



# Oracle Cloud Infrastructure (OCI) 2019 Architect Professional (1Z0-997) Study Guide

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## Introduction

The Oracle Cloud Infrastructure (OCI) 2019 Architect Professional exam (1Z0-997) exam is designed for individuals who possess strong enterprise knowledge in architecting using Oracle Cloud Infrastructure services. This certification validates advanced concepts of OCI services to control infrastructure, such as but not limited to: High Availability and Disaster Recovery, Data Migration, Network Connectivity, Monitoring, Data Retention, Storage and Databases. This certification is available to all professionals that were previously passed the OCI Architect Associate Exam.

## Target Audience

A Solutions Architect Professional:

- Design a solution using architectural principles based on customer requirements.
- Has a strong understanding of cloud computing concepts
- Design and deploy, highly available, fault-tolerant, and reliable applications on OCI
- Translates on-premises operations to a typical cloud based infrastructure.
- Works with enterprise level architecture day to day

## Certification Details

- **Certification Name:** 1Z0-997 - Oracle Cloud Infrastructure 2019 Architect Professional
- **Target Audience:** Professionals responsible for architecting Oracle Cloud Infrastructure services
- **Platform:** Available on Oracle University and delivered via Pearson VUE
- **Exam Duration:** 105 minutes
- **Exam Cost:** \$245 (25% discount on this list price if you are OPN (Oracle Partner Network) and have the OPN number with you while registering for the exam)
- **Passing Score:** 70%

## Certification Benefits

- Stand out amongst world-wide cloud professionals by establishing industry capability in world-class technology!

- Validate your skills and knowledge on how to create infrastructure solutions using Oracle Cloud Infrastructure Services.
- Secure a digital badge for your social media profile to demonstrate your credibility in the industry.  
(<https://www.youracclaim.com/org/oracle/badge/oracle-cloud-infrastructure-2019-certified-architect-professional.1>)



## Exam Topics

This exam is revised regularly to align with training and service release updates. The following table lists the exam objectives, followed by concepts that may be tested in this section.

#	Objective	Concepts possibly tested in section
<b>1</b>	<b>Plan and design solutions in Oracle Cloud Infrastructure</b>	This section tests your ability to create basic and complex architectures using multiple services like IAM, Compute, Storage, Load Balancer, Kubernetes and Functions. Also concepts of DR and HA will be applied on this section
<b>1.1</b>	Plan and design solutions to meet business and technical requirements	
<b>1.2</b>	Create architecture patterns including N-tier applications, microservices, and serverless architectures	
<b>1.3</b>	Design scalable and elastic solutions for high availability and disaster recovery	
<b>2</b>	<b>Design, implement and operate databases in OCI</b>	This section will evaluate how to design architectures that include databases options like ADW, ATP and DB system on OCI
<b>2.1</b>	Evaluate and implement databases	
<b>2.2</b>	Operate and troubleshoot databases	
<b>3</b>	<b>Migrate on-premises workloads to OCI</b>	This section will cover migration strategies from on-premises to OCI. You need to be familiar with services like Storage Gateway, Data Transfer Appliance, Object Storage and Database migration using RMAN and data pump.
<b>3.1</b>	Design strategy for migrating on-premises workloads to OCI	
<b>3.2</b>	Implement and troubleshoot database migrations	
<b>4</b>	<b>Implement and operate solutions in OCI</b>	

<b>4.1</b>	Implement solutions to meet business and technical requirements	This section will evaluate your skills on how to choose the best set of services to deploy new applications on OCI using the core infrastructure services. Also, you need to understand how to troubleshoot the services on event of a problem.
<b>4.2</b>	Operate and troubleshoot solutions on OCI	
<b>5</b>	<b>Design for hybrid cloud architecture</b>	
<b>5.1</b>	Design and implement hybrid network architectures to meet high availability, bandwidth and latency requirements	You need to understand how to deploy applications using multi cloud environments using services like VCN and FastConnect
<b>5.2</b>	Evaluate multi-cloud solutions architectures	
<b>6</b>	<b>Design for Security and Compliance</b>	
<b>6.1</b>	Design, implement and operate solutions for security and governance	This topic will apply concepts used under the Governance and Administration section covering IAM, KMS, Policies and Quotas
<b>6.2</b>	Design, implement and operate solutions to meet compliance requirements	

## Exam Preparation

To successfully prepare for the 1Z0-997 – Oracle Cloud Infrastructure Architect Professional 2019 exam certification, it is recommended that you have a minimum of 2 years of hands-on or industry experience in architecting or implementing cloud infrastructures at enterprise level (preferably an Oracle Cloud Infrastructure (OCI) tenancy). If you are unable to obtain hands-on experience, it is strongly recommended that you get as much practice as possible in labs or test environments. We also highly recommend that you become familiar with the content covered below.

Oracle Cloud Infrastructure (OCI) training is frequently updated to reflect the OCI services. We recommend that you reference the latest documentation to ensure that you have the latest information about the services.

Here is the recommended learning path for an individual to successfully prepare for the OCI Architect Professional certification:

- I. Currently hold Oracle Cloud Infrastructure Architect Associate

- II. Take OCI Advanced Training to solidify your OCI knowledge, you can take the OCI advanced training (1-day virtual instructor led) or watch the recorded videos found on oracle.com – [OCI Level 200 – Advanced Training](#). Videos are listed below (Point 6) alongside individual topics.
- III. Review existing technical white papers available here:  
<https://docs.cloud.oracle.com/iaas/Content/General/Reference/aqswhitepapers.htm>
- IV. Review OCI Documentation:  
<https://docs.cloud.oracle.com/iaas/Content/home.htm>
- V. Review OCI blog posts  
<https://blogs.oracle.com/cloud-infrastructure/>
- VI. Review all YouTube playlists videos divided by topics:
  - (1) Plan and Design solutions in Oracle Cloud Infrastructure:
    1. [Billing and Cost Management](#)
    2. [Compute](#)
    3. [Storage](#)
    4. [High Availability and Disaster Recovery](#)
  - (2) Design, Implement and Operate Databases in OCI:
    1. [Database](#)
    2. [Autonomous Database](#)
  - (3) Migrate on-premises workloads to OCI:
    1. [Data Migration](#)
  - (4) Implement and Operate solutions in OCI:
    1. [Service Requests and SLAs](#)
    2. [Streaming Services](#)
    3. [Oracle Kubernetes Engine](#)
    4. [Oracle Registry Service](#)
    5. [Events](#)
    6. [Functions](#)
  - (5) Design for Hybrid cloud architecture:
    1. [Virtual Cloud Network](#)
    2. [Load Balancer](#)
    3. [Fast Connect](#)

4. [VPN Connect](#)
5. [DNS Traffic Management Steering Policies](#)
6. [DNS Zone Management](#)

(6) Design for Security and Compliance:

1. [Security Overview](#)
2. [Web Application Firewall](#)
3. [Identity and Access Management](#)
4. [Data Safe](#)

## Exam Registration Process

Ensure you have a login for Oracle exams delivered through Pearson VUE. To create a login, go to <http://www.pearsonvue.com/oracle>.

To register for the certification exam:

- Go to <http://www.pearsonvue.com/oracle>.
- Select **Sign In** under Oracle on top right.
- Use your Pearson VUE account to log in.
  - Do not create a new account if you cannot remember your old account information; use the Forgot my username or Forgot my password links to recover your information. Creating a new account can create logic issues resulting in certification information not being processed correctly.
- Select **Proctored Exam**.
- Type **1Z0-997: Oracle Cloud Infrastructure 2019 Architect Professional** and select **Go**.
- Select how you want to take the exam and follow the prompts

When you are ready to take your exam, please register with Pearson VUE (<http://www.pearsonvue.com/oracle>). Note that it can take multiple weeks to sit for an exam, so be certain that you register for the exam multiple weeks prior to when you plan to take the exam.

Additionally, you can also take the exam in the comfort of your own home. Please visit here (<http://www.pearsonvue.com/oracle/op>) for more information. Read through this site completely as there are many steps which need to be completed prior to the exam delivery. You will also need Adobe Air installed; you can get the latest version by clicking here (<https://get.adobe.com/air/>).

Additionally, some security software programs like Antivirus or Internet Security software can disrupt exam delivery and may need to be temporarily disabled.

Periodically, Oracle offers testing opportunities connected to some of our training events. These tests are delivered using a laptop that you bring. Please verify that the laptop you bring meets the requirements posted

here (<http://pearsonvue.com/oracle/ap/proctor.asp>), under **Verify System Requirements → System Requirements**).

## Exam Score

After you have taken your exam, you can view your results by visiting CertView:  
[https://brm-certview.oracle.com/pls/certview/ocp\\_interface.ocp\\_admin\\_report](https://brm-certview.oracle.com/pls/certview/ocp_interface.ocp_admin_report)

## Oracle Certification Program Candidate Agreement

In order to take your Oracle certification, you will need to agree to the Oracle Certification Program Candidate Agreement. Please review this document by going here:  
[http://education.oracle.com/education/pdf/ocp\\_candidate\\_agreement.pdf](http://education.oracle.com/education/pdf/ocp_candidate_agreement.pdf)

## Oracle Certification Program Guidelines

Learn more about Oracle Certification policies by going here:  
[https://education.oracle.com/pls/web\\_prod-plq-dad/db\\_pages.getpage?page\\_id=138](https://education.oracle.com/pls/web_prod-plq-dad/db_pages.getpage?page_id=138)

**PLEASE NOTE:** As Oracle Cloud Infrastructure content is continually being updated, the Oracle Cloud Infrastructure (OCI) 2019 Architect Professional exam (1Z0-997) is continually being updated as well. No announcement or communications are sent regarding the exam update and it is up to you, the exam candidate, to check the exam information page: [https://education.oracle.com/product/pexam\\_1Z0-997](https://education.oracle.com/product/pexam_1Z0-997)

**BE AWARE:** The use of any non-Oracle approved testing material, including copies of test questions (known as “brain-dumps” or “dumps”) are not allowed (see <https://blogs.oracle.com/certification/using-braindumps-is-cheating>) and can lead to the invalidation of your exam score. Please review the [Oracle Certification Candidate Agreement](#) for more information.

Please contact the OCI Enablement Team ([oci-enablement\\_us\\_grp@oracle.com](mailto:oci-enablement_us_grp@oracle.com)) with any questions.