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How to create a VM instance from an image in mCloud

Vincent (Vinnie) Curle - 2026-06-16 - [mCloud](#)

Overview

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

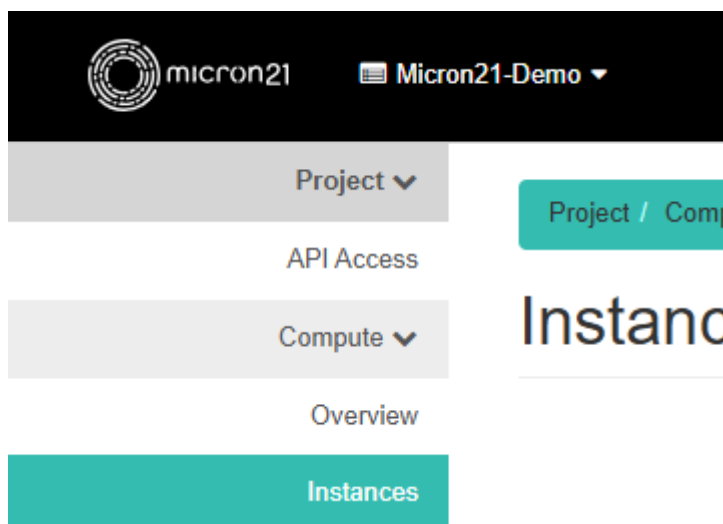
Prerequisites

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.

Method

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

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



3. Click "Launch Instance"



4. Enter an Instance Name, and select the appropriate Availability Zone. Usually, this will be "Kilsyth". Then click "Next". If you wish to add multiple VMs with the exact same configuration, you can increase the "count" on this page.

Launch Instance ✕

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. ?

Details

Source *

Flavor *

Networks

Network Ports

Security Groups

Key Pair

Configuration

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Scheduler Hints

Metadata

Project Name

Instance Name *

Description

Availability Zone

Count *

Total Instances
(100 Max)

2%

■ 1 Current Usage
■ 1 Added
■ 98 Remaining

✕ Cancel
< Back
Next >
Launch Instance

5. On the source Page, set the following options as required

1. Set the boot source to 'image',
2. Select "Yes" for Create New Volume',
3. Under 'Volume Size (GB)' set the size for the VM.
4. Scroll down to 'Unallocated' and determine which Image file you'd like allocated to the domain, click the Up-Arrow to assign the image to 'Allocated'

Launch Instance ✕

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. ?

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Select Boot Source

Volume Size (GB) *

Allocated

Displaying 1 item

Name	Updated	Size	Format	Visibility	
▶ Linux-Alma-9.4	11/1/24 1:39 AM	574.69 MB	QCOW2	Public	⬇

Displaying 1 item

Create New Volume

Yes No

Delete Volume on Instance Delete

Yes No

6. Scroll to the bottom of the Source Page and Click Next to continue.

7. 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 ✕

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

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Metadata

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

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

✕ Cancel < Back Next > Launch Instance

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

Launch Instance ✕

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

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Allocated 1

Displaying 1 item

Network	Subnets Associated	Shared	Admin State	Status	
> public	1b1aa3a1-7fb8-4e00-b73c-d448b5682ac9 c859931d-f6e9-429e-b45b-530efec84aa0	Yes	Up	Active	↓

Displaying 1 item

Available 0 Select one or more

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

✕ Cancel < Back Next > Launch Instance

9. 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 change

Launch Instance ✕

Details

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Ports provide extra communication channels to your instances. You can select ports instead of networks or a mix of both. ?

▼ Allocated 0

Displaying 0 items

Name	IP	Admin State	Status
<i>Select one or more ports from the available ports below.</i>			

Displaying 0 items

▼ Available 0 Select one or more

Displaying 0 items

Name	IP	Admin State	Status
<i>No items to display.</i>			

Displaying 0 items

✕ Cancel
< Back
Next >
Launch Instance

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

Launch Instance ✕

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Select the security groups to launch the instance in. ?

▼ Allocated 1

Displaying 1 item

Name	Description
> default	Default security group

Displaying 1 item

▼ Available 0 Select one or more

Displaying 0 items

Name	Description
<i>No items to display.</i>	

Displaying 0 items

✕ Cancel
< Back
Next >
Launch Instance

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

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.

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.

Source

Flavor 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

✕

Displaying 0 items

Name	Type	Fingerprint
No items to display.		

Displaying 0 items

12. 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.

Source Load Customization Script from a file

No file chosen

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

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

Configuration

Server Groups

Configuration Drive

1. A configuration drive is a small virtual disk attached to the instance at boot, containing configuration data such as SSH keys and userdata. If you don't have a DHCP agent on a private network, this can be used as an alternative to the network-based metadata service.

13. 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.