



Linux Academy  
Live! Lab

# Managing Flavors and Quotas

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## Lab Connection Information

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- Labs may take up to five minutes to build
- Access to the Horizon Dashboard is provided on the Live! Lab page, along with your login credentials
- SSH information is provided on the Live! Lab page
- Labs will automatically end once the allotted amount of time finishes

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*... and you can  
always send in a  
support ticket on  
our website to talk  
to an instructor!*

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# Introduction

In this lab, we learn how to create a *flavor*, or default instance type, which our users can bring up. We also look at default project quotas, and how to change them.

From the **Horizon Dashboard**, linked on the Live! Lab page, log in as the *admin* user with the given credentials.

## Create and Edit Flavors

The screenshot shows the OpenStack Horizon dashboard. In the left sidebar, the 'System' menu is expanded, and 'Flavors' is highlighted. The main panel displays the 'Flavors' page with a table of existing flavors. The table has columns: Flavor Name, VCPUs, RAM, Root Disk, Ephemeral Disk, Swap Disk, ID, Public, Metadata, and Actions. There are five flavors listed: m1.tiny, m1.small, m1.medium, m1.large, and m1.xlarge. A '+ Create Flavor' button is located at the top right of the table.

Flavor Name	VCPUs	RAM	Root Disk	Ephemeral Disk	Swap Disk	ID	Public	Metadata	Actions
m1.tiny	1	512MB	1GB	0GB	0MB	1	Yes	No	Edit Flavor
m1.small	1	2GB	20GB	0GB	0MB	2	Yes	No	Edit Flavor
m1.medium	2	4GB	40GB	0GB	0MB	3	Yes	No	Edit Flavor
m1.large	4	8GB	80GB	0GB	0MB	4	Yes	No	Edit Flavor
m1.xlarge	8	16GB	160GB	0GB	0MB	5	Yes	No	Edit Flavor

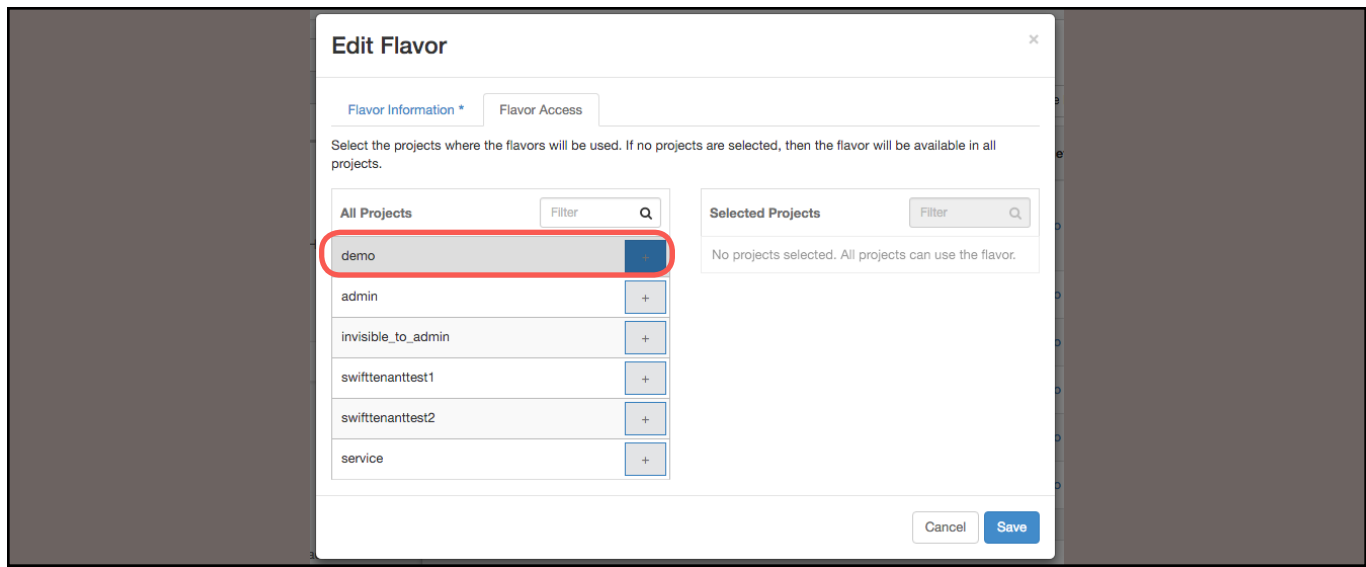
From the dashboard, underneath **System**, select **Flavors**. Here you can see the default flavors available to use.

We are creating a flavor, *m1.xtiny*, for *extra tiny*. It should contain half the memory of the *m1.tiny*: 256MB with 1 CPU core.

The screenshot shows the 'Create Flavor' dialog box. The 'Flavor Information' tab is selected. The form contains the following fields: Name (m1.xtiny), ID (auto), VCPUs (1), RAM (MB) (256), Root Disk (GB) (1), Ephemeral Disk (GB) (0), and Swap Disk (MB) (0). There is a 'Create Flavor' button at the bottom right.

Press the **Create Flavor** button. We gave ours a **Name** of *m1.xtiny*, set **VCPUs** to *1*, **RAM (MB)** to *256*,

and **Root Disk** to **1**. Click **Create Flavor**.



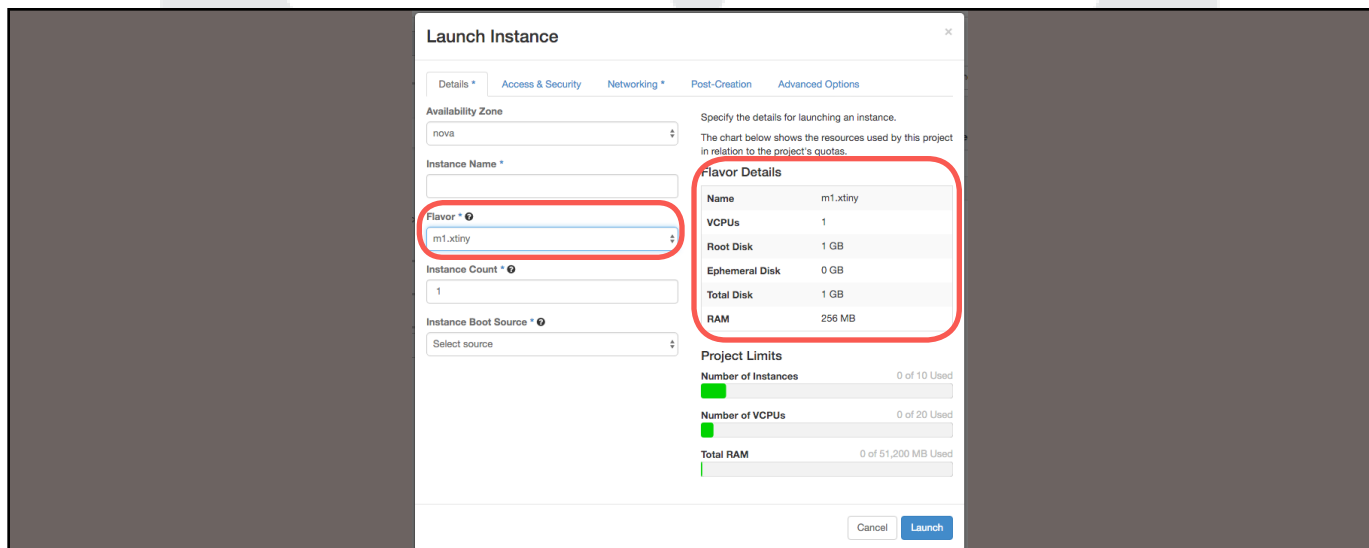
Select **Edit Flavor** for your new flavor. From the **Flavor Access** tab, you can view the tenants who have access to the flavor. We want the **demo** user, for which we have access, to be able to use our new flavor. Select the **+** button to the right of the username to give the **demo** user access. **Save**.

Suppose we want to add an ephemeral disk to our **m1.small** flavor. Select **Edit Flavor**, then navigate to the **Flavor Information** tab. Change **Ephemeral Disk (GB)** to **1**. **Save**.

## Verify the New Flavor

Sign out as **admin** to verify the **demo** tenant has access. Log in to the **demo** user using the details provided on the Live! Lab page.

Go to your **Instances** page, under **Compute**. Select **Launch Instance**. From the drop-down menu under



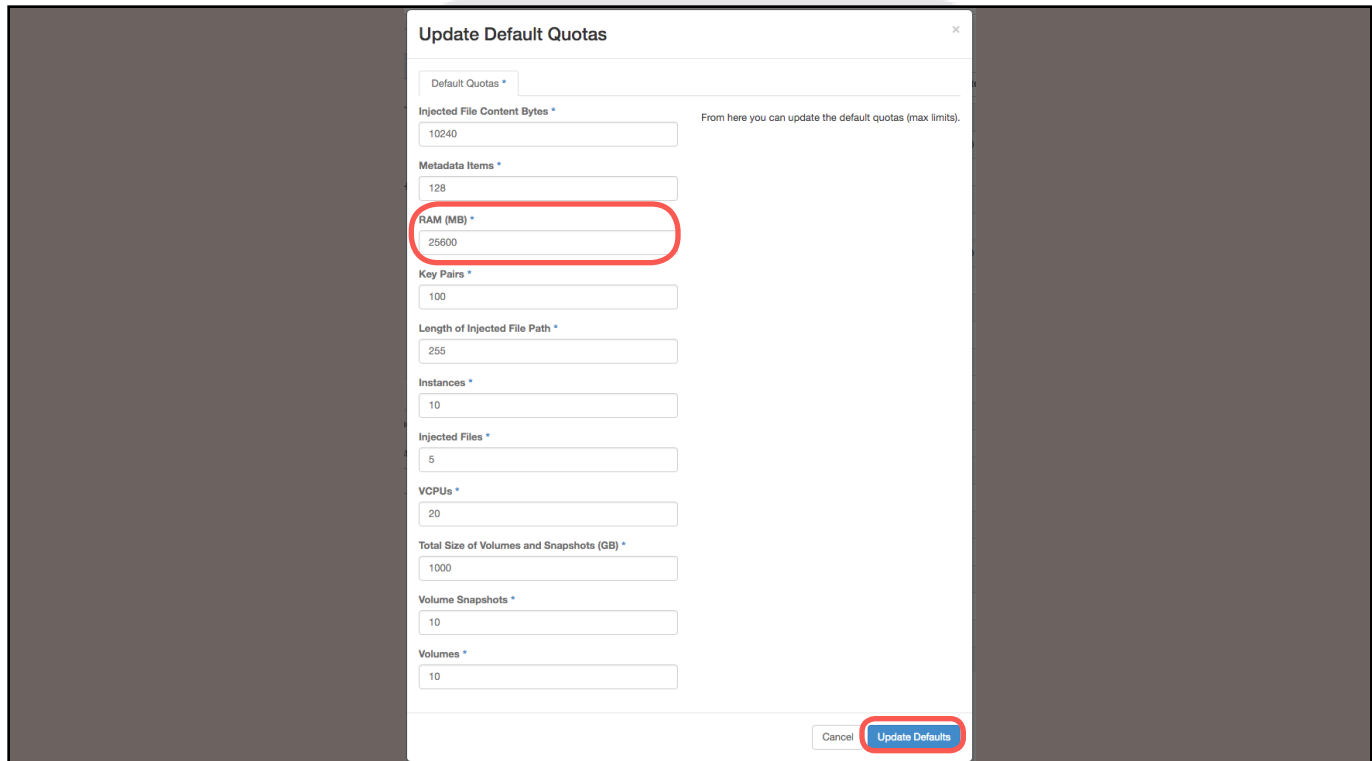
**Flavor**, we can see the **m1.xtiny** option. If we change the dropdown to **m1.small** you can view the details,

including the additional ephemeral disk space. There is no need to launch an instance.

## Default Project Quotas

Log in as the *admin* user, and ensure you have the *admin* project selected.

Underneath the **Admin** tab, select **Defaults**. This page shows the default project quota, which lists the limit of each feature.



The screenshot displays the 'Update Default Quotas' dialog box. It contains several input fields for different quota types, each with a label and a value. The 'RAM (MB)' field is highlighted with a red oval and shows the value '25600'. The 'Update Defaults' button at the bottom right is also highlighted with a red oval.

Quota Type	Value
Injected File Content Bytes *	10240
Metadata Items *	128
RAM (MB) *	25600
Key Pairs *	100
Length of Injected File Path *	255
Instances *	10
Injected Files *	5
VCPUs *	20
Total Size of Volumes and Snapshots (GB) *	1000
Volume Snapshots *	10
Volumes *	10

We want to change the **RAM (MB)** limit from *51200* to *25600*. Select **Update Defaults**. Change the **RAM (MB)** value to *25600*. Other settings can additionally be changed, based on usage, need, and administrator desires.