



Cloud Infrastructure

# Oracle Cloud Infrastructure (OCI) Architect Associate exam (1Z0-932) Study Guide

Version 1.5

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## Introduction

The Oracle Cloud Infrastructure (OCI) Architect Associate exam is designed for individuals who possess a strong foundation knowledge in architecting infrastructure using Oracle Cloud Infrastructure services. This certification validates deep understanding of OCI services to spin up an infrastructure, such as: identity and access management, VCN, Compute, Storage and Databases. Up-to-date OCI training and hands-on experience are recommended. This certification is available to all professionals.

## Certification Details

- **Certification Name:** 1Z0-932 - Oracle Cloud Infrastructure 2018 Architect Associate
- **Target Audience:** Professionals responsible for designing infrastructure solutions using 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:** 65%

**PLEASE NOTE:** As Oracle Cloud Infrastructure content is continually being updated, the Oracle Cloud Infrastructure 2018 Architect Associate exam (1Z0-932) 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\\_1Z0-932](https://education.oracle.com/product/pexam_1Z0-932)) and study guide page ([https://learn.oracle.com/education/pdf/Oracle Cloud Infrastructure study guide .pdf](https://learn.oracle.com/education/pdf/Oracle%20Cloud%20Infrastructure%20study%20guide.pdf)) to ensure that you are preparing for the latest updates.

**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 Certification Program Manager, Greg Hyman ([greg.hyman@oracle.com](mailto:greg.hyman@oracle.com)) with any questions.

## 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 (<https://www.youracclaim.com/org/oracle/badge/oracle-cloud-infrastructure-2018-certified-architect-associate>) for your social media profile to demonstrate your credibility in the industry.



- Secure the certification for a pathway to higher average salary.

## Target Audience

A cloud architect:

- is responsible to architect cloud solutions
- has a strong understanding of cloud computing concepts
- knows all components of OCI
- builds a highly resilient infrastructure in cloud
- translates on-premises infrastructure to a typical cloud based infrastructure.

## Exam Preparation

To successfully prepare for the 1Z0-932 - Oracle Cloud Solutions Infrastructure 2018 Associate Architect certification, it is recommended that you have a minimum of 6 months of hands-on job or industry experience in architecting or implementing cloud infrastructures (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 Associate certification:

- I. Take OCI fundamentals training (1-day virtual instructor led or recorded videos on YouTube below) or equivalent hands on knowledge/ industry experience.
  - [OCI Level 100 – Getting Started](#)
  - [OCI Level 100 – Identity and Access Management](#)
  - [OCI Level 100 – Virtual Cloud Network](#)
  - [OCI Level 100 – Connectivity](#)
  - [OCI Level 100 – Compute](#)
  - [OCI Level 100 – Block Volume](#)
  - [OCI Level 100 – File Storage](#)
  - [OCI Level 100 – Object Storage](#)
  - [OCI Level 100 – Load Balancer](#)
  - [OCI Level 100 – Database](#)
  - [OCI Level 100 – Autonomous Database](#)
  - [OCI Level 100 – DNS](#)
- II. Currently, the following is not evaluated on the OCI Architect Associate exam:  
Services: Container Engine, Registry, Key Management, Data Transfer, Storage Gateway and Email Delivery  
DevOps tools: CHEF, Ansible  
Terraform and CLI
- III. Take the practice exam,  
(<http://oukc.oracle.com/static12/opn/login/?t=checkusercookies|r=-1|c=2164389233>)
- IV. Optional – to solidify your OCI knowledge, you can take the OCI advanced training (1-day virtual instructor led or recorded videos on YouTube below)
  - [OCI Level 200 – Identity and Access Management](#)
  - [OCI Level 200 – Virtual Cloud Network](#)
  - [OCI Level 200 – Connectivity IPsec VPN](#)
  - [OCI Level 200 – VCN Best Practices](#)
  - [OCI Level 200 – Connectivity FastConnect part 1](#)

- [OCI Level 200 – Connectivity FastConnect part 2](#)
- [OCI Level 200 – Compute](#)
- [OCI Level 200 – Storage](#)
- [OCI Level 200 – Load Balancer](#)
- [OCI Level 200 – Database](#)

Review existing white papers, blogs etc.

- White papers (<https://docs.us-phoenix-1.oraclecloud.com/Content/General/Reference/aqswhitepapers.htm>)
  - Best Practices for Deploying HA Architecture on OCI (<https://cloud.oracle.com/opc/iaas/whitepapers/best-practices-deploying-ha-architecture-oci.pdf>)
  - Dive deeper into OCI by reading OCI Security Best Practices: [https://docs.cloud.oracle.com/iaas/Content/Security/Reference/configuration\\_security.htm](https://docs.cloud.oracle.com/iaas/Content/Security/Reference/configuration_security.htm)
  - How EBS can be deployed on OCI: <https://cloud.oracle.com/iaas/whitepapers/ebs-deployment-on-oci.pdf>
  - Learn more about VCNs: <https://cloud.oracle.com/iaas/whitepapers/vcn-deployment-guide.pdf>
- Documentation (<https://docs.us-phoenix-1.oraclecloud.com/Content/GSG/Concepts/baremetalintro.htm>)
- Blogs (<https://blogs.oracle.com/cloud-infrastructure/>)

## 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, followed with the percentage of items for each objective (in the % column).

#	Objective	Concepts possibly tested in section	%
<b>1</b>	<b>Identity and Access Management (IAM)</b>		<b>10%</b>
1.1	Apply core Identity and Access Management components	Users, groups and policies, instance principals and dynamic groups	
1.2	Explain resource locations	IAM resource component	
1.3	Design federation with various identity providers	ADFS, IDCS, SAML	
1.4	Apply IAM, governance, and security best practices	Audit, encryption	
<b>2</b>	<b>Networking</b>		<b>30%</b>
2.1	Apply design concepts related to VCN components	Including subnets, route tables, security lists, and DNS options	
2.2	Describe Public and Private IP addresses and virtual NICs	Reserved Public and Private IP	
2.3	Apply VCN connectivity options	Internet gateway, remote peering connections, and local peering gateways, NAT and service gateway,	
2.4	Understand remote network connectivity	VPN and FastConnect using Dynamic Routing Gateway (DRG), connecting to on-premises environments	
2.5	Apply OCI Load Balancer concepts	Listeners, backend sets, health checks, public and private load balancers, high availability design practices	
2.6	Understand OCI Edge services	DNS service and internet intelligence	
2.7	Apply OCI networking best practices	Load balancing, VCN peering, VPN, FastConnect, fault tolerance	
<b>3</b>	<b>Compute</b>		<b>15%</b>

<b>3.1</b>	Understand compute and sizing	Best practices, available OCI shapes, network bandwidth, SLA, NVMe, performance	
<b>3.2</b>	Troubleshoot options using console connections and boot volume	Console connection options and boot volume management	
<b>3.3</b>	Architect High Availability and Disaster Recovery solutions	Fault domain, availability domains, cross regions	
<b>3.4</b>	Describe image options	Oracle provided, customer provided, custom images, BYOI	
<b>4</b>	<b>Storage</b>		<b>20%</b>
<b>4.1</b>	Understand OCI Storage options	Storage best practices, storage performance metrics, block volumes, object storage, file storage service.	
<b>4.2</b>	Designing storage solutions for applications and database	Based on use case, performance, scalability	
<b>5</b>	<b>Database</b>		<b>25%</b>
<b>5.1</b>	Describe OCI Database options	Best practices, sizing, Autonomous Transaction Processing (ATP), Database Systems, Autonomous Data Warehouse (ADW)	
<b>5.2</b>	Explain OCI Database Operations	Backup/restore, patching and Migration, Data Loading for ATP and ADW	
<b>5.3</b>	Architect HA and DR solutions	RAC, Data Guard	
<b>5.4</b>	Managing Autonomous Database	ATP, ADW	

## Exam Registration Process

**Oracle employees**, please click here

(<https://my.oracle.com/site/cloudsol/public/laaS/Download/index.html?pDocName=cnt2747616>)

for instructions on exam registration.

Make certain that 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 **1Z0-932: Oracle Cloud Infrastructure 2018 Architect Associate** 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)).