

Scaleway Associate: Kubernetes

Exam Guide

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Welcome!

A vibrant expert community is one of our industry's greatest assets. When experts join forces, they drive impactful innovation. When they set an example, our collective capacity for leadership grows.

As Europe's empowering cloud provider, Scaleway proudly champions continuous learning and development. Our training and certification program invites you to **prove your skills and earn professional credentials**, whether you're an established expert or on your journey to becoming one.

If you're an engineer or administrator, we recommend [registering for the Scaleway Associate: Kubernetes certification path](#), where you will:

- Deploy and operate Kubernetes clusters on the **Scaleway ecosystem**.
- Learn how to manage Scaleway Kubernetes and its additional services.
- Demonstrate your ability to put into practice different architectures with the help of three hands-on use cases.

We look forward to having you join us for an upcoming certification session!

Kindly,

The Scaleway Learning team
Your expertise, certified.
contact.certifications@scaleway.com

What is the Scaleway Associate: Kubernetes exam?

The Scaleway Kubernetes exam tests broad knowledge of Scaleway's Kubernetes Managed Services. Successful candidates are able to confidently orchestrate Kubernetes deployments for their cloud infrastructure with Scaleway.

Target candidates

The **Scaleway Associate: Kubernetes** exam is ideal for engineers, architects, and administrators with at least 2 years of industry experience and a basic understanding of Kubernetes.

Skills certified

The Scaleway Kubernetes Exam verifies the candidate's ability to perform the following actions or understand the following concepts:

Part 1 - Introduction	
0	From Containers to Kubernetes: A Fast Track Review
A	Understand the evolution from traditional to containerized deployment for efficient resource use and isolation
B	Define what containers are and explain their benefits, like portability, isolation, fast startup, and scalability
C	Describe Docker as a tool for building and managing containers
D	Explain Kubernetes as a container orchestration platform that automates the deployment, scaling, and management of containerized applications
E	Appreciate the benefits of Kubernetes for handling large-scale, resilient cloud-native deployments
1	Kubernetes: Architecture & Features

A	Describe Kubernetes as an open-source platform managing containerized applications
B	Identify Kubernetes Key Features: extensibility, scaling, self-healing, automated rollouts/rollbacks, service discovery, secret management, and storage orchestration
C	Explain Kubernetes Architecture components
D	Use kubectl to deploy, manage, inspect, and troubleshoot Kubernetes resources
E	Understand the Benefits of using Kubernetes Managed Services from Scaleway, like resource & cost optimization, cloud-agnostic deployment, high availability, and an integrated ecosystem
2	Scaleway Kubernetes Offers
A	Explain the Key Features of Scaleway Kubernetes Kapsule and Kosmos Managed Services
B	List Kapsule and Kosmos Key Benefits and main Use Cases
C	Understand how to use Kosmos for multi-cloud Kubernetes Deployments across various cloud providers
D	Differentiate between the Mutualized Control Plane and Dedicated Control Plane offers
E	Understand Key Features of NVIDIA GPU Instances and their integration with Scaleway Managed Kubernetes
F	Identify the Kubernetes Solution Offer and the associated Additional Services Pricing models
Part 2 - Kubernetes Associate	
3	Deploying an Application with Kubernetes Kapsule
A	Understand what Deployments and Services in Kubernetes are and how they work together
B	Explain the usage of DaemonSets and ReplicaSets
C	Identify the different methods to expose a Cluster to the Internet and understand the appropriate use cases for each method
D	Explain the usage of ConfigMaps and Secrets
E	Deploy a complete Kubernetes workflow on Scaleway:

	• Create an auto scaling cluster, • Deploy applications with NGINX Ingress for external access, • Implement Horizontal Pod Autoscaling, • Validate the system through load testing and real-time monitoring before cleanup.
4	Kubernetes & Storage Fundamentals
A	Differentiate between Stateful and Stateless Applications
B	Explain why Stateful Applications require Persistent Storage, and how they are managed via StatefulSets and Persistent Volumes
C	Differentiate between System Volumes and Persistent Volumes
D	Describe what Block Storage is and how it is used in Kubernetes
E	Use Container Storage Interface (CSI) and StorageClasses for automated, flexible storage provisioning
F	Understand how to use Snapshots with Kubernetes
5	Kubernetes & Network
A	Describe the types of Cluster Service Networking (ClusterIP, NodePort, LoadBalancer)
B	Understand how DNS Resolution works within Kubernetes
C	Describe the different methods to expose a Cluster to the Internet and understand the appropriate use cases for each method
D	Configure and manage Scaleway Load Balancers with Kubernetes Kapsule and Kosmos (Public and Private Load Balancer)
E	Deploy and manage Ingress Controller services like NGINX and Traefik to handle external HTTP/HTTPS traffic and SSL termination
F	Understand how Virtual Private Cloud (VPC), Private Networks and Network Segmentation in Kubernetes enhance security and performance
6	Going Further: Monitoring & Security
A	Monitor Clusters using Scaleway's Cockpit
B	Enable and analyze Audit Logs via Cockpit
C	Understand the multi-layered Kubernetes Security approach across Infrastructure, Cluster and Application

D	Enhance Security Practices with Namespace Isolation, Role-Based Access Control, and Secrets
E	List Security Essential Best Practices when deploying a Kubernetes Service
Part 3 - Use Cases	
7	Use Case - Kubernetes & Regional Private Networks
A	Securely isolate resources with a Private Network
B	Enable autoscaling for cost-efficient resource management
C	Connect Kubernetes Clusters to Regional Private Networks for secure, low-latency communication
8	Use Case - Deploying an E-Commerce Application on Kapsule
A	Deploy a containerized application on Kubernetes Kapsule with secure, scalable settings
B	Manage credentials with Secrets and set up HTTPS using TLS
C	Attach Persistent Storage with PVC for application data
D	Route traffic with NGINX Ingress and automated SSL certificate provisioning
9	Use Case - Deploying a web application with Kapsules using a fully isolated pool, Public Gateway and Terraform
A	Isolate cluster communication in a Private Network
B	Enable autoscaling for traffic spikes
C	Control external access via Public Gateway
D	Deploy across multiple Availability Zones for resilience
Part 4 - Certification exam	

Exam experience

The exam lasts up to **1 hour** and includes **50 questions**.

For each question on the exam, the candidate selects the best response(s) and eliminates distractors. Distractors are incorrect answers that may seem plausible to candidates who lack sufficient expertise.

The exam's instructions specify the number of expected responses for the question type:

- **Multiple-choice questions** have one correct response.
- **True or false questions** have one correct response.
- **Multiple-response questions** have two or more correct responses.
- **Matching questions** require all options to be correctly matched.
- **Fill-in-the-blank questions** require the candidate to move words from a word bank to their correct positions within a sentence.

Score calculation

The Scaleway Associate: Kubernetes exam is a pass-or-fail exam. Scaleway scores the exam against a minimum standard that follows industry best practices and guidelines.

Your score is reported on a scale of 1-100. **The minimum passing score is 70.** Unanswered questions are scored as incorrect.

Certification

Candidates who pass the exam receive a badge and a certificate that remain valid for 24 months.

Sharing your Scaleway credentials with your network helps you **bolster your professional portfolio**. Scaleway provides support to help successful candidates extract maximum potential from newly acquired credentials.

FAQ

How do I register for a Scaleway Learning exam?

You can use our [registration form](#) to register for one or several exams.

How much does a Scaleway Learning exam cost?

300 euros excluding VAT and 360 euros with VAT.

I registered for an exam. What happens next?

We'll send you a purchase order to sign and return to us. Once we receive your signed purchase order, we'll open your session on our e-learning platform. You'll receive an email with a link to join the platform.

When will I be billed for the exam?

We'll email you an invoice once we receive your signed purchase order.

Can you tell me more about your e-learning platform?

Scaleway partners with [360Learning](#), an online learning platform you can access at your own pace. The platform provides everything you need to prepare for and take the exam.

Will my 360Learning account stay open indefinitely?

No. Your 360Learning account will be automatically deleted after a defined period, which varies according to your contract type (1 month, 3 months, or 6 months).

How long will it take to prepare for the exam?

This depends on your experience with the cloud and Scaleway before you start.

- Experienced cloud professionals spend 1 to 2 hours studying.
- Candidates with some cloud expertise spend 5 or 6 hours on average.
- Candidates with limited cloud expertise may spend up to 10 hours.

Can I learn at night or over the weekend?

You can access our online learning platform anytime. To request support, please contact us during our regular working hours, Monday-Friday, 9:30 am to 5 pm CET.

Can I take notes while learning?

Absolutely! We encourage you to take notes. You can use them during the exam.

Can I look at the slides or search the Internet during the exam?

No. We're counting on your honesty and integrity!

Where will I take the exam?

You'll take the exam on the [360Learning](#) e-learning platform.

How long does the exam last?

You'll have up to 1 hour to answer the 50 questions on the exam.

When will I take the exam?

Your exam session will remain open for three months. For example, a session beginning February 6th will end on May 6th, and a session starting July 30th will end on October 31st.

Can I take the exam outside regular working hours (early morning or evening)?

Since we want to support you during the exam, we recommend taking it during our regular working hours (Monday-Friday, 9:30 am to 5 pm CET). However, you may take the exam anytime.

Can I bypass my study time and go directly to the exam?

Theoretically yes, but we recommend weighing the risks and benefits. If you've been with us since the dawn of Dedibox, and you've used every one of our products since then, you'll probably pass the exam even if you don't study. Generally, we recommend at least skimming the slides and reviewing any new information. Moreover, this certification includes three practical use cases on which you will be formally assessed. We recommend that you test and deploy these autonomously.

What should I do if the e-learning platform is unavailable or a bug occurs?

In the event of technical issues, we request that you provide a screenshot or recording and a description of the problem to our support team. The fastest way to reach us is at contact.certifications@scaleway.com or in the [#learning](#) channel of the Scaleway Community Slack.

Can I start the exam, then press pause and return to it later?

Closing the exam window pauses the exam. You can return to the exam and click **Resume** to continue where you left off. Resuming does not reset the countdown timer.

Do Scaleway badges and certificates expire?

Yes. Scaleway badges and certificates are valid for two years. We offer fast-track options to renew your qualifications once they expire.

Is Scaleway Learning content protected by copyright?

Yes, our resources are protected by copyright, and making copies and/or sharing them is forbidden.

I'm based outside of France. Will Scaleway charge me VAT for the exam?

No, reverse invoices are available for participants outside of France.

How much is VAT?

French VAT is 20% for services. The exam falls into this category.

I have a question that isn't answered in the FAQ. What should I do?

Send your question to contact.certifications@scaleway.com, or join us in the [#learning](#) channel of the Scaleway Community Slack.