



**Get to Know the Google Cloud
Certification Paths:
Professional
Cloud Architect**

Cloud Architect

Level: Professional



The Professional Cloud Architect is key to activating the benefits of Google Cloud within an organization. Candidates need to have proficient knowledge of cloud strategy, solution design, and architecture best practices before taking this exam.

3+ years industry and 1+ years GCP experience recommended.
Exam length: Two hours | Available in: English, Japanese



Who Is It For?

While the professional-level certifications generally correlate to job title, be aware of title variations such as:



Cloud Architect
(Most common)



Cloud Infrastructure Engineer



Cloud Solution Architect



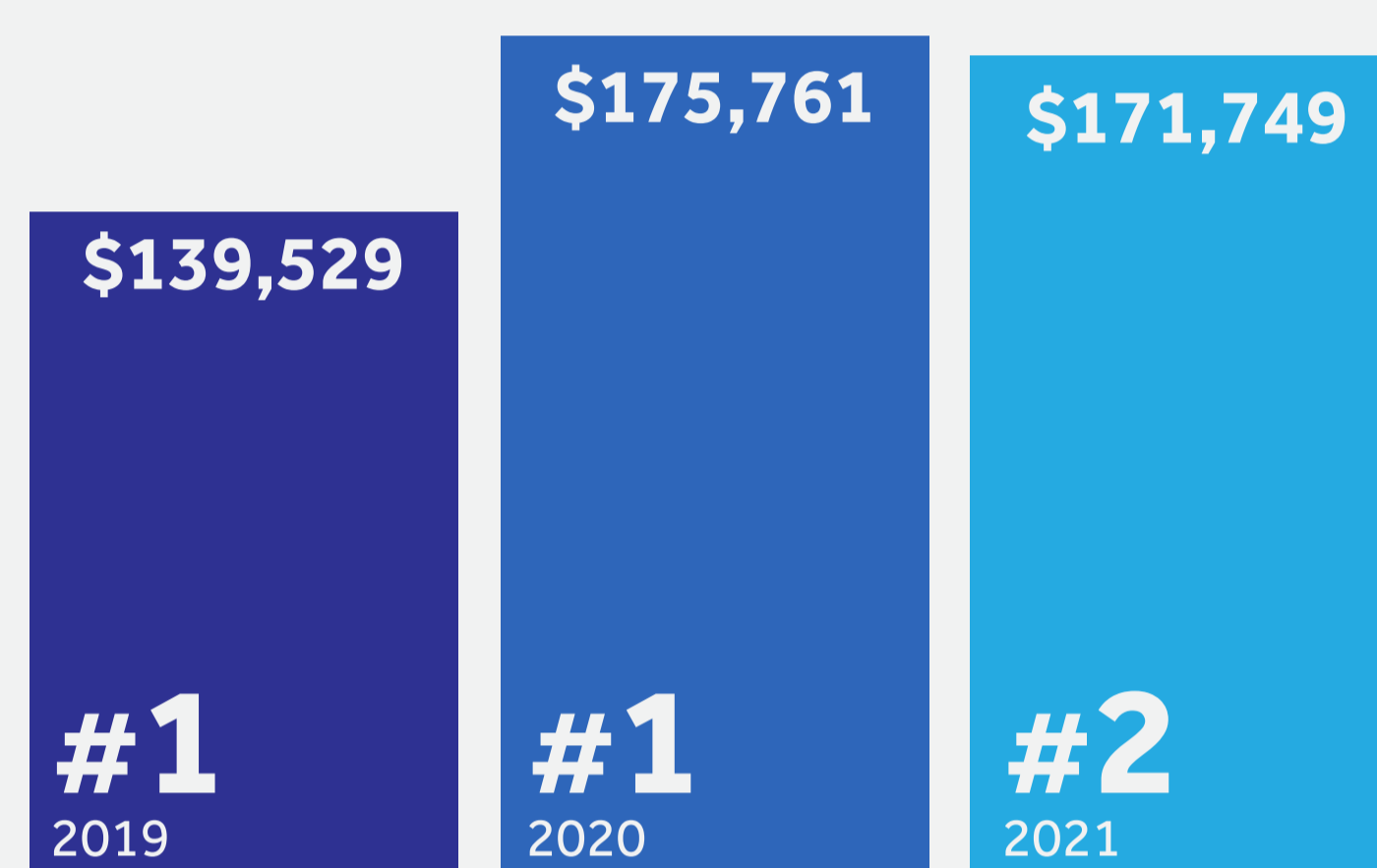
Cloud Native Architect

Market Value

The Professional Cloud Architect launched in 2017 and already has consistently placed at or near the top of the 15 top paying IT certifications over the past few years. In 2020, it placed:



North America
Rank and average salary by year.



Average salaries listed in (USD). Actual salaries vary by geography, industry, years of experience, and additional certifications. Source: Global Knowledge

Exam Topics

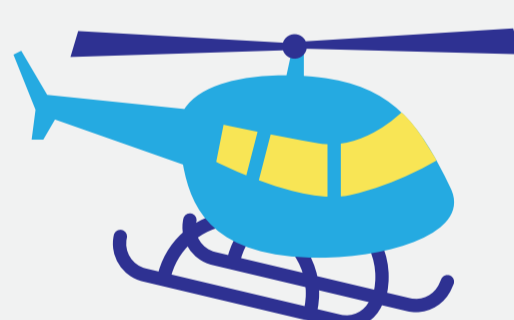
The Cloud Architect exam refers to multiple case studies, for which you should be able to plan a cloud solution architecture that:

- Understands existing technical environments
- Meets listed technical requirements
- Meets listed business requirements

Case Studies



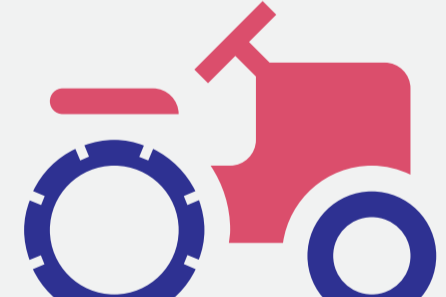
EHR Healthcare needs to scale their environment, adapt their disaster recovery plan, and roll out continuous deployment.



Help the **Helicopter Racing League** migrate existing services and expand use of managed AI and ML services to serve content in new regions.



Mountkirk Games plans to deploy Google Kubernetes Engine, scale rapidly, and set up regional game arenas using load balancers.



Tarram Earth is going to migrate their legacy systems to the cloud, where they'll need to configure data access and design storage resources.



Network Typologies
Hybrid networking, multi-cloud environments, and security protection

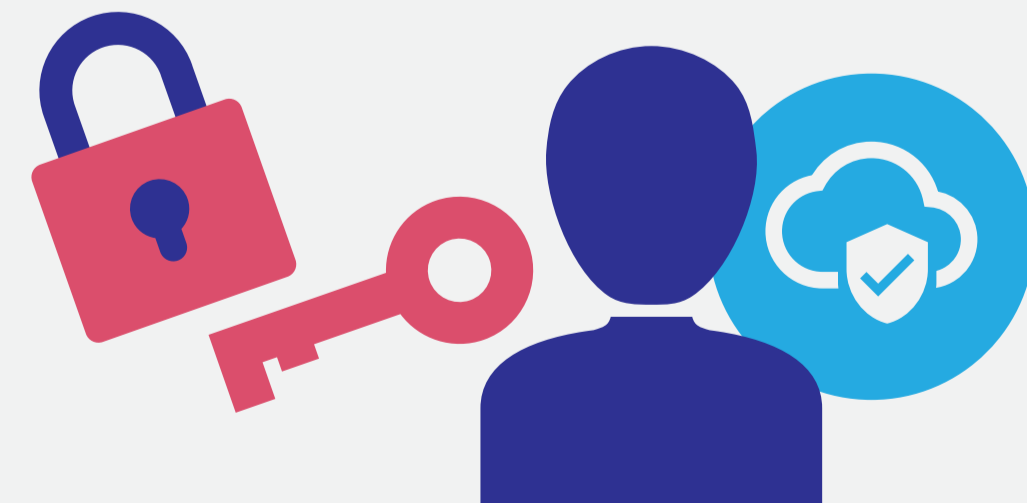
Managing, Provisioning, and Configuring

Storage Systems
Allocation, processing, access management, retention, and growth

Compute Systems
Resources, orchestration, patch management, volatility, and containers

Designing for Security and Compliance

- Identity and access management
- Resource hierarchies
- Data security keys and encryption
- Security controls and audits



Technical Processes
Troubleshooting, CI/CD, testing, and disaster recovery

Business Processes
Change management, customer success, and cost optimization

Reliability
Planning, chaos engineering, and penetration testing

Analyzing and Optimizing

Managing Implementation

- Application development
- API best practices
- Testing frameworks
- Management tooling



Study Resources

- Exam guide and practice questions
- Google Cloud documentation
- Coursera
- Pluralsight

Operations Reliability

- Monitoring
- Release management
- Deployment support
- Quality control