Pass GCP-PCA Professional Cloud Architect Exam: Study Tips & Resources!

GOOGLE PROFESSIONAL CLOUD ARCHITECT CERTIFICATION QUESTIONS & ANSWERS

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GCP-PCA

Google Cloud Platform - Professional Cloud Architect (GCP-PCA)

50-60 Questions Exam – 70% Cut Score – Duration of 120 minutes

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Get Ready for the GCP-PCA Exam:

Prepare effectively for the GCP-PCA exam using reliable study strategies and methods. Enhance your preparedness, deepen your understanding of the Professional, and enhance your likelihood of achieving success in the Google Google Cloud Platform - Professional Cloud Architect (GCP-PCA) with our comprehensive guide. Embark on your path to exam excellence today.

Know More About the Google Cloud Platform - Professional Cloud Architect (GCP-PCA) Certification:

Exam Name	Google Professional Cloud Architect
Exam Code	GCP-PCA
Exam Price	$200 USD
Duration	120 minutes
Number of Questions	50-60 multiple choice and multiple select questions
Passing Score	Pass / Fail (Approx 70%)
Recommended Training / Books	Google Cloud training Google Cloud documentation Google Cloud solutions
Schedule Exam	PEARSON VUE
Sample Questions	Google GCP-PCA Sample Questions
Recommended Practice	Google Cloud Platform - Professional Cloud Architect (GCP-PCA) Practice Test

Learn More About the GCP-PCA Syllabus:

Section	Objectives
Designing and planning a cloud solution architecture (24% of the exam)	
Designing a solution infrastructure that	- Business use cases and product strategy - Cost optimization

Section	Objectives
meets business requirements. Considerations include:	- Supporting the application design - Integration with external systems - Movement of data - Design decision trade-offs - Build, buy, modify, or deprecate - Success measurements (e.g., key performance indicators [KPI], return on investment [ROI], metrics) - Compliance and observability
Designing a solution infrastructure that meets technical requirements. Considerations include:	- High availability and failover design - Elasticity of cloud resources with respect to quotas and limits - Scalability to meet growth requirements - Performance and latency
Designing network, storage, and compute resources. Considerations include:	- Integration with on-premises/multicloud environments - Cloud-native networking (VPC, peering, firewalls, container networking) - Choosing data processing technologies - Choosing appropriate storage types (e.g., object, file, databases) - Choosing compute resources (e.g., preemptible, custom machine type, specialized workload) - Mapping compute needs to platform products
Creating a migration plan (i.e., documents and architectural diagrams). Considerations include:	- Integrating solutions with existing systems - Migrating systems and data to support the solution - Software license mapping - Network planning - Testing and proofs of concept - Dependency management planning
Envisioning future solution improvements. Considerations	- Cloud and technology improvements - Evolution of business needs - Evangelism and advocacy

Section	Objectives
include:	
Managing and provisioning a solution infrastructure (15% of the exam)	
Configuring network topologies. Considerations include:	- Extending to on-premises environments (hybrid networking) - Extending to a multicloud environment that may include Google Cloud to Google Cloud communication - Security protection (e.g. intrusion protection, access control, firewalls)
Configuring individual storage systems. Considerations include:	- Data storage allocation - Data processing/compute provisioning - Security and access management - Network configuration for data transfer and latency - Data retention and data life cycle management - Data growth planning
Configuring compute systems. Considerations include:	- Compute resource provisioning - Compute volatility configuration (preemptible vs. standard) - Network configuration for compute resources (Google Compute Engine, Google Kubernetes Engine, serverless networking) - Infrastructure orchestration, resource configuration, and patch management - Container orchestration
Designing for security and compliance (18% of the exam)	
Designing for security. Considerations include:	- Identity and access management (IAM) - Resource hierarchy (organizations, folders, projects) - Data security (key management, encryption, secret management) - Separation of duties (SoD) - Security controls (e.g., auditing, VPC Service Controls,

Section	Objectives
	context aware access, organization policy) - Managing customer-managed encryption keys with Cloud Key Management Service - Remote access
Designing for compliance. Considerations include:	- Legislation (e.g., health record privacy, children's privacy, data privacy, and ownership) - Commercial (e.g., sensitive data such as credit card information handling, personally identifiable information [PII]) - Industry certifications (e.g., SOC 2) - Audits (including logs)
Analyzing and optimizing technical and business processes (18% of the exam)	
Analyzing and defining technical processes. Considerations include:	- Software development life cycle (SDLC) - Continuous integration / continuous deployment - Troubleshooting / root cause analysis best practices - Testing and validation of software and infrastructure - Service catalog and provisioning - Business continuity and disaster recovery
Analyzing and defining business processes. Considerations include:	- Stakeholder management (e.g. influencing and facilitation) - Change management - Team assessment / skills readiness - Decision-making processes - Customer success management - Cost optimization / resource optimization (capex / opex)
Developing procedures to ensure reliability of solutions in production (e.g., chaos engineering, penetration testing)	

Section	Objectives
Managing implementation (11% of the exam)	
Advising development/operation teams to ensure successful deployment of the solution. Considerations include:	- Application development - API best practices - Testing frameworks (load/unit/integration) - Data and system migration and management tooling
Interacting with Google Cloud programmatically. Considerations include:	- Google Cloud Shell - Google Cloud SDK (gcloud, gsutil and bq) - Cloud Emulators (e.g. Cloud Bigtable, Datastore, Spanner, Pub/Sub, Firestore)
Ensuring solution and operations reliability (14% of the exam)	
Monitoring/logging/profiling/alerting solution	
Deployment and release management	
Assisting with the support of deployed solutions	
Evaluating quality control measures	

Prepare with GCP-PCA Sample Questions:

Question: 1

Your company has made plans to roll out OpenShift, a Kubernetes platform solution offered by IBM Red Hat, across all its on-premises and public cloud environments.

Given that you are the lead architect responsible for your company's GCP deployments, what type of shared responsibility model will this deployment entail for you?

a) On-premises
b) IaaS
c) PaaS
d) SaaS

Answer: b

Question: 2

In May 2018, the EU began enforcement of a new privacy regulation known as the GDPR. This required many companies to change how they manage personal information about citizens of the EU.

This is an example of what kind of change?

a) Individual choice
b) Competition
c) Skills gap
d) Regulation

Answer: d

Question: 3

The database administration team has asked you to help them improve the performance of their new database server running on Compute Engine.

The database is used for importing and normalizing the company's performance statistics. It is built with MySQL running on Debian Linux. They have an n1-standard-8 virtual machine with 80 GB of SSD zonal persistent disk.

What should they change to get better performance from this system in a cost-effective manner?

a) Increase the virtual machine's memory to 64 GB.
b) Create a new virtual machine running PostgreSQL.
c) Dynamically resize the SSD persistent disk to 500 GB.
d) Migrate their performance metrics warehouse to BigQuery.

Answer: c

Question: 4

To reduce costs, the Director of Engineering has required all developers to move their development infrastructure resources from on-premises virtual machines (VMs) to Google Cloud Platform.

These resources go through multiple start/stop events during the day and require state to persist. You have been asked to design the process of running a development environment in Google Cloud while providing cost visibility to the finance department.

Which two steps should you take?

a) Use persistent disks to store the state. Start and stop the VM as needed.
b) Use the - -no-auto-delete flag on all persistent disks and stop the VM
c) Apply VM CPU utilization label and include it in the BigQuery billing export.
d) Use Google BigQuery billing export and labels to associate cost to groups
e) Store all state in local SSD, snapshot the persistent disks, and terminate the VM.
f) Store all state in Cloud Storage, snapshot the persistent disks, and terminate the VM.

Answer: b, d

Question: 5

Which Google Cloud Platform database offering is best suited for integration with client-side mobile and web applications, gaming leaderboards, and user presence at global scale?

a) BigQuery
b) Cloud Memorystore
c) Cloud Bigtable
d) Cloud Firestore

Answer: d

Question: 6

You are designing a mobile chat application. You want to ensure that people cannot spoof chat messages by proving that a message was sent by a specific user. What should you do?

a) Encrypt the message client-side using block-based encryption with a shared key.
b) Tag messages client-side with the originating user identifier and the destination user.
c) Use a trusted certificate authority to enable SSL connectivity between the client application and the server.
d) Use public key infrastructure (PKI) to encrypt the message client-side using the originating user's private key.

Answer: d

Question: 7

Your customer is moving their corporate applications to Google Cloud Platform. The security team wants detailed visibility of all resources in the organization. You use Resource Manager to set yourself up as the org admin.

What Cloud Identity and Access Management (Cloud IAM) roles should you give to the security team?

a) Org viewer, Project owner
b) Org viewer, Project viewer
c) Org admin, Project browser
d) Project owner, Network admin

Answer: b

Question: 8

Which of the following service level measures are considered a legally enforceable contract between the service provider and the service consumer?

a) SLA
b) SLE
c) SLO
d) SLI

Answer: a

Question: 9

Data can be encrypted at different layers of the OSI network stack. Google Cloud may encrypt network data at multiple levels. What protocol is used at layer 7?

a) IPSec
b) TLS
c) ALTS
d) ARP

Answer: c

Question: 10

Your company is looking to connect their onsite networks to a GCP VPC, in order to dynamically exchange routes between each site. Which service would you advise?

a) Cloud Router
b) Cloud Interconnect
c) External peering
d) Cloud DNS

Answer: a

Tips for Success in the Google Professional Cloud Architect Exam:

Familiarize Yourself with the GCP-PCA Exam Format:

Before starting your study regimen, it's crucial to acquaint yourself with the structure of the GCP-PCA exam. Take a moment to **review the exam syllabus**, grasp the test format, and pinpoint the main areas of concentration. Having prior knowledge of the exam's layout will assist you in customizing your study strategy effectively.

Create A Study Timetable for the GCP-PCA Exam:

To prepare efficiently for the GCP-PCA exam, devise a study schedule that aligns with your lifestyle and preferred learning approach. Allocate dedicated time slots for studying each day, prioritizing topics according to their significance and your level of proficiency. Maintaining consistency by adhering to your schedule and steering clear of procrastination is imperative.

Diversify Your Study Sources:

Ensure you broaden your study material beyond just one source. Use various resources like textbooks, online courses, practice exams, and study guides to understand the GCP-PCA exam subjects thoroughly. Each resource provides distinct perspectives and explanations that can enrich your learning journey.

Regular Practice for the GCP-PCA Exam:

Consistent practice is essential for effective preparation for the GCP-PCA exam. Engaging in regular practice enables you to strengthen your grasp of essential concepts, improve your problem-solving abilities, and become accustomed to the exam format. Allocate dedicated time to solving practice questions and sample tests to assess your progress accurately.

Allow for Rest and Breaks:

While studying is crucial, taking breaks and rest is equally vital. Pushing yourself too hard without sufficient rest can result in burnout and reduced effectiveness. Incorporate short breaks into your study sessions to recharge and stay focused.

Maintain Organization Throughout Your GCP-PCA Exam Preparation:

Keep yourself organized as you prepare for the GCP-PCA exam by monitoring your progress and managing your materials effectively. Ensure your study area remains neat, utilize folders or digital aids to arrange your notes and resources, and develop a

checklist of topics to review. Employing an organized approach will assist you in staying focused and reducing stress levels.

Seek Guidance from Mentors:

Feel free to ask for clarification when you come across confusing or difficult concepts during your study sessions. Seek support from peers, instructors, or online forums to address any uncertainties. Addressing doubts will prevent misunderstandings and ensure you develop a strong **understanding of the material**.

Regular Review is Crucial for the GCP-PCA Exam:

Frequent revisiting of material is paramount for retaining information over the long term. Revisit topics you've already covered to strengthen your comprehension and pinpoint areas that need further focus. Regular review sessions will **solidify your understanding** and enhance your confidence.

Master Time Management for the GCP-PCA Exam:

Skillful time management is essential on the exam day to ensure you finish all sections within the designated time limits. During your practice sessions, replicate the conditions of the GCP-PCA exam and practice managing your time accordingly. Formulate strategies for efficiently addressing each section to optimize your score.

Have A Positive Mindset:

Finally, maintain a positive attitude and have faith in your capabilities. Stay confident in your preparation and trust that you are well-prepared to handle the GCP-PCA exam. Envision success, remain focused, and approach the exam calmly and objectively.

Benefits of Passing the GCP-PCA Exam:

- Completing the GCP-PCA exam unlocks pathways to fresh career prospects and progression within your industry.
- The extensive preparation needed for the GCP-PCA certification equips you with comprehensive knowledge and practical expertise applicable to your field.
- Possessing the GCP-PCA certification showcases your mastery and dedication to excellence, garnering acknowledgment from both peers and employers.
- Certified professionals often command higher salaries and have greater potential for earning than those without certification.
- Acquiring the GCP-PCA certification validates your competence and trustworthiness, fostering confidence among clients, employers, and peers.

Explore the Trusted Practice Exam for the GCP-PCA Certification:

At vmexam.com, you'll find comprehensive resources for the GCP-PCA exam. Our platform offers authentic practice exams tailored specifically for the GCP-PCA certification. What advantages do these practice exams provide? You'll encounter genuine exam-style questions expertly crafted by industry professionals, allowing you to improve your performance in the exam. Rely on vmexam.com for rigorous, unlimited access to **GCP-PCA practice exams** for two months, allowing you to boost your confidence steadily. Through focused practice, numerous candidates have successfully streamlined their path to achieving the Google Cloud Platform - Professional Cloud Architect (GCP-PCA).

Final Remarks:

Preparing for the GCP-PCA examination demands commitment, strategic planning, and efficient study methods. Implementing these study suggestions can enrich your preparation, elevate your self-assurance, and increase your likelihood of excelling in the exam. Keep your focus sharp, maintain organization, and believe in your abilities. Best of luck!

Here Is the Trusted Practice Test for the GCP-PCA Certification

VMExam.Com is here with all the necessary details regarding the GCP-PCA exam. We provide authentic practice tests for the GCP-PCA exam. What do you gain from these practice tests? You get to experience the real exam-like questions made by industry experts and get a scope to improve your performance in the actual exam. Rely on VMExam.Com for rigorous, unlimited two-month attempts on the **GCP-PCA practice tests**, and gradually build your confidence. Rigorous practice made many aspirants successful and made their journey easy towards grabbing the Google Cloud Platform - Professional Cloud Architect (GCP-PCA).

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