



[Knowledgebase](#) > [mCloud](#) > [How to Create a VM Instance from Volume in mCloud](#)

# How to Create a VM Instance from Volume in mCloud

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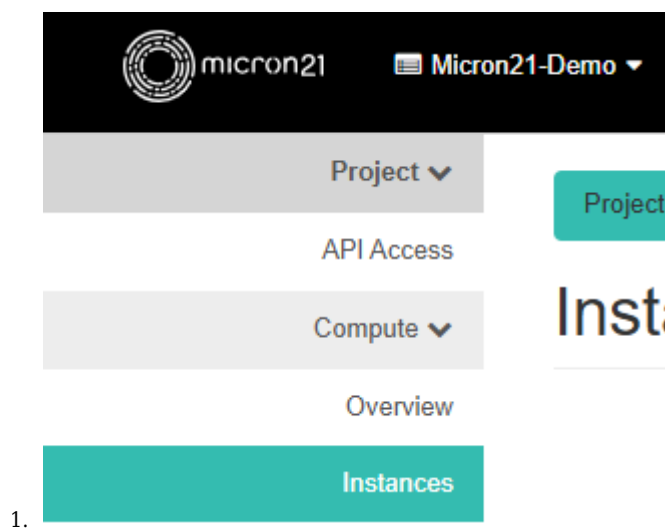
This guide details the steps for creating a new VM instance using a Volume in your mCloud Dashboard.

## Prerequisites

Before you create a new VM want to ensure that you have an SSH Key-Pair available to add to the VM this will help in gaining access to the new VM. Without an SSH Key-Pair connections will be difficult. ***For more information on how this can be done please see our guide here***

## Method

1. Log into mCloud at <https://mcloud.micron21.com/>
2. Navigate to Project > Compute > Instances



3. Click "Launch Instance"



4. Enter your preferred Instance Name, then select the appropriate Availability Zone, this will be Kilsyth in most cases, then Click Next

Launch Instance

Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.

**Project Name**

**Instance Name**

**Description**

**Availability Zone**

**Count**

Total Instances (100 Max)

1%

0 Current Usage  
1 Added  
99 Remaining

Cancel

< Back

Next >

Launch Instance

1.

5. Set boot source to Volume.

6. Set the “volume to be deleted with the instance” option (we recommend setting this to "No").

7. Scroll down and select which existing volume you wish you use. Then Click Next

Launch Instance

Details

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Metadata

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

**Select Boot Source**

**Delete Volume on Instance Delete**

Yes

No

**Allocated**

Displaying 1 item

Name	Description	Size	Type	Availability Zone
> 900f6d5a-ec2c-4292-9ae3-7d7ba64042a1	-	25 GB	QCOW2	Kilsyth

Displaying 1 item

**Available** 0

Select one

Displaying 0 items

Name	Description	Size	Type	Availability Zone
No items to display.				

Displaying 0 items

Cancel

< Back

Next >

Launch Instance

1.

8. On the Flavor page, you can select the VM’s Resource Limits. Click the Up-Arrow next to the desired Flavor to allocate the resources to the VM. Then Click Next

Launch Instance

Details

Source

**Flavor**

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Metadata

Flavors manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Displaying 1 item

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
> DiskTest	2	4 GB	0 GB	0 GB	0 GB	Yes

Displaying 1 item

▼ Available **2**

Select one

Q Click here for filters or full text search.

Displaying 2 items

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
> perf-test	4	4 GB	0 GB	0 GB	0 GB	Yes
> perf-test-bigger	10	10 GB	0 GB	0 GB	0 GB	Yes

Displaying 2 items

1.

9. Select the network/s you would like associated with the Instance (Public, VLAN etc.) Then click Next

Launch Instance

Details

Source

Flavor

**Networks**

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Networks provide the communication channels for instances in the cloud. You can select ports instead of networks or a mix of both.

▼ Allocated **1**

Displaying 1 item

Network	Subnets Associated	Shared	Admin State	Status
> public	1b1aa3a1-7fb8-4e00-b73c-d448b5682ac9 c859931d-f6e9-429e-b45b-530efece4aa0	Yes	Up	Active

Displaying 1 item

▼ Available **0**

Select one or more

Q Click here for filters or full text search.

Displaying 0 items

Network	Subnets Associated	Shared	Admin State	Status
No items to display.				

Displaying 0 items

1.

10. On the Network Ports page you can configure specific Network ports as required, if you do not have any specific port requirements, you can click Next to proceed without making any changes

11. On the Security Groups page, select all applicable groups required, then click Next (in most cases this can be left blank)

12. Select which key pair you wish to use to connect to the default user and click Next.

1. **Important:** If you do not have an SSH Key Pair configured we recommend that you set one at this stage. Without an SSH Key, connecting to the VM will prove difficult. For details on how you can do so, **[please follow the guide here](#)**

Launch Instance

**Details**

A key pair allows you to SSH into your newly created instance. You may select an existing key pair, import a key pair, or generate a new key pair.

[+ Create Key Pair](#) [Import Key Pair](#)

**Allocated**

Displaying 1 item

Name	Type	Fingerprint
Test	ssh	04:ec:c0:95:72:7e:81:3d:95:49:aa:27:94:74:f8:60

Displaying 1 item

**Available 0**

Select one

Click here for filters or full text search.

Displaying 0 items

Name	Type	Fingerprint
No items to display.		

Displaying 0 items

1. [Cancel](#) [Back](#) [Next >](#) [Launch Instance](#)

13. If you have any cloud-init configuration you wish to add you can do so here and click Next.

- You can find more information on cloud-init configuration here:  
<https://cloudinit.readthedocs.io/en/latest/>

Launch Instance

**Details**

You can customize your instance after it has launched using the options available here. "Customization Script" is analogous to "User Data" in other systems.

**Load Customization Script from a file**

[Choose File](#) No file chosen

**Customization Script (Modified)** Content size: 96 bytes of 16.00 KB

```
#cloud-config
# from 1 files
# part-001
---
package_upgrade: true
packages:
- wget
- jq
```

**Disk Partition**

Automatic

☐ Configuration Drive

2. [Cancel](#) [Back](#) [Next >](#) [Launch Instance](#)

14. Click Launch Instance, and wait for the deployment to complete and the new instance will be available in the Cloud Dashboard via Project > Compute > Instances

- This should take around 1 minute, depending on the size of the image.

## Video Guide

Sorry, video playback isn't supported by your browser.

