

Istruction

# IaaS GreenCloud - Data portability

**I SEC 70**  
**REV. 01 - 18/11/2025**

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<b>Preparation</b>		<b>Check</b>	<b>Acceptance</b>
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## OPIQUAD SPA A SOCIO UNICO

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### OPIQUAD SPA A SOCIO UNICO

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### **1. Purpose and field of application**

The purpose of the instruction is to describe and share the information necessary to import data (virtual machine images) into the Opiquad cloud environment, or export data (virtual machine images) from the same environment.

The instruction also describes the action to export data present in Kubernetes containers, and import Kubernetes data or environments into the same environment.

### **2. Update**

The instruction will be updated following a change in data export or import management.

### **3. Obligation and responsibilities**

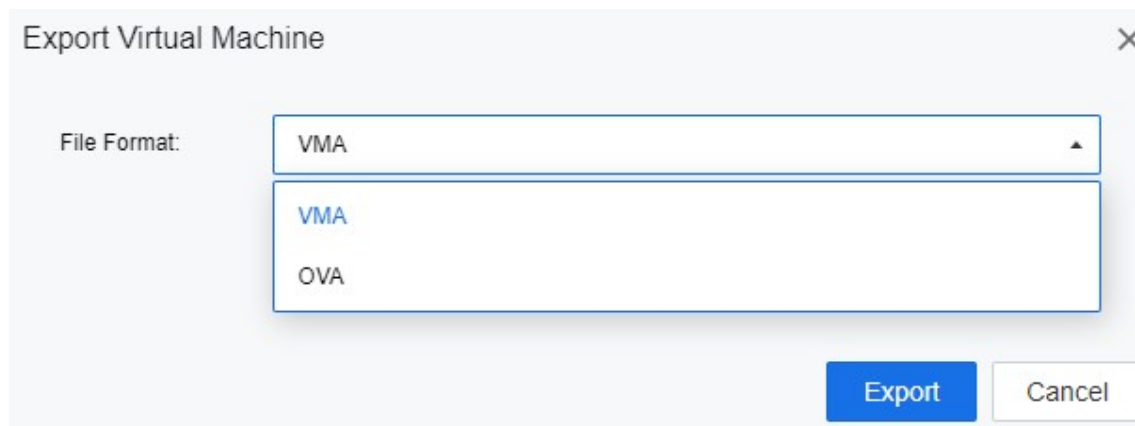
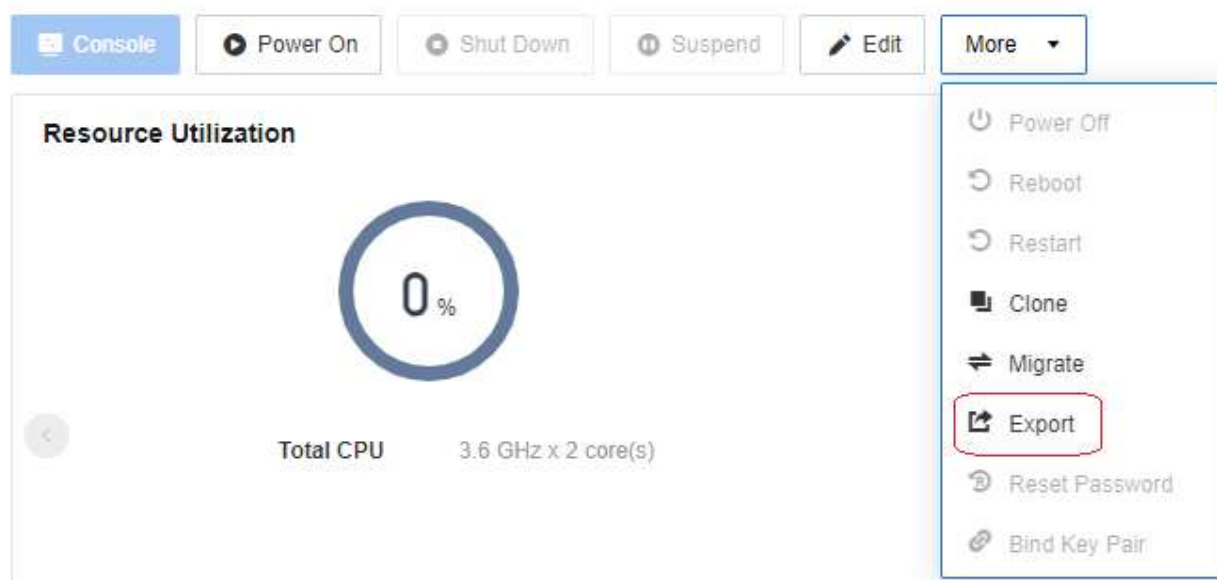
The coordinator of the Information Security Management System is responsible for coordinating and verifying the release of the documentation necessary for the implementation of all the processes envisaged by the management system.

#### 4. Instruction description

##### Sangfor import and export brief

In case of data export, customer selects "Export" function from own virtual management resource, It will be possibile to select the file format: VMA or OVA. If customer needs any other format, should contact Opiquad CSI support (email: support-csi@opiquad.it).

#### Summary



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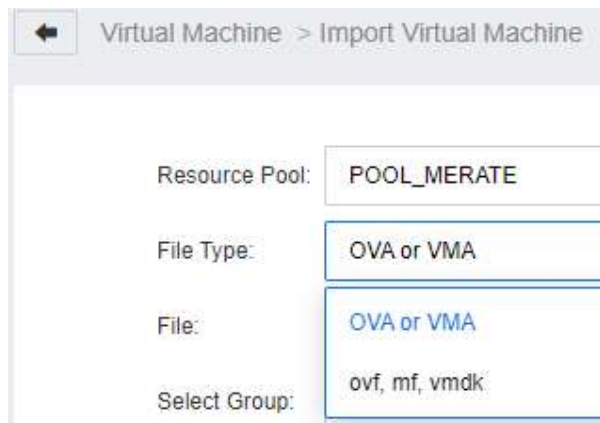
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In case of data import, customer will select the file type, and the image of the virtual machine will be exported.



The screenshot shows the 'Import Virtual Machine' form in the Proxmox VE web interface. The breadcrumb navigation at the top reads 'Virtual Machine > Import Virtual Machine'. The form contains the following fields:

- Resource Pool:** POOL\_MERATE
- File Type:** OVA or VMA
- File:** OVA or VMA
- Select Group:** ovf, mf, vmdk

### Proxmox import and export brief

The customer who logs into own IaaS environment, could import virtual machine data with this command:

```
$ scp file-import.ova root@proxmox_name_server:/root/
```

```
$ qm importovf <vm-id> <ovf-file> <storage-name>
```

<vmid>: The ID you want to assign to the new VM.

<ovf-file>: The name of the .ovf file (e.g., my-vm.ovf).

<storage-target>: The Proxmox storage location to save the disk image.

Export virtual machine data with these steps.

(1) Create a backup: Log in to the Proxmox VE web UI, select the VM, go to Backup, and click Backup now.

Locate the backup file: After the backup completes, go to the Shell for the Proxmox node and navigate to the directory where the backup was stored (e.g., /mnt/backup\_share/dump/).

(2) The file will have a .vma extension. Extract the disk image: Use the vma extract command to extract the raw disk image from the .vma file.

```
$ vma extract -v <vzdump-filename.vma> <destination-directory>
```

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(3) Convert to OVA: You will need to convert the extracted disk image to a format compatible with other hypervisors and then create an OVA.

A third-party tool like PVE2OVA(\*) can be used to automate this process.

(\*) <https://forum.proxmox.com/threads/tool-pve2ova-export-ova-with-thin-provision-disk-from-a-pve-node.167198/>

## Kubernetes import and export brief

The customer using the Kubernetes container, should follow these steps to import and export data to/from.

Copy files and directories to and from containers. Important note: it requires that the 'tar' binary is present in your container image. If 'tar' is not present, 'kubectl cp' will fail.

Copy /tmp/foo\_dir local directory to /tmp/bar\_dir in a remote pod in the default namespace  
\$ kubectl cp /tmp/foo\_dir <some-pod>:/tmp/bar\_dir

Copy /tmp/foo local file to /tmp/bar in a remote pod in a specific container  
\$ kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>

Copy /tmp/foo local file to /tmp/bar in a remote pod in namespace <some-namespace>  
\$ kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar

Copy /tmp/foo from a remote pod to /tmp/bar locally  
\$ kubectl cp <some-namespace>/<some-pod>:/tmp/foo /tmp/bar

Options:

-c, --container="": Container name. If omitted, the first container in the pod will be chosen

Usage:

\$ kubectl cp <file-spec-src> <file-spec-dest> [options]

Use "kubectl options" for a list of global command-line options (applies to all commands).