.com/docs/en/qsip/7.5?topic=management-enabling-indexes **Enabling indexes** https://www.ibm.com/docs/en/qsip/7.5?topic=tasks-index-management Index management

Configuring the retention period for https://www.ibm.com/docs/en/qsip/7.5?topic=management-configuring-retention-period-payloadpayload indexes

Enabling payload indexing to optimize

search times

https://www.ibm.com/docs/en/qsip/7.5?topic=management-enabling-payload-indexing-optimizesearch-times

TASK: 2.5 Search management **SUBTASKS**:

2.5.1. Manage saved searches

2.5.2. Manage search results

 Explain different types of parameters (new search, save results, cancel, delete, notify, view)

REFERENCES:

Scheduled search https://www.ibm.com/docs/en/qsip/7.5?topic=searches-scheduled-search Advanced search options https://www.ibm.com/docs/en/qsip/7.5?topic=searches-advanced-search-options Saving search criteria https://www.ibm.com/docs/en/qsip/7.5?topic=searches-saving-search-criteria Quick filter search options https://www.ibm.com/docs/en/qsip/7.5?topic=searches-quick-filter-search-options Finding IOCs quickly with lazy https://www.ibm.com/docs/en/qsip/7.5?topic=searches-finding-iocs-quickly-lazy-search search

Using a subsearch to refine https://www.ibm.com/docs/en/qsip/7.5?topic=searches-using-subsearch-refine-search-results

search results Adding filters to improve search

https://www.ibm.com/docs/en/qsip/7.5?topic=phase-adding-filters-improve-search-performance performance

Searching for offenses that are https://www.ibm.com/docs/en/qsip/7.5?topic=searches-searching-offenses-that-are-indexed-custom-property indexed on a custom property

Manage search results https://www.ibm.com/docs/en/qsip/7.4?topic=SS42VS 7.4/com.ibm.qradar.doc/t qrm ug man srch rslts.html

TASK: 2.6 Manage routing rules and event forwarding **SUBTASKS:**

2.6.1. Explain routing rules configuration and usage

- Different routing options for rules
- Create a routing rule

REFERENCES:

https://www.ibm.com/docs/en/qsip/7.5?topic=data-routing-options-rules Routing options for rules https://www.ibm.com/docs/en/qsip/7.5?topic=systems-configuring-routing-rules-forward-data Configuring routing rules to forward data

Section 3: Data Source Configuration

This section accounts for 14% of the exam (9 out of 62 questions).

TASK: 3.1 Manage flow sources SUBTASKS:

- 3.1.1. Understand flow sources
 - What are flow sources
 - What are the types
 - External versus internal
- 3.1.2. Add or edit a flow source
- **3.1.3.** Enable, disable, and delete a flow source
- 3.1.4. Understand Flow source alias
 - Add
 - Delete

REFERENCES:

Types of flow sources https://www.ibm.com/docs/en/qradar-on-cloud?topic=sources-types-flow
Adding a flow source https://www.ibm.com/docs/en/qsip/7.5?topic=sources-adding-flow-source

Adding or editing a flow source https://www.ibm.com/docs/en/qradar-on-cloud?topic=sources-adding-editing-flow-source

Flow sources

https://www.ibm.com/docs/en/qsip/7.5?topic=configuration-flow-sources

Flow source aliases

https://www.ibm.com/docs/en/qsip/7.5?topic=sources-flow-source-aliases

Enabling flow sources

https://www.ibm.com/docs/en/qsip/7.5?topic=sources-enabling-flow

Deleting a Flow Source

https://www.ibm.com/docs/en/qsip/7.5?topic=sources-deleting-flow-source

TASK: 3.2 Manage log sources SUBTASKS:

- 3.2.1. Add log sources
- 3.2.2. Filter log sources
- **3.2.3.** Test log sources
- 3.2.4. Bulk add/edit log sources
- 3.2.5. Disconnected log collector (DLC)
 - Understanding
 - Collecting events

REFERENCES:

Gateway log source DSM Editor overview

https://www.ibm.com/docs/en/dsm?topic=management-gateway-log-source https://www.ibm.com/docs/en/gradar-on-cloud?topic=gradar-dsm-editor-overview Protocol configuration options

Adding a log source to receive events

QRadar: How does coalescing work in

QRadar?

Communication between WinCollect

agents and QRadar Testing log sources Filtering log sources

QRadar Log Source Management App 7.0 Managing Disconnected Log Collectors with the QRadar Log Source Management ann

https://www.ibm.com/docs/en/dsm?topic=configuration-protocol-options

https://www.ibm.com/docs/en/gradar-common?topic=app-adding-log-source-receive-events

https://www.ibm.com/support/pages/gradar-how-does-coalescing-work-gradar

https://www.ibm.com/docs/en/qradar-common?topic=wincollect-communication-between-agents-

gradar

https://www.ibm.com/docs/en/qradar-common?topic=app-testing-log-sources

https://www.ibm.com/docs/en/gradar-common?topic=app-filtering-log-sources

https://www.securitylearningacademy.com/course/view.php?id=5744

https://www.securitylearningacademy.com/course/view.php?id=5016

TASK: 3.3 Export event and flow data SUBTASKS:

3.3.1. Export events from QRadar

3.3.2. Export flow data

REFERENCES:

Exporting events
Viewing normalized events
Introduction to QRadar events
Insufficient disk space to export data
Exporting flows

https://www.ibm.com/docs/en/qsip/7.5?topic=investigation-exporting-events

https://www.ibm.com/docs/en/qsip/7.5?topic=monitoring-viewing-normalized-events

https://www.securitylearningacademy.com/course/view.php?id=6585

 $\underline{https://www.ibm.com/docs/en/qsip/7.5?topic=appliances-insufficient-disk-space-export-data}$

https://www.ibm.com/docs/en/qsip/7.5?topic=data-exporting-flows

TASK: 3.4 Vulnerability information source configuration SUBTASKS:

- 3.4.1. Understand QRadar vulnerability manager deployments
- 3.4.2. Add scanners to QVM deployment
- 3.4.3. Understand QVM
- **3.4.4.** Configure vulnerability scans
- 3.4.5. Add third-party scanners to QRadar
- 3.4.6. Install the Java Cryptography Extension on QRadar
- 3.4.7. Integrate unsupported third-party vulnerability scanners using the AXIS format

REFERENCES:

Scan policies
Risk score details
Installations and deployments

Common Vulnerability Scoring System (CVSS)

https://www.ibm.com/docs/en/qsip/7.5?topic=configuration-scan-policies https://www.ibm.com/docs/en/qsip/7.5?topic=scores-risk-score-details

https://www.ibm.com/docs/en/qsip/7.5?topic=manager-installations-deployments

 $\underline{https://www.ibm.com/docs/en/qsip/7.5?topic=vulnerabilities-common-vulnerability-scoring-system-properties of the properties of the pro$

CVSS

Deploying a dedicated QRadar Vulnerability Manager processor

appliance

Options for adding scanners to your QRadar Vulnerability Manager

deployment

Scan configuration

Supported vulnerability scanners Overview of QRadar Vulnerability

Manager

QRadar Vulnerability Manager

deployments

https://www.ibm.com/docs/en/qsip/7.5?topic=deployment-deploying-dedicated-gradar-vulnerability-

manager-processor-appliance

 $\underline{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=id-options-adding-scanners-your-qradar-vulnerability-properties}. }$

manager-deployment

https://www.ibm.com/docs/en/qsip/7.5?topic=manager-scan-configuration

https://www.ibm.com/docs/en/SS42VS_DSM/pdf/b_vuln.pdf

https://www.ibm.com/docs/en/qsip/7.5?topic=manager-overview-gradar-vulnerability

https://www.ibm.com/docs/en/qsip/7.5?topic=overview-qradar-vulnerability-manager-deployments

TASK: 3.5 Manage custom event and flow properties SUBTASKS:

- 3.5.1. Understand custom event and flow properties
- **3.5.2.** Create a custom property
- 3.5.3. Modify or delete a custom property
- **3.5.4.** Define custom properties using expressions

REFERENCES:

Custom event and flow properties Defining custom properties by using custom property expressions

Creating a custom property

Modifying or deleting a custom property

https://www.ibm.com/docs/en/qsip/7.5?topic=siem-custom-event-flow-properties

https://www.ibm.com/docs/en/gsip/7.5?topic=cefp-defining-custom-properties-by-using-custom-

property-expressions

https://www.ibm.com/docs/en/qsip/7.5?topic=properties-creating-custom-property

https://www.ibm.com/docs/en/qsip/7.5?topic=properties-modifying-deleting-custom-property

TASK: 3.6 Manage custom log source types SUBTASKS:

- **3.6.1.** Understand custom log source types
- **3.6.2.** Create a custom log source type

REFERENCES:

Custom log source types Identity properties for event mappings Referencing capture strings by using format string fields

Creating a custom log source type to parse events

 $\underline{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=qradar-custom-log-source-types}}$

https://www.ibm.com/docs/en/qsip/7.5?topic=mapping-identity-properties-event-mappings

https://www.ibm.com/docs/en/gradar-on-cloud?topic=pcide-referencing-capture-strings-by-using-

format-string-fields

https://www.ibm.com/docs/en/qsip/7.5?topic=types-creating-custom-log-source-type-parse-events

TASK: 3.7 Manage data obfuscation SUBTASKS:

- 3.7.1. Understand data obfuscation
 - profiles
 - expressions
- **3.7.2.** Create a data obfuscation profile

3.7.3. Create a data obfuscation expression

3.7.4. View deobfuscated data

3.7.5. Edit or disable obfuscation expressions created in previous releases

REFERENCES:

Data obfuscation expressions
De-obfuscating data so that it can be viewed in the console
Editing or disabling obfuscation expressions created in previous releases
Sensitive data protection
Creating a data obfuscation profile
Creating data obfuscation expressions

 $\frac{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=protection-data-obfuscation-expressions}}{\text{https://www.ibm.com/docs/en/qsip/7.5?topic=soun-deobfuscating-data-so-that-it-can-be-viewed-inconsole}}$

 $\frac{https://www.ibm.com/docs/en/qsip/7.5?topic=soun-editing-disabling-obfuscation-expressions-created-in-previous-releases}{}$

https://www.ibm.com/docs/en/qsip/7.5?topic=administration-sensitive-data-protection https://www.ibm.com/docs/en/qsip/7.5?topic=names-creating-data-obfuscation-profile https://www.ibm.com/docs/en/qsip/7.5?topic=names-creating-data-obfuscation-expressions

Section 4: Accuracy Tuning

This section accounts for 10% of the exam (6 out of 62 questions).

TASK: 4.1 Understand and implement ADE rules SUBTASKS:

- **4.1.1.** Understand anomaly rules
- 4.1.2. Understand threshold rules
- **4.1.3.** Understand behavior rules
- **4.1.4.** Create an anomaly detection rule

REFERENCES:

Anomaly detection rules https://www.ibm.com/docs/en/qsip/7.5?topic=rules-anomaly-detection
Creating an anomaly detection rule

https://www.ibm.com/docs/en/qsip/7.5?topic=rules-creating-anomaly-detection-rule

TASK: 4.2 Manage and use building blocks SUBTASKS:

- 4.2.1. Tune building blocks
- 4.2.2. Review the building blocks in the use case manager
- 4.2.3. Add servers to building blocks

REFERENCES:

Tuning building blocks https://www.ibm.com/docs/en/qsip/7.5?topic=blocks-tuning-building
QRadar Use Case Manager app
https://www.ibm.com/docs/en/qsip/7.5?topic=tuning-servers-building-blocks
https://www.ibm.com/docs/en/qsip/7.5?topic=tuning-servers-building-blocks

TASK: 4.3 Manage content packs SUBTASKS:

- **4.3.1.** Understand the types of security content
- 4.3.2. Install extensions using extensions management
- **4.3.3.** Synchronize dashboard templates from content extensions
- **4.3.4.** Uninstall a content extension
- **4.3.5.** Install Threat Monitoring extension

REFERENCES:

QRadar Assistant app https://www.ibm.com/docs/en/gradar-common?topic=apps-gradar-assistant-app

https://www.ibm.com/docs/en/qsip/7.5?topic=content-types-security Types of security content

content-extensions

https://www.ibm.com/docs/en/qsip/7.5?topic=content-installing-extensions-by-using-extensions-Installing extensions by using Extensions

Management management IBM QRadar Security Threat Monitoring

https://www.ibm.com/docs/en/qsip/7.5?topic=integration-gradar-security-threat-monitoring-content-**Content Extension** extension

https://www.ibm.com/docs/en/qradar-common?topic=app-synchronizing-dashboard-templates-from-

Synchronizing dashboard templates from

content extensions

https://www.ibm.com/docs/en/qsip/7.5?topic=content-uninstalling-extension Uninstalling a content extension

TASK: 4.4 Distinguish native information sources **SUBTASKS**:

- 4.4.1. Manage remote networks and remote services
- **4.4.2.** Install and manage the QRadar Threat Intelligence app
- **4.4.3.** Configure a threat feed to populate a reference set
- **4.4.4.** Review network hierarchy
- 4.4.5. Understand building blocks role

REFERENCES:

Threat intelligence feeds QRadar Threat Intelligence app Reviewing your network hierarchy Remote networks and services configuration

https://www.ibm.com/docs/en/gradar-common?topic=app-threat-intelligence-feeds https://www.ibm.com/docs/en/qradar-common?topic=apps-qradar-threat-intelligence-app https://www.ibm.com/docs/en/qradar-common?topic=tuning-reviewing-your-network-hierarchy

https://www.ibm.com/docs/en/qsip/7.5?topic=administration-remote-networks-services-configuration

TASK: 4.5 Configure integrations **SUBTASKS**:

- 4.5.1. Configure MaxMind
- 4.5.2. Manage X-Force integration
- 4.5.3. Install and configure IBM X-Force Exchange plug-in for QRadar
- 4.5.4. Enable the X-Force Threat Intelligence feed

REFERENCES:

IBM X-Force integration https://www.ibm.com/docs/en/qsip/7.5?topic=administration-x-force-integration

Enabling the X-Force Threat Intelligence https://www.ibm.com/docs/en/qsip/7.5?topic=feed-enabling-x-force-threat-intelligence

Enabling the X-Force Threat Intelligence https://www.ibm.com/docs/en/qsip/7.5?topic=feed-enabling-x-force-threat-

intelligence#t_gradar_ag_xforce_enable

QRadar: Configuring a MaxMind account https://www.ibm.com/support/pages/node/1172842 for geographic data updates

https://www.ibm.com/docs/en/qsip/7.5?topic=integration-x-force-exchange-plug-in-gradar IBM X-Force Exchange plug-in for QRadar

Section 5: User Management

This section accounts for 6% of the exam (4 out of 62 questions).

TASK: 5.1 Manage users SUBTASKS:

- **5.1.1.** Understand how to create a user account
 - Understand different parameters:
 - o User role
 - Security profile
 - Override system inactivity timeout
- **5.1.2.** Validate user account creation requirements
 - Deploy after user creation
- **5.1.3.** Understand how to edit a user account
 - User Management window
 - Use of the Advanced Filter to search by user role or security profile when editing
- **5.1.4.** Validate user account edition requirements
 - Deploy after user edit
- 5.1.5. Disable a user account
- 5.1.6. Delete a user account
- **5.1.7.** Delete saved searches of a deleted user

REFERENCES:

Configuring inactivity timeout for a user Deleting saved searches of a deleted user Editing a user account

Creating a user account Deleting a user account

Disabling a user account

https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-configuring-inactivity-timeout-user https://www.ibm.com/docs/en/qsip/7.5?topic=accounts-deleting-saved-searches-deleted-user

https://www.ibm.com/docs/en/qsip/7.5?topic=accounts-editing-user-account

https://www.ibm.com/docs/en/qsip/7.5?topic=accounts-creating-user-account https://www.ibm.com/docs/en/qsip/7.5?topic=accounts-deleting-user-account

https://www.ibm.com/docs/en/qsip/7.5?topic=accounts-deleting-user-account

TASK: 5.2 Create and update security profiles SUBTASKS:

- 5.2.1. Understand security profiles
 - Domains
 - Permission precedence
- **5.2.2.** Create a security profile

- **5.2.3.** Edit a security profile
- **5.2.4.** Duplicate a security profile
- **5.2.5.** Delete a security profile

REFERENCES:

Security profiles

Permission precedence

Creating a security profile

Deleting a security profile

Editing a security profile

Duplicating a security profile

https://www.ibm.com/docs/en/qsip/7.5?topic=profiles-permission-precedence

https://www.ibm.com/docs/en/qsip/7.5?topic=profiles-creating-security-profile

https://www.ibm.com/docs/en/qsip/7.5?topic=profiles-deleting-security-profile

https://www.ibm.com/docs/en/qsip/7.5?topic=profiles-editing-security-profile

https://www.ibm.com/docs/en/qsip/7.5?topic=profiles-duplicating-security-profile

https://www.ibm.com/docs/en/qsip/7.5?topic=profiles-duplicating-security-profile

TASK: 5.3 Create and update user roles SUBTASKS:

- **5.3.1.** Understand user roles
 - QRadar functions that the user can access
- **5.3.2.** Create a user role
- **5.3.3.** Edit a user role
- 5.3.4. Delete a user role

REFERENCES:

User roles

https://www.ibm.com/docs/en/qsip/7.5?topic=management-user-roles
Creating a user role

https://www.ibm.com/docs/en/qsip/7.5?topic=roles-creating-user-role
Editing a user role

https://www.ibm.com/docs/en/qsip/7.5?topic=roles-editing-user-role
Deleting a user role

https://www.ibm.com/docs/en/qsip/7.5?topic=roles-deleting-user-role

TASK: 5.4 Manage user authentication and authorization SUBTASKS:

- **5.4.1.** User authentication
- **5.4.2.** System authentication
- 5.4.3. RADIUS authentication
- 5.4.4. TACACS authentication
- **5.4.5.** LDAP
- **5.4.6.** SAML single sign-on authentication

REFERENCES:

User authentication
Configuring LDAP authentication
SAML single sign-on authentication
LDAP authentication
Configuring RADIUS authentication
Configuring system authentication
Configuring TACACS authentication

https://www.ibm.com/docs/en/qsip/7.5?topic=management-user-authentication https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-configuring-ldap https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-saml-single-sign https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-ldap https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-configuring-radius https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-configuring-system https://www.ibm.com/docs/en/qsip/7.5?topic=authentication-configuring-tacacs

Section 6: Reporting, Searching, and Offense Management

This section accounts for 13% of the exam (8 out of 62 questions).

TASK: 6.1 Manage reports SUBTASKS:

- **6.1.1.** Create reports with different chart types
 - Chart types data types
- **6.1.2.** Create custom reports
 - Selecting frequency of report generation
 - Options for different distribution channels
- 6.1.3. Explain difference between scheduled reports and reports run on raw data

REFERENCES:

Chart types

Report tab toolbar

Creating custom reports

Deleting generated content

Manually generating a report

https://www.ibm.com/docs/en/qsip/7.5?topic=management-report-tab-toolbar

https://www.ibm.com/docs/en/qsip/7.5?topic=management-creating-custom-reports

https://www.ibm.com/docs/en/qsip/7.5?topic=management-deleting-generated-content

https://www.ibm.com/docs/en/qsip/7.5?topic=management-manually-generating-report

TASK: 6.2 Utilize different search types SUBTASKS:

- **6.2.1.** Save search criteria for further use
- 6.2.2. Use AQL for searches
- **6.2.3.** When to use quick search
- **6.2.4.** Query with dynamic search

REFERENCES:

Querying with dynamic search Converting a saved search to an AQL string AQL search string examples https://www.ibm.com/docs/en/qsip/7.5?topic=searches-querying-dynamic-search https://www.ibm.com/docs/en/qsip/7.5?topic=options-converting-saved-search-aql-string https://www.ibm.com/docs/en/qsip/7.5?topic=options-aql-search-string-examples

TASK: 6.3 Manage offenses SUBTASKS:

- **6.3.1.** Understand how offense renaming works
 - Hot and Cold rules
- 6.3.2. Demonstrate how offense indexing works

- **6.3.3.** Demonstrate how offense indexing is related to offense chaining
- 6.3.4. Set offense prioritization with rule action options
- 6.3.5. Implement Soft Clean SIM data clean
- **6.3.6.** Understand how and why to protect offenses

REFERENCES:

Offense chaining
Offense indexing
Offense indexing
Protecting offenses
Offense prioritization
Cleaning the SIM data model

https://www.ibm.com/docs/en/qsip/7.5?topic=management-offense-indexing
https://www.ibm.com/docs/en/qsip/7.5?topic=retention-protecting-offenses
https://www.ibm.com/docs/en/qsip/7.5?topic=management-offense-prioritization
https://www.ibm.com/docs/en/qsip/7.5?topic=management-offense-prioritization

https://community.ibm.com/community/user/security/blogs/ashish-kothekar/2021/07/07/how-

How QRadar Offense Renaming works <u>gradar-offense-renaming-works</u>

TASK: 6.4 Sharing content among users SUBTASKS:

- **6.4.1.** Share reports with other users
 - Understand the available sharing options
- **6.4.2.** Sharing dashboard items with other users
 - Requirement to share a dashboard
 - Available Parameters
- **6.4.3.** How to share a search criteria

REFERENCES:

Sharing report groups https://www.ibm.com/docs/en/qsip/7.5?topic=groups-sharing-report
QRadar: Sharing Dashboard Items https://www.ibm.com/support/pages/qradar-sharing-dashboard-items

Section 7: Tenants and Domains

This section accounts for 8% of the exam (5 out of 62 questions).

TASK: 7.1 Differentiate network hierarchy and domain definition SUBTASKS:

- **7.1.1.** Assign parts of the network hierarchy to specific domains
- **7.1.2.** Show that an event is assigned to a domain
 - A single log source may provide events to multiple domains
- **7.1.3.** Understand constraints for defining the network hierarchy

REFERENCES:

Domain segmentation Guidelines for defining your network hierarchy Domains and log sources in multitenant environments Domain segmentation

Network hierarchy updates in a multitenant deployment QRadar Multi-tenancy, Domains and Log Source Groups - Jose Bravo video https://www.ibm.com/docs/en/qsip/7.5?topic=sources-domain-segmentation

https://www.ibm.com/docs/en/qsip/7.5?topic=hierarchy-guidelines-defining-your-network

https://www.ibm.com/docs/en/qsip/7.5?topic=management-domains-log-sources

https://www.ibm.com/docs/en/qsip/7.5?topic=administration-domain-segmentation https://www.ibm.com/docs/en/qsip/7.5?topic=management-network-hierarchy-updates-in-multitenant-deployment

https://www.youtube.com/watch?v=Xrn7q9v3vAk

TASK: 7.2 Manage domains and tenants SUBTASKS:

- **7.2.1.** Understand domains and log sources in multi-tenant environments
 - Domain segmentation
 - Automatic log source detection
- 7.2.2. Create domains
- 7.2.3. Configure Apps in a multi-tenant environment
- **7.2.4.** Manage retention policies in a multi-tenant environment

REFERENCES:

Creating domains
Provisioning a new tenant
Domain definition and tagging
Retention policies for tenants
Using Domain Management window to
create domains

Installing apps in a multi-tenant environment

Domains and log sources in multitenant environments

https://www.ibm.com/docs/en/qradar-on-cloud?topic=segmentation-creating-domains https://www.ibm.com/docs/en/qradar-on-cloud?topic=management-provisioning-new-tenant https://www.ibm.com/docs/en/qradar-on-cloud?topic=segmentation-domain-definition-tagging https://www.ibm.com/docs/en/qsip/7.5?topic=management-retention-policies-tenants

https://www.ibm.com/docs/en/qsip/7.5?topic=segmentation-creating-domains

https://www.ibm.com/docs/en/gradar-common?topic=apps-gradar-overview

https://www.ibm.com/docs/en/qsip/7.5?topic=management-domains-log-sources

TASK: 7.3 Allocate licenses for multi-tenant **SUBTASKS**:

- 7.3.1. Monitor license usage in multi-tenant deployments
 - How to view EPS rates per log source
 - How to view EPS rates per domain
 - How to view the EPS rate for an individual log source
 - How to view the EPS rate for an individual domain
 - Show that there is no spillover handling for per-tenant EPS limits

REFERENCES:

New features in QRadar 7.2.6

https://www.ibm.com/support/pages/gradar-open-mic-11-new-features-gradar-726-

Monitoring license usage in multitenant

15-dec-2015-replay-available

deployments

https://www.ibm.com/docs/en/qsip/7.5?topic=management-monitoring-license-usage

Open Mic: Page 22

https://ibm.biz/BdPqC9

TASK: 7.4 Assign users to tenants **SUBTASKS**:

- **7.4.1.** Understand user roles in a multi-tenant environment
 - Service provider
 - Tenants

7.4.2. Partition data by use of security profiles

REFERENCES:

https://www.ibm.com/docs/en/qsip/7.5?topic=management-user-roles User roles in a multitenant environment

Security profiles https://www.ibm.com/docs/en/qsip/7.5?topic=management-security-profiles

Section 8: Troubleshooting

This section accounts for 16% of the exam (10 out of 62 questions).

TASK: 8.1 Review and respond to system notifications SUBTASKS:

- **8.1.1.** Create system notifications
 - System Notification Rule (or any rule with 'Notification' Response)
- **8.1.2.** Locate system notifications
 - Under the bell icon on GUI
 - Custom Rule is System: Notification events in Log Activity

8.1.3. React to system notifications

REFERENCES:

License expired

Accumulator is falling behind

Maximum active offenses reached

Disk usage system notifications

Backup unable to complete a request

How to deal with unwanted notifications

QRadar system notifications

https://www.ibm.com/docs/en/qsip/7.5?topic=appliances-maximum-active-offenses-reached

https://www.ibm.com/docs/en/qsip/7.5?topic=appliances-maximum-active-offenses-reached

https://www.ibm.com/docs/en/qsip/7.5?topic=appliances-maximum-active-offenses-reached

https://www.ibm.com/docs/en/qsip/7.5?topic=appliances-backup-unable-complete-request

https://www.ibm.com/docs/en/qsip/7.5?topic=appliances-backup-unable-complete-request

https://www.ibm.com/support/pages/qradar-how-deal-unwanted-notifications

https://www.ibm.com/docs/en/qsip/7.5?topic=support-qradar-system-notifications

TASK: 8.2 Troubleshoot common documented issues SUBTASKS:

8.2.1. Scenarios from the "Technical Notes 101" page

REFERENCES:

Technical Notes 101 Cleaning the SIM data model QRadar Troubleshooting and System Notifications Guide

What information should be submitted with a QRadar service request?

https://www.ibm.com/community/qradar/home/knowledge

https://www.ibm.com/docs/en/qsip/7.5?topic=phase-cleaning-sim-data-model

https://www.ibm.com/docs/en/SS42VS 7.5/pdf/b gradar system notifications.pdf

 $\frac{\text{https://www.ibm.com/support/pages/getting-help-what-information-should-be-submitted-qradar-service-request}$

TASK: 8.3 Configure, manage and troubleshoot applications SUBTASKS:

- **8.3.1.** Use "recon" to troubleshoot apps
- 8.3.2. Configure Use Case Manager
- 8.3.3. Configure QDI

REFERENCES:

QRadar Deployment Intelligence app

Installing QRadar Deployment Intelligence

How to use Recon to troubleshoot QRadar

applications

Configuring QRadar Use Case Manager

https://www.ibm.com/docs/en/qradar-common?topic=apps-gradar-deployment-intelligence-app

https://www.ibm.com/docs/en/qradar-common?topic=app-installing-gradar-deployment-intelligence

https://www.ibm.com/support/pages/qradar-how-use-recon-troubleshoot-gradar-applications

https://www.ibm.com/docs/en/gradar-common?topic=icc-creating-authorized-service-

token#c Qapps LDAP authTokens

TASK: 8.4 Perform healthchecks SUBTASKS:

8.4.1. Perform Daily Tasks

8.4.2. Perform Weekly Tasks

REFERENCES:

Maintaining QRadar 101 https://www.ibm.com/support/pages/system/files/inline-

files/\$FILE/OpenMic MaintainingQRadar101 updated2.pdf

Maintaining QRadar 101 - Open Mic https://www.securitylearningacademy.com/enrol/index.php?id=4159

Perform healthchecks using ThreadTop https://www.ibm.com/support/pages/gradar-using-threadtop-determine-gradar-process-load

Perform healthchecks defect inspector
Perform healthchecks Wincollect Agent
Perform healthchecks Wincollect Agent
Perform healthchecks Wincollect Agent

https://www.ibm.com/support/pages/wincollect-agent-error-message-configuration-file-fingerprints-

dont-match

Perform healthchecks Test Tomcat

connection

Perform healthchecks Collecting system

information

https://www.ibm.com/support/pages/node/6590417

https://www.ibm.com/support/pages/qradar-collecting-system-information-using-optqradarbinmyver-

V

TASK: 8.5 Basic GUI REST-API usage SUBTASKS:

8.5.1. Use the REST-API via the GUI on the console

Pick an endpoint and show how to access it

REFERENCES:

API error messages https://www.ibm.com/docs/en/qradar-common?topic=versions-api-error-messages
Accessing the interactive API <a href="https://www.ibm.com/docs/en/qradar-common?topic=versions-accessing-interactive-api-topic=versions-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-interactive-accessing-accessi

documentation page <u>documentation-page</u>

QRadar API 101 - Jose Bravo video https://www.youtube.com/watch?v=swGl5QWB29g