



Road to Google Cloud Certification

Study Group - Week 1



Week 1

Professional Cloud Architect

Tous les mardi de 13h à 13h45

[Slack: Rejoignez le canal
#cloud-architect-french](#)

RSVP aux events de votre GDG



```
let filteredStudies = studies.filter(study => {  
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  }  
  return false  
})
```



Les GDGs (Google Developers Groups) sont des groupes communautaires bénévoles ayant en commun l'objectif de partager sur les technologies mais pas que !

Nous avons différents formats de meetups & conférences.

Vous trouverez quelques liens dans le chat !



“

Tour des GDGs



Vous êtes 218+ inscrits ! 🎉

”



Road to Certification

Overview

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function filterStudies({ studies, filterByOrg = false, filterByStatus = false }) {  
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Partir d'

Un apprentissage



Vers

Un nouveau rôle
(travail) et expertises



1ère Étape : le Info Session

Le 30 Mars

- **Vidéo du 30 Mars :** [\[GDG\] Certification Study Group - Session d'information sur les certifications Google Cloud](#)
- **Slides du 30 Mars :**
<https://speakerdeck.com/jlandure/certification-study-group-session-dinformation-sur-les-certifications-google-cloud>
- **Autre vidéo de 2021 présentant les certifications :** [Road to Google Cloud Certification : tout savoir pour passer la Cloud Architect !](#)



Comment suivre le programme ?

★ Plusieurs étapes OBLIGATOIRES !

1. Inscription au gForm :

https://docs.google.com/forms/d/e/1FAIpQLSfdlb4r5cuQ9UArVlk_3pQHhDdGgxkjTtsuYoAB1oMm5iPRqQ/viewform

2. Inscription au GDGs : RSVP à chaque event du mardi "Cloud Study Group"

Exemple GDG Cloud Nantes :

<https://gdg.community.dev/events/details/google-gdg-cloud-nantes-presents-certification-study-group-road-to-certification-pca-2023-04-18/>

3. Inscription à la plateforme CloudSkillsboost : <https://www.cloudskillsboost.google/>



Est-ce obligatoire de suivre les cours ?

> Rien ne vous oblige à suivre exactement ce qu'on fait.

Si je loupe un point de suivi le Mardi ?

> Cela sera enregistré et partagé sur le Slack

Si j'ai des questions, qui contacter ?

> Premier réflexe : la communauté en utilisant Slack

Des problèmes de crédits (+ que 3j) ?

> credit / registration issues : gdg-support@google.com

> platform / other issues : support@qwiklabs.com



Combien de temps dois-je consacrer ?

> Entre 06h et 08h par semaine selon vos connaissances

Aurais-je un voucher (réduction) ?

> Nous travaillons avec Google pour avoir des vouchers 50%

Si j'ai pas le temps de tout faire ?

> Vous pouvez rattraper une autre semaine si besoin...

Et le Learning Path "Cloud Architect"

> Cela correspond au programme officiel de 6 semaines avec un mélange de vidéos et de labs.



Les crédits expirent ?

> Oui selon vos RSVP aux events GDGs

Jusqu'à quand ?

> Les événements courent sur Avril / Mai. Pas d'accès après.

Comment réserver mon examen onsite ?

> <https://www.kryterion.com/locate-test-center/>

Et en ligne ?

> <https://www.webassessor.com/googlecloud/>



Y'a des cadeaux ?

> Oui en cas de succès à l'examen ! (sac, gourde)

La certification est valable longtemps ?

> 2 ans et au renouvellement, vous avez 50% de réduction

Je peux afficher ma certification ?

> Oui LinkedIn & <https://googlecloudcertified.credential.net/>



1

Certification Journey Overview

2

Spotlight on Professional Cloud Architect

3

Sneak Peak of Study Group Topics

4

Certification Prep Tips and Tricks

5

Sample Questions Review

6

Next Steps

Google Cloud Certification Journey Overview

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Certification Learning Journey

Apprendre ensemble !

- **Certification Study group:** weekly live sessions for 6 weeks to go through content and exam prep questions 🖱️ **C'est nous maintenant !** ❤️
- **On-demand resources:** Access to Cloud Skills Boost courses and labs, and additional learning material on certification content and exam questions. 🖱️ **Cloudskillsboost** 🎓
- **Deeper engagement** through instructor led sessions. 🖱️ **Posez vos questions !** 🗨️
- **Community support:** Learn together with a local community to get support from experts and other fellow developers. 🖱️ **Slack pour vous** 💬



Skill badges

Infrastructure Modernization	 Create and Manage Cloud Resources INFRASTRUCTURE MODERNIZATION SKILL	 Perform Foundational Infrastructure Tasks INFRASTRUCTURE MODERNIZATION SKILL	 Build a Website in Google Cloud INFRASTRUCTURE MODERNIZATION SKILL	 Monitor and Log with Google Cloud Operations Suite INFRASTRUCTURE MODERNIZATION SKILL	 Automating Infrastructure on Google Cloud with Terraform INFRASTRUCTURE MODERNIZATION SKILL	 Deploy and Manage Cloud Environments INFRASTRUCTURE MODERNIZATION SKILL	 Setup and Configure a Cloud Environment INFRASTRUCTURE MODERNIZATION SKILL
Hybrid & Multi-Cloud	 Deploy to Kubernetes HYBRID AND MULTI-CLOUD SKILL	 Secure Workloads in Google Kubernetes Engine HYBRID AND MULTI-CLOUD SKILL	 Optimize Costs for Google Kubernetes Engine HYBRID AND MULTI-CLOUD SKILL				
Application Modernization	 Build Interactive Apps with Google Assistant APPLICATION MODERNIZATION SKILL	 Implement DevOps in Google Cloud APPLICATION MODERNIZATION SKILL	 Build and Manage APIs with Apigee APPLICATION MODERNIZATION SKILL	 Serverless Firebase Development APPLICATION MODERNIZATION SKILL	 Implement DevOps in Google Cloud APPLICATION MODERNIZATION SKILL	 Serverless Cloud Run Development APPLICATION MODERNIZATION SKILL	
Security	 Ensure Access and Identity SECURITY SKILL	 Build and Secure Networks SECURITY SKILL					
Machine Learning & AI	 Perform Foundational Data, ML, and AI Tasks SMART ANALYTICS SKILL	 Explore Machine Learning Models with Explainable AI SMART ANALYTICS SKILL	 Create ML Models with BigQuery ML SMART ANALYTICS SKILL	 Automate Interactions with Contact Center AI SMART ANALYTICS SKILL	 Integrate with Machine Learning APIs SMART ANALYTICS SKILL	 Build and Deploy Machine Learning Solutions on Vertex AI SMART ANALYTICS SKILL	
Smart Analytics	 Insights from Data with BigQuery SMART ANALYTICS SKILL	 Exploring Data with Looker SMART ANALYTICS SKILL	 Build and Optimize Data Warehouses with BigQuery SMART ANALYTICS SKILL	 Engineer Data in Google Cloud SMART ANALYTICS SKILL	 Migrate MySQL data to Cloud SQL using Database Migration Services DATA MANAGEMENT		

Google Cloud skill badge is a digital badge issued by Google Cloud in recognition of an individual's cloud competency.



Road to Google Developers Certification



Focus sur la Professional Cloud Architect

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Google Cloud certifications



Cloud
Digital
Leader



Associate
Cloud
Engineer



Professional
Cloud Architect



Professional
Data Engineer



Professional
Machine Learning
Engineer



Professional
Cloud DevOps
Engineer



Professional
Google
Workspace
Administrator



Professional
Cloud
Developer



Professional
Cloud Network
Engineer



Professional
Cloud Security
Engineer

Foundational

No cloud experience needed

Associate

Recommended 6+ months
hands-on experience
with Google Cloud

Professional

Recommended
3+ years industry experience
& 1 year hands-on experience
with Google Cloud



Professional Cloud Architect

A Professional Cloud Architect enables organizations to leverage Google Cloud technologies. With a thorough understanding of cloud architecture and Google Cloud Platform, this individual can design, develop, and manage robust, secure, scalable, highly available, and dynamic solutions to drive business objectives.



Professional Cloud Architect

The Professional Cloud Architect exam assesses your ability to:

- Design and plan a cloud solution architecture
- Manage and provision the cloud solution infrastructure
- Design for security and compliance
- Analyze and optimize technical and business processes
- Manage implementations of cloud architecture
- Ensure solution and operations reliability

Professional Cloud Architect

Learning Journey

Pre-work	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Exam weeks
Have real world hands on experience Review the PCA Exam Guide Review the PCA Sample Questions	A FAIRE AVANT LE 18 AVRIL On-demand training: Preparing for the Professional Cloud Architect Exam Google Cloud Fundamentals: Core Infrastructure Hands On Lab Practice:  Create and Manage Cloud Resources Skill Badge (5 hrs)	A FAIRE AVANT LE 25 AVRIL On-demand training: Essential Google Cloud Infrastructure: Foundation Essential Google Cloud Infrastructure: Core Services Hands On Lab Practice:  Perform Foundational Infrastructure Tasks in Google Cloud Skill Badge (4 hrs)	A FAIRE AVANT LE 02 MAI On-demand training: Elastic Google Cloud Infrastructure: Scaling and Automation Hands On Lab Practice:  Set Up and Configure a Cloud Environment in Google Cloud Skill Badge (6 hrs)	A FAIRE AVANT LE 09 MAI On-demand training: Reliable Cloud Infrastructure: Design and Process Hands On Lab Practice:  Automating Infrastructure on Google Cloud with Terraform Skill Badge (6 hrs)	A FAIRE AVANT LE 16 MAI On-demand training: Getting Started with Google Kubernetes Engine Hands On Lab Practice:  Deploy and Manage Cloud Environments with Google Cloud Skill Badge (8 hrs)	A FAIRE AVANT LE 23 MAI On-demand training: Logging, Monitoring and Observability in Google Cloud Hands On Lab Practice:  Optimize Costs for Google Kubernetes Engine Skill Badge (6 hrs) Check Readiness: PCA Sample Questions	Self study (and potential exam)
	EXAM GUIDE REVIEW + STUDY GROUP Mardi 18 Avril	EXAM GUIDE REVIEW + STUDY GROUP Mardi 25 Avril	EXAM GUIDE REVIEW + STUDY GROUP Mardi 02 Mai	EXAM GUIDE REVIEW + STUDY GROUP Mardi 09 Mai	EXAM GUIDE REVIEW + STUDY GROUP Mardi 16 Mai	EXAM GUIDE REVIEW + WRAP UP Mardi 23 Mai	

Les sujets semaine après semaine...

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Week 2 Study Group

- **Designing and planning a cloud solution architecture**
 - Designing a solution infrastructure that meets business requirements.
 - Designing a solution infrastructure that meets technical requirements.
 - Designing network, storage, and compute resources.
 - Creating a migration plan (i.e., documents and architectural diagrams).
 - Envisioning future solution improvements.

Week 3 Study Group

- **Managing and provisioning a solution Infrastructure**
 - Configuring network topologies.
 - Configuring individual storage systems.
 - Configuring computer systems.

Week 4 Study Group

- **Designing for security and compliance**
 - Designing for security.
 - Designing for compliance.
- **Analyzing and optimizing technical and business processes**
 - Analyzing and defining technical processes.
 - Analyzing and defining business processes.
 - Developing procedures to ensure resilience of solution in production (e.g., chaos engineering)

Week 5 Study Group

- **Managing implementation**
 - Advising development/operation team(s) to ensure successful deployment of the solution.
 - Interacting with Google Cloud using GCP SDK (gcloud, gsutil, and bq).
- **Ensuring solution and operations reliability**
 - Monitoring/logging/profiling/alerting solution
 - Deployment and release management
 - Assisting with the support of solutions in operation
 - Evaluating quality control measures

Week 6 Study Group

- **Managing service incidents**

- Coordinate roles and implement communication channels during a service incident
- Investigate incident symptoms impacting users
- Mitigate incident impact on users
- Resolve issues (e.g., Cloud Build, Jenkins)
- Document issue in a postmortem

Road to Certification

Initiatives de la communauté

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Notes de vidéos

> [lien vers le gDoc](#)

 Google Developer Groups

Road to Google Developers Certification

 Google Cloud



Joffrey Jougon 15:16

Hello tout le monde,

Juste pour vous partager un tips auquel j'ai pensé pour mieux réviser en utilisant Chat GPT 🤖

Dès que j'ai fini une vidéo, je copie colle le texte manuscrit des vidéos et lui envoie le contenu en lui demandant de me faire des notes (voir photos)

Je me suis dis que ça pouvait être pas mal plutôt que d'investir dans un bouquin, et puis comme ça, je suis sur que les infos sont à jour 😊

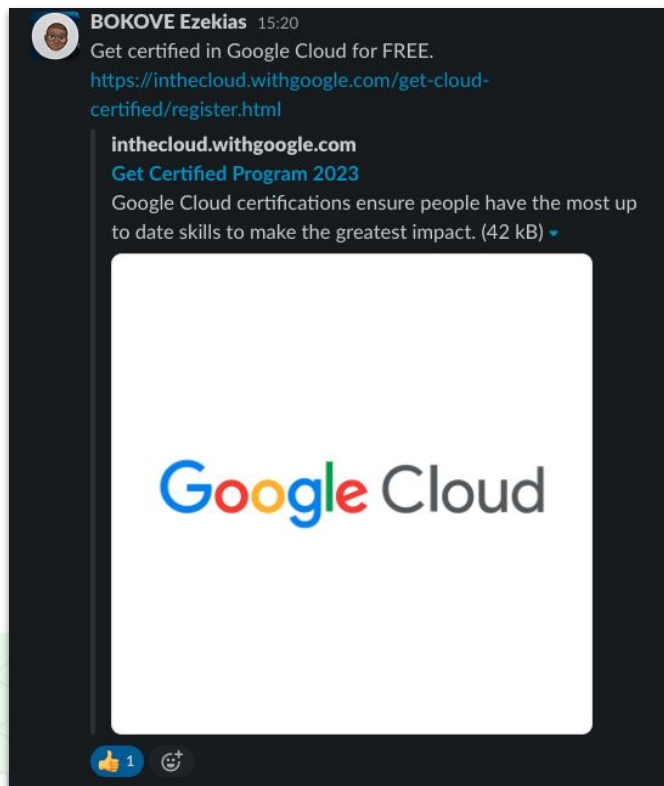
Faites juste attention de bien relire, on est jamais à l'abri des mauvaises surprises, mais globalement il renvoie toujours du bon contenu 😊

2 files ▼



Get certified in Google Cloud for FREE

> pour les pros



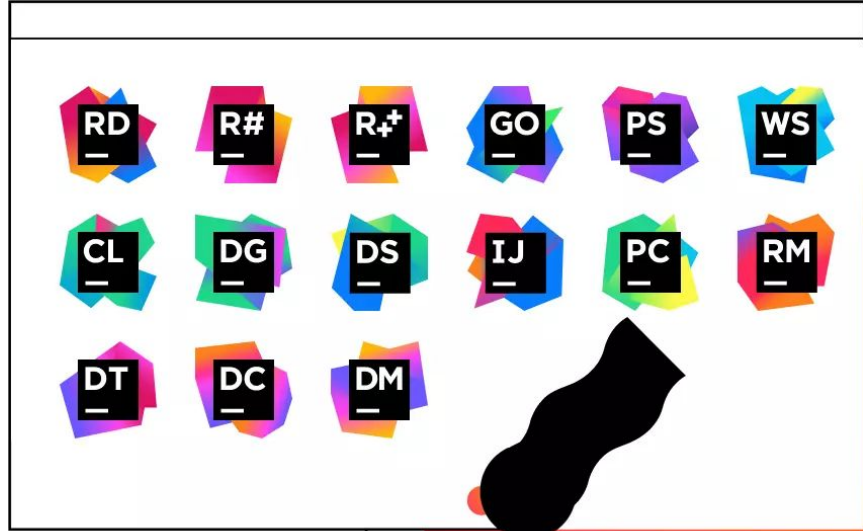
 Google Developer Groups

Road to Google Developers Certification

 Google Cloud

Gagnez une licence JetBrains

> c'est cadeau 🎉



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Certification Prep Tips and Tricks

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About the exams



Length
2 hours



Exam Format
Multiple choice
and multiple
select



Prerequisites
None



Recommended Experience
3+ years of industry
experience
including 1+ years
designing and
managing solutions
using GCP





1

Build / follow a study plan

2

Understand the business problem

3

Practice to learn (not just to pass)



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Sharing is caring

Learn together

Leverage the community

 Google Developer Groups

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 Google Cloud



Sample Questions Review

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Your customer is moving their corporate applications in Google Cloud. The security team wants detailed visibility of all resources in the organisation. You use Resource Manager to set yourself up as the Organisation Administrator. Which Cloud identity and Access Management (Cloud IAM) roles should you give to the security team while following Google recommended practices?

- A. Organisation viewer, Project owner
- B. Organisation viewer, Project viewer
- C. Organisation administrator, Project browser
- D. Project owner, Network administrator

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Your Site Reliability Engineering team does toil work to archive unused data in tables within your application's relational database. This toil is required to ensure that your application has a low Latency Service Level Indicator (SLI) to meet your Service Level Objective (SLO). Toil is preventing your team from focusing on a high-priority engineering project that will improve the Availability SLI of your application. You want to reduce repetitive tasks to avoid burnout, improve organizational efficiency, and follow the Site Reliability Engineering recommended practices. What should you do?

- A. Identify repetitive tasks that contribute to toil and onboard additional team members for support.
- B. Identify repetitive tasks that contribute to toil and automate them.
- C. Change the SLO of your Latency SLI to accommodate toil being done less often. Use this capacity to work on the Availability SLI engineering project.
- D. Assign the Availability SLI engineering project to the Software Engineering team.

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Your next steps



Follow your
learning plan
on Cloud
Skills Boost



Attend weekly
study group



Ask questions
and contribute
to the
community

Your next steps

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Professional Cloud Architect

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	EXAM GUIDE REVIEW + STUDY GROUP	EXAM GUIDE REVIEW + STUDY GROUP	EXAM GUIDE REVIEW + STUDY GROUP	EXAM GUIDE REVIEW + STUDY GROUP	EXAM GUIDE REVIEW + STUDY GROUP	EXAM GUIDE REVIEW + WRAP UP	

Complement your study with the [Professional Cloud Architect book](#) and exploring the [Google Cloud Documentation](#)

Communauté en ligne

Posez vos questions au fil de l'eau !

Rejoignez-nous



Thank you for tuning in!

For any operational questions about access to Cloud Skills Boost or the Road to Google Developers Certification program contact:

gdg-support@google.com



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