

CLOUD SECURITY CERTIFICATIONS



Which one you should go for

CLOUD SECURITY CERTIFICATIONS



Which one you should go for

Sanjeev (Jassi)

CLOUD SECURITY CERTIFICATIONS



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CLOUD SECURITY CERTIFICATIONS



Which one you should go for

Sanjeev (Jassi)

Cloud Security is gonna stay

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- Cybersecurity -> evergreen and high in demand

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- Cloud Security is one of them

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- Difficult to manage the changing environments

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- Difficult to manage the changing environments
- Have patience and learn

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- Difficult to manage the changing environments
- Have patience and learn
- Understand Cloud Security concepts

Cloud Security is gonna stay

- Cybersecurity -> evergreen and high in demand
- Cloud Security is one of them
- Difficult to manage the changing environments
- Have patience and learn
- Understand Cloud Security concepts
- Certification can be one of those ways

Why You should go for Certification(s) at first place

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Mostly JDs have it

Why You should go for Certification(s) at first place

Mostly JDs have it

Overall Understanding of that subject

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CV gets screened through HR

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Learning gets better

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Higher Salary

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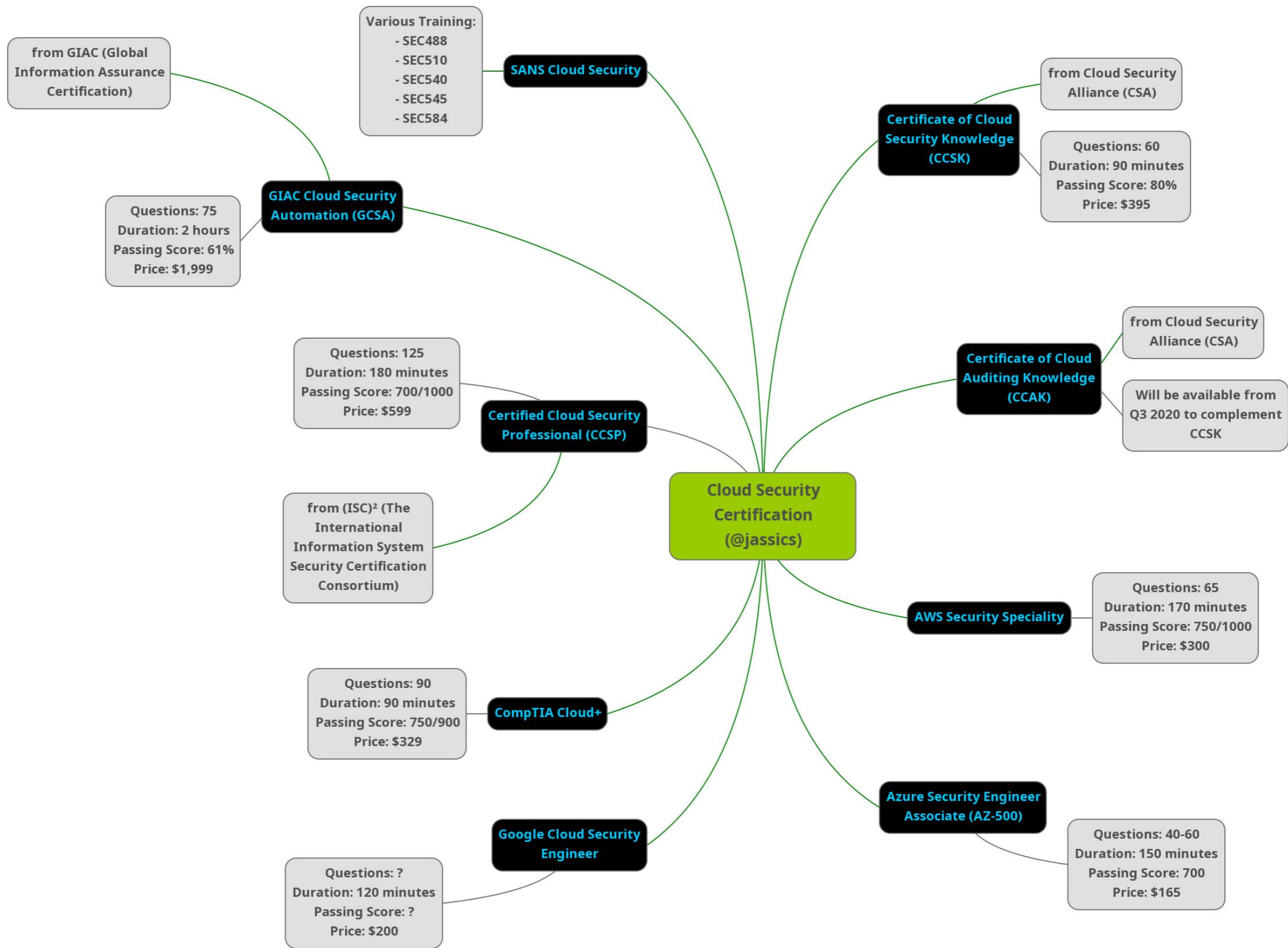
Learning gets better

Higher Salary

Possibly helpful in Appraisal or Promotion

Cloud Security Certifications & which one is for you

Cloud Security Certifications & which one is for you



CompTIA Cloud+

CompTIA Cloud+



CompTIA Cloud+



What's on CompTIA Cloud+?

Here are a few highlights of the topics covered by this cloud computing certification:

- **Cloud Deployment:** CompTIA Cloud+ covers the implementation, maintenance and delivery of multiple cloud deployment models, emphasizing in-demand technical skills.
- **Cloud Security:** Securing the enterprise is no longer the specific domain of cybersecurity experts in a world where the weakest link is often exploited. CompTIA Cloud+ focuses on these important aspects of cybersecurity:
 - Updated encryption standards, certificate and key management, and tunneling protocols
 - Access control technologies based on given cloud computing models
 - Automating the continuous improvement of organizational cybersecurity posture
- **Cloud Management and Migration:** Understanding how a cloud-migration works is as important as being able to implement one. The CompTIA Cloud+ certification covers the knowledge, skills, and abilities to conceptualize, implement, and troubleshoot moving to the cloud.

CompTIA Cloud+



What's on CompTIA Cloud+?

Here are a few highlights of the topics covered by this cloud computing certification:

Number of Questions	Maximum of 90 questions	Maximum of 110 questions
Type of Questions	Performance-based and multiple-choice questions.	Performance-based and multiple-choice questions.
Length of Test	90 Minutes	165 minutes
Passing Score	750 (on a scale of 100-900)	TBD
Recommended Experience	2-3 years in system administration	2-3 years in system administration
Languages	English, Japanese	English
Retirement	Usually three years after launch	On or before October 6, 2020
Testing Provider	Pearson VUE <ul style="list-style-type: none"> • Testing Centers • Online Testing 	Pearson VUE <ul style="list-style-type: none"> • Testing Centers • Online Testing
Price	\$329 USD (See all pricing)	\$50 USD

CCSK

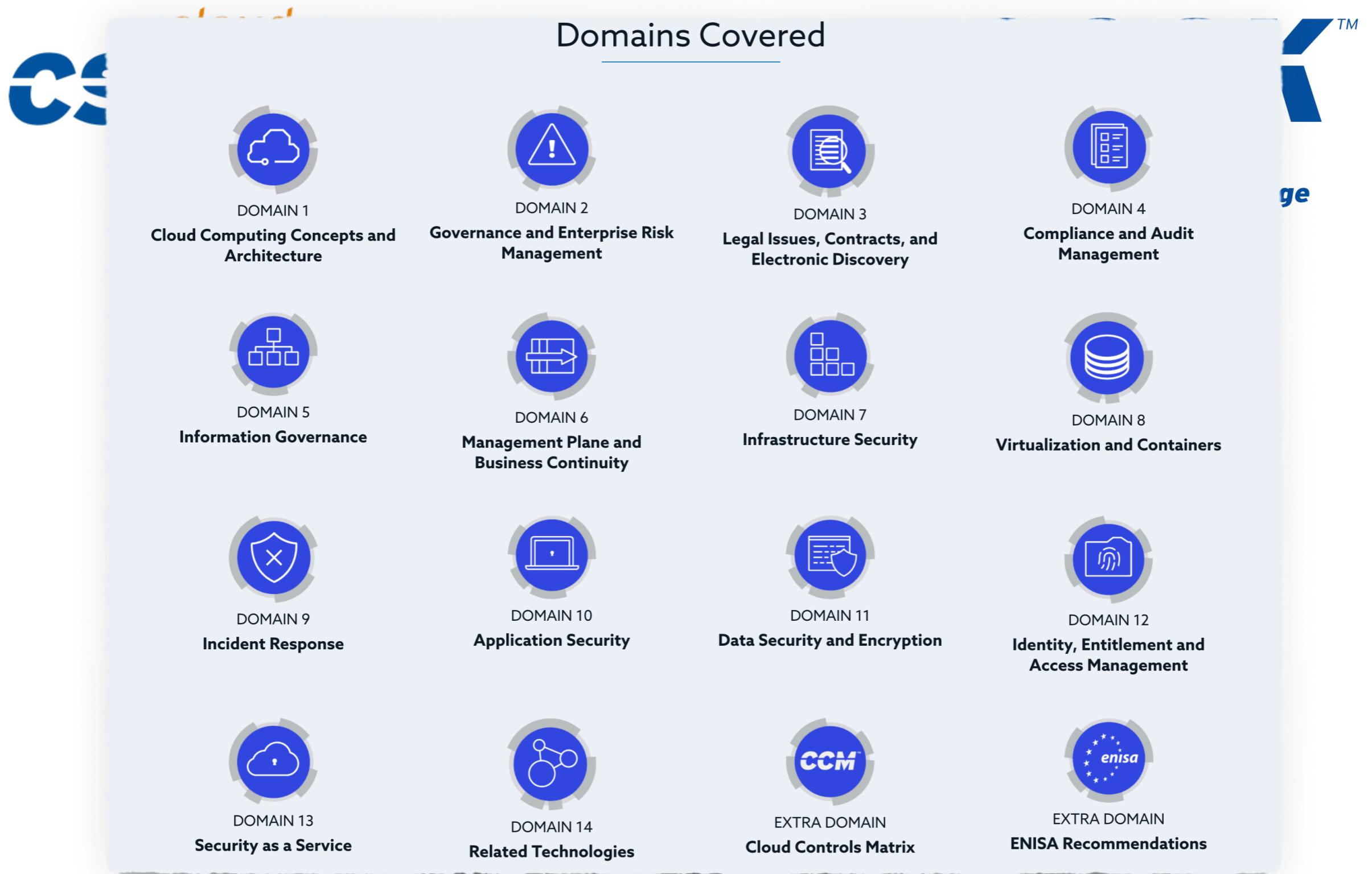
CCSK



CCSK



CCSK



CCSK



Domains Covered



DOMAIN 1

Cloud Computing Concepts and Architecture



DOMAIN 2

Governance and Enterprise Risk Management



DOMAIN 3

Legal Issues, Contracts, and Electronic Discovery



DOMAIN 4

Compliance and Audit Management



DOMAIN 5

Information Governance



DOMAIN 7

Structure Security



DOMAIN 8

Virtualization and Containers



DOMAIN 9

Incident Response



DOMAIN 10

Application Security



DOMAIN 11

Data Security and Encryption



DOMAIN 12

Identity, Entitlement and Access Management



DOMAIN 13

Security as a Service



DOMAIN 14

Related Technologies



EXTRA DOMAIN

Cloud Controls Matrix



EXTRA DOMAIN

ENISA Recommendations

CCAK

CCAK



CCAK



CCAK



Modules Covered

- | | | | | |
|------------------------------|--------------------------------------|---|---|---|
| 1
Cloud Governance | 2
Cloud Compliance Program | 3
CCM and CAIQ: Goals, Objectives and Structure | 4
A Threat Analysis Methodology for Cloud using CCM | 5
Evaluating a Cloud Compliance Program |
| 6
Cloud Auditing | 7
CCM: Auditing controls | 8
Continuous Assurance and Compliance | 9
STAR Program | |

CCAK



- (Cloud) Security third-party auditors
- (Cloud) Security internal auditors
- CISOs
- Chief Privacy Officers
- Data Protection Officers
- Compliance Managers
- Vendor/Partners Program Managers
- Procurement Officers
- CSA STAR Program Auditors/Assessors (STAR Certification, STAR Attestation)
- CSA Code of Conduct assessors
- Security and Privacy Consultants

1

Cloud Governance

5

Evaluating a Cloud
Compliance Program

6

Cloud Auditing

7

CCM: Auditing controls

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Continuous Assurance and
Compliance

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STAR Program

CCAK



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- Should be available in Q4 2020*

1

Cloud Governance

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Evaluating a Cloud
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Cloud Auditing

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CCM: Auditing controls

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Continuous Assurance and
Compliance

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STAR Program

(ISC)² CCSP

(ISC)² CCSP



Certified Cloud
Security Professional

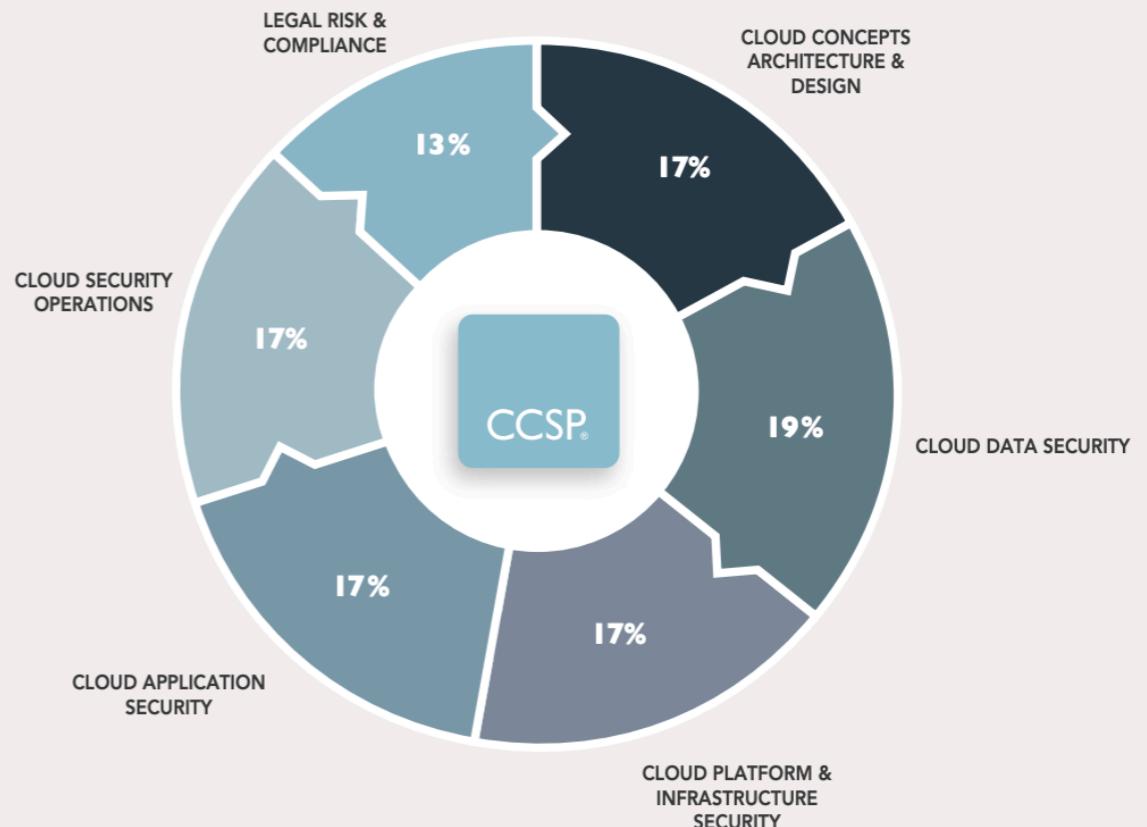
(ISC)² CCSP



Certified Cloud
Security Professional

CCSP Exam Overview

The CCSP exam evaluates expertise across six security domains. (Think of domains as topics you need to master based on your professional experience and education.) Passing the exam proves you have the advanced knowledge and technical skills to effectively design, to design, manage and secure data, applications and infrastructure in the cloud using best practices, policies and procedures.



(ISC)² CCSP



Certified Cloud
Security Professional

125

Number of CCSP certification exam items

3

Amount of time allowed for taking
the CCSP certification exam

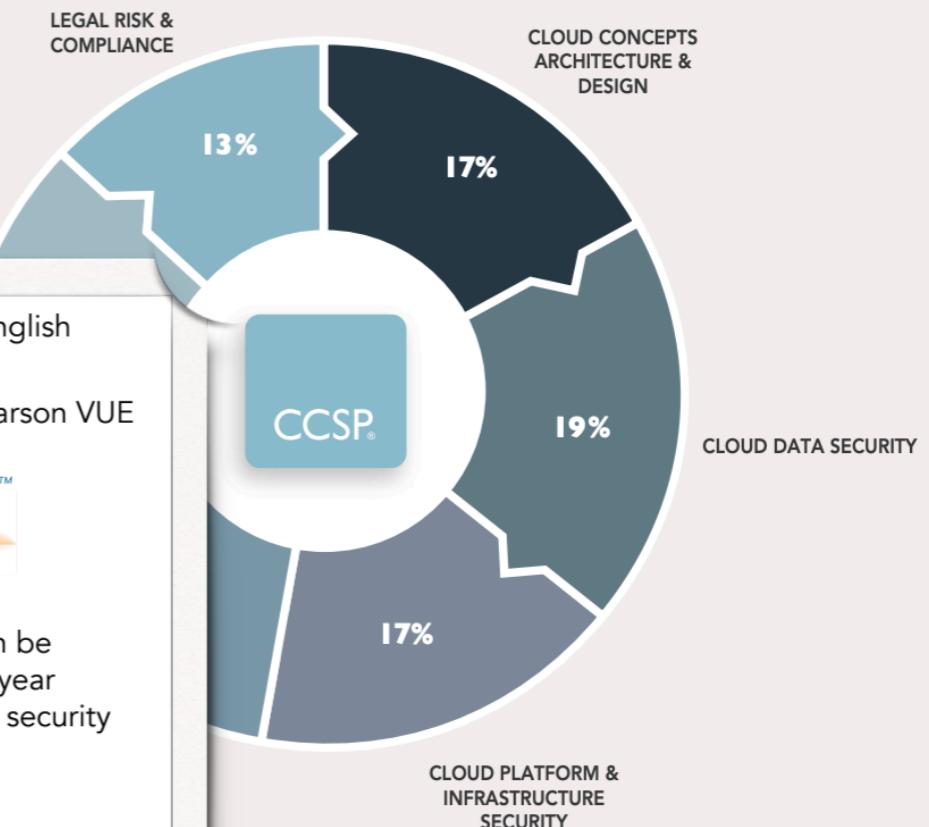
hrs.

700

Score you need out of 1,000
to pass the exam

CCSP Exam Overview

The CCSP exam evaluates expertise across six security domains. (Think of domains as topics you need to master based on your professional



Exam availability: English

Testing Centers: Pearson VUE



CCSK certificate can be substituted for one year experience in cloud security



CISSP certification holders automatically meet the experience requirements

(ISC)² CCSP



Certified Cloud
Security Professional

125

Number of CCSP certification exam items

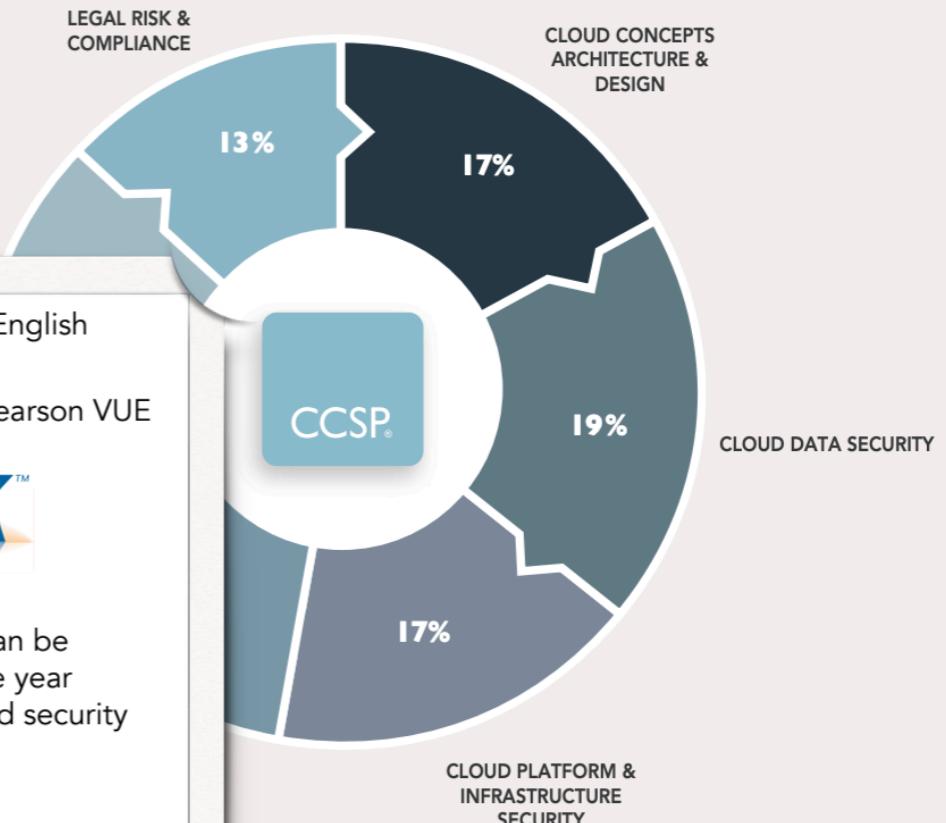
3
hrs.

700

Score you need out of 1,000
to pass the exam

\$599

The CCSP exam evaluates
expertise across six
security domains. (Think
of domains as topics you



Exam availability: English

Testing Centers: Pearson VUE



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GIAC GCSA

GIAC GCSA



GIAC GCSA



Who is GCSA for?

- Anyone working in a public cloud or DevOps environment
- Developers
- Software architects
- Operations engineers
- System administrators
- Security analysts and engineers
- Auditors
- Risk managers
- Security consultants

GIAC GCSA



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What it Covers

GIAC GCSA



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What it Covers

Microservice Security
Cloud Security Fundamentals
Cloud Security Monitoring
Compliance as Code
Configuration Management as Code
Container Security
Continuous Security Monitoring

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Microservice Security
Cloud Security Fundamentals
Cloud Security Monitoring
Compliance as Code
Configuration Management as Code
Container Security
Continuous Security Monitoring

Data Protection and Secrets Management
Deployment Orchestration and Secure Content Delivery
DevOps Fundamentals
DevSecOps Security Controls
Runtime Security Automation
Secure Infrastructure as Code
Securing Cloud Architecture
Serverless Security

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What it Covers

Requirements

- 1 proctored exam
- 75 questions
- Time limit of 2 hours
- Minimum Passing Score of 61%

Microservice Security
Cloud Security Fundamentals
Cloud Security Monitoring
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\$1999

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Microservice Security
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Runtime Security Automation
Secure Infrastructure as Code
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Serverless Security

SANS Cloud Security

SANS Cloud Security

LONG COURSES

SEC488: Cloud Security Essentials

Learning the language of Cloud Security

SEC510: Multicloud Security Assessment & Defense

Multiple clouds require multiple solutions.



SEC522: Defending Web Applications Security Essentials

Not a matter of "if" but "when". Be prepared for a web app attack. We'll teach you how.



SEC540: Cloud Security and DevOps Automation

The cloud moves fast. Automate to keep up.

SEC545: Cloud Security Architecture & Operations

In the Cloud, no one can hear you scream. Architect it properly and you won't have to.

SEC588: Cloud Penetration Testing

Aim your arrows to the sky and penetrate the Cloud.

SEC584: Cloud Native Security: Defending Containers and Kubernetes

Deliver securely at the speed of cloud native!

MGT516: Managing Security Vulnerabilities: Enterprise & Cloud

Stop treating the symptoms. Cure the disease.

SHORT COURSES

SEC534: Secure DevOps: A Practical Introduction

Principles! Practices! Tools! Oh My! Start your journey on the DevSecOps road here.

SEC541: Cloud Monitoring and Threat Hunting

You can run, but you can't hide! You're on our radar.

MGT520: Leading Cloud Security Design & Implementation

Building and leading a cloud security program

AWS Security Specialty

AWS Security Specialty



AWS Security Specialty



Domain	% of Examination
Domain 1: Incident Response	12%
Domain 2: Logging and Monitoring	20%
Domain 3: Infrastructure Security	26%
Domain 4: Identity and Access Management	20%
Domain 5: Data Protection	22%
TOTAL	100%

Domain 1: Incident Response

- 1.1 Given an AWS abuse notice, evaluate the suspected compromised instance or exposed access keys.
- 1.2 Verify that the Incident Response plan includes relevant AWS services.
- 1.3 Evaluate the configuration of automated alerting, and execute possible remediation of security-related incidents and emerging issues.

Domain 2: Logging and Monitoring

- 2.1 Design and implement security monitoring and alerting.
- 2.2 Troubleshoot security monitoring and alerting.
- 2.3 Design and implement a logging solution.
- 2.4 Troubleshoot logging solutions.

Domain 3: Infrastructure Security

- 3.1 Design edge security on AWS.
- 3.2 Design and implement a secure network infrastructure.
- 3.3 Troubleshoot a secure network infrastructure.
- 3.4 Design and implement host-based security.

Domain 4: Identity and Access Management

- 4.1 Design and implement a scalable authorization and authentication system to access AWS resources.
- 4.2 Troubleshoot an authorization and authentication system to access AWS resources.

Domain 5: Data Protection

- 5.1 Design and implement key management and use.
- 5.2 Troubleshoot key management.
- 5.3 Design and implement a data encryption solution for data at rest and data in transit.

AWS Security Specialty



Domain	% of Examination
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TOTAL	100%

Exam Details	
	Format Multiple choice, multiple answer
	Type Specialty
	Delivery Method Testing center or online proctored exam
	Time 170 minutes to complete the exam
	Cost 300 USD (Practice exam: 40 USD)
	Language Available in English, Japanese, Korean, and Simplified Chinese

Domain 1: Incident Response

- 1.1 Given an AWS abuse notice, determine the appropriate course of action.
- 1.2 Verify that the Incident Response plan is up-to-date and follows best practices.
- 1.3 Evaluate the configuration of AWS CloudTrail and CloudWatch Logs for monitoring incidents and emerging issues.

Domain 2: Logging and Monitoring

- 2.1 Design and implement a centralized logging architecture using CloudWatch Logs.
- 2.2 Troubleshoot security monitoring issues using CloudWatch Metrics and CloudWatch Metrics Insights.
- 2.3 Design and implement a solution for log analysis and compliance reporting.
- 2.4 Troubleshoot logging solutions for AWS Lambda functions.

Domain 3: Infrastructure Security

- 3.1 Design edge security on AWS CloudFront and AWS Global Accelerator.
- 3.2 Design and implement a secure network architecture using AWS VPC and AWS Direct Connect.
- 3.3 Troubleshoot a secure network connection between AWS accounts using AWS PrivateLink.
- 3.4 Design and implement a secure storage solution using AWS S3 and AWS Lambda.

Domain 4: Identity and Access Management

- 4.1 Design and implement a multi-factor authentication (MFA) solution for AWS accounts.
- 4.2 Troubleshoot an authorization issue using AWS IAM and AWS STS.

Domain 5: Data Protection

- 5.1 Design and implement key management solutions using AWS KMS and AWS CloudHSM.
- 5.2 Troubleshoot key management issues using AWS CloudWatch Metrics and CloudWatch Metrics Insights.
- 5.3 Design and implement a data encryption solution for data at rest and data in transit.

Azure Security Engineer (AZ-500)

Azure Security Engineer (AZ-500)



Azure Security Engineer (AZ-500)



- Manage identity and access (30-35%)
- Implement platform protection (15-20%)
- Manage security operations (25-30%)
- Secure data and applications (20-25%)

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- Manage identity and access (30-35%)
- Implement platform protection (15-20%)
- Manage security operations (25-30%)
- Secure data and applications (20-25%)

Questions: 40-60

Time: 150 Minutes

Pass Score: 700/1000

Azure Security Engineer (AZ-500)



- Manage identity and access (30-35%)
- Implement platform protection (15-20%)
- Manage security operations (25-30%)
- Secure data and applications (20-25%)

Questions: 40-60

Time: 150 Minutes

Pass Score: 700/1000

Exam AZ-500: Microsoft Azure Security Technologies

Languages: English, Japanese, Chinese (Simplified), Korean

Retirement date: none

This exam measures your ability to accomplish the following technical tasks: manage identity and access; implement platform protection; manage security operations; and secure data and applications.

United States 

\$165 USD*

Price based on the country in which the exam is proctored.

Google Cloud Security Engineer (Professional)

Google Cloud Security Engineer (Professional)



Google Cloud Security Engineer (Professional)



The Professional Cloud Security Engineer exam assesses your ability to:

- ✓ Configure access within a cloud solution environment
- ✓ Configure network security
- ✓ Ensure data protection
- ✓ Manage operations within a cloud solution environment
- ✓ Ensure compliance

Google Cloud Security Engineer (Professional)



The Professional Cloud Security Engineer exam assesses your ability to:

- ✓ Configure access within a cloud solution environment
- ✓ Configure network security
- ✓ Ensure data protection
- ✓ Manage operations within a cloud solution environment
- ✓ Ensure compliance

- **Length:** 2 hours
- **Registration fee:** \$200 (plus tax where applicable)
- **Languages:** English.
- **Exam format:** Multiple choice and multiple select, taken in person at a test center. [Locate a test center near you.](#)
- **Prerequisites:** None
- **Recommended experience:** 3+ years of industry experience including 1+ years designing and managing solutions using GCP.

CDA (Certified DevSecOps Architect) form PDSO

CDA (Certified DevSecOps Architect) form PDSO



CDA (Certified DevSecOps Architect) form PDSO



Certified DevSecOps Architect CDA

The most comprehensive DevSecOps certification in the world. This AWS DevSecOps Certification is designed to implement the DevSecOps principle on AWS by securing compute services, patch management, data and network security, compliance, and more.

AWS Certification



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So, which Certification you are preparing now?

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So, which Certification you are preparing now?

Was this video helpful for you?

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