

# Create VM from image customer guidance.

Author(s) : Klaas Jan de Jager

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# List of changes

Version	Date	Description	Author(s)
1.0	22-08-2023	Initial Eviden version	K.J. de Jager



# 1. Introduction

This manual explains the Shared Image Gallery functionality which is part of the VM OS Management Service.



# 2. Shared Image Gallery concepts

Shared Image Gallery is a service that helps to build structure and organization around custom images. Shared Image Galleries provide:

- Global replication of images.
- Versioning and grouping of images for easier management.
- Highly available images with Zone Redundant Storage (ZRS) accounts in regions that support Availability Zones. ZRS offers better resilience against zonal failures.
- Premium storage support (Premium\_LRS).
- Sharing across subscriptions, and even between Active Directory (AD) tenants, using Azure RBAC.
- Scaling your deployments with image replicas in each region.

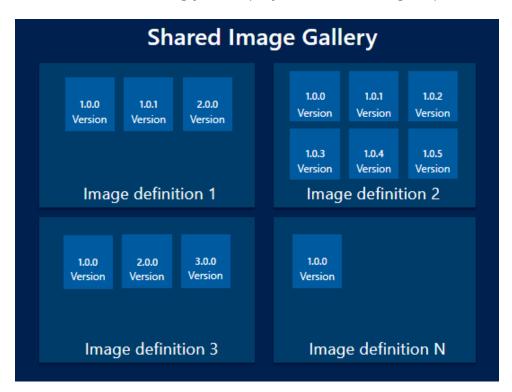


Diagram 2.1 Schematic overview Shared Image Gallery.

### 2.1 Image definitions

Image definitions are a logical grouping for versions of an image. The image definition holds information about why the image was created, what OS it is for, and other information about using the image. An image definition is like a plan for all of the details around creating a specific image. You don't deploy a VM from an image definition, but from the image versions created from the definition.



### 2.2 Image versions

An image version is what you use to create a VM. There can be multiple versions of an image as needed. When using an image version to create a VM, the image version is used to create new disks for the VM.

## 2.3 Overview custom image in the Shared Image Gallery

The high-level overview of all parts needed to create (and start) a VM from a Shared Image Gallery is provided in diagram 2.2.



Diagram 2.2 high-level overview.



#### 3. How to create a VM

Creating a VM, which utilizes a custom image from the Shared Image Gallery, can be done in multiple ways.

The following table sums up the different ways to create a VM and provides the URLs where the step-by-step manuals can be found.

Nr	Method/technology	URL
1.	VM creation using Azure CLI	https://docs.microsoft.com/en-
		us/azure/virtual-machines/vm-generalized-
		<u>image-version-cli#create-the-vm</u>
2.	VM creation using Powershell	https://docs.microsoft.com/en-
		us/azure/virtual-machines/vm-generalized-
		<u>image-version-powershell</u>
3.	VM creation using ARM	Example ARM templates;
	templates	https://github.com/Azure/azure-quickstart-
		templates/tree/master/101-vm-from-sig
4.	VM creation using the Portal	This document, in the next sub paragraphs.

Table 3.1 overview ways to create VMs.

#### 3.1 Using code

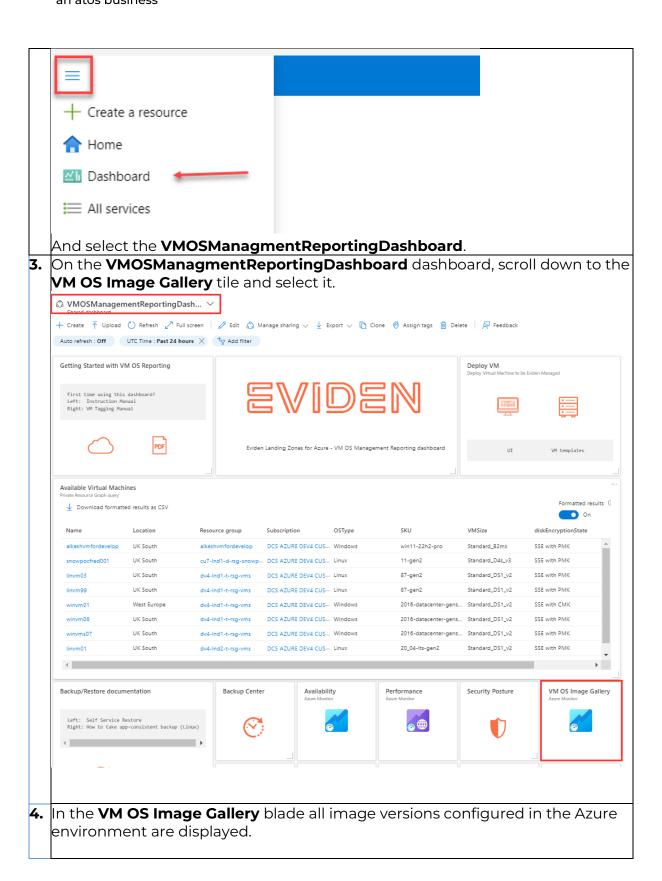
When using code (nr 1. - 3. as described in table 3.1) to create a VM, the Resource ID of the image version in the Shared Image Gallery is necessary.

The Resource ID of an image version can be found on the VMOSManagementReporting dashboard.

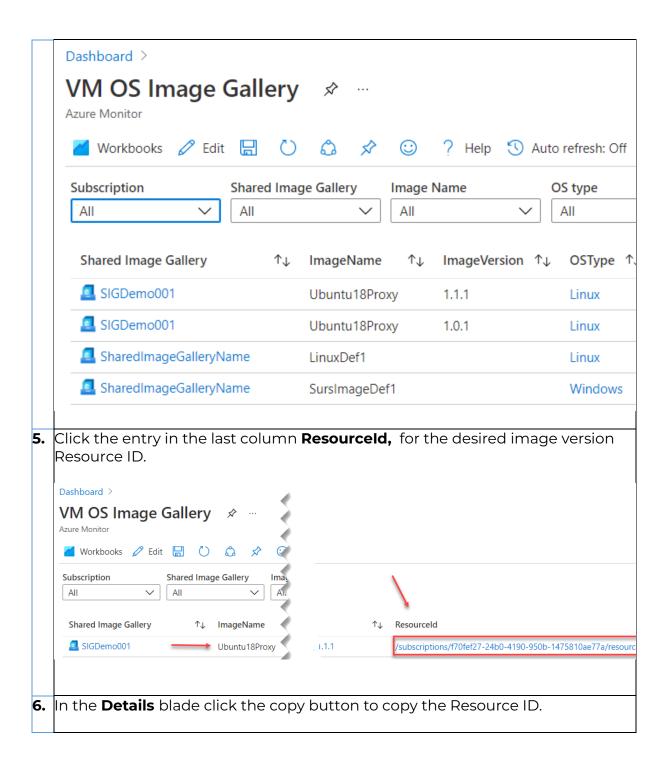
The steps to acquire the Resource ID are as follows:

Nr	Activity
	Log in to the Azure portal Browse to https://portal.azure.com and login with the appropriate credentials.
2.	In the portal menu (up left in the Azure portal), select <b>Dashboard.</b>

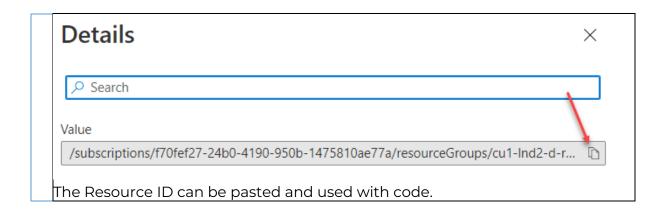












### 3.2 From the portal; step-by-step description

This step-by-step description focuses on the VM image and other related details of VM creation.

There are several extra sections (Disks, Networking, Management, Advanced & Tags) which are out of scope.

When using the portal to create resources there are multiple ways which lead to Rome.

This sub paragraph will describe two.

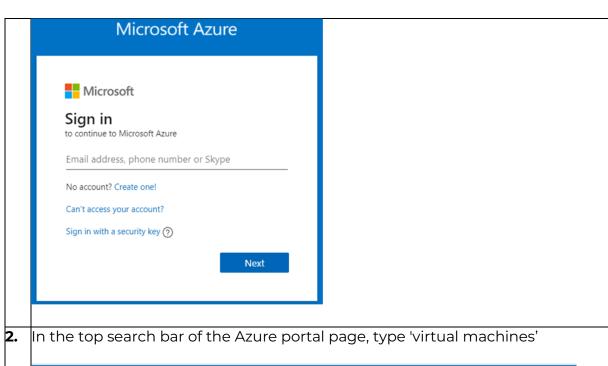
- 1. Creation using the Virtual Machines blade.
- 2. Creation starting from the Shared Image gallery blade.

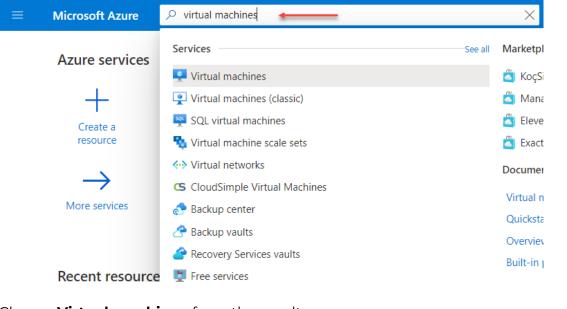
**Note**: When creating a VM from the portal, the latest version of the image is automatically selected. Creation of VMs from other versions of the image is currently not possible from the portal.

#### 3.3 Virtual Machines blade

Ν	r	Activity
1.		Log in to the Azure portal Browse to https://portal.azure.com and login with the appropriate credentials.





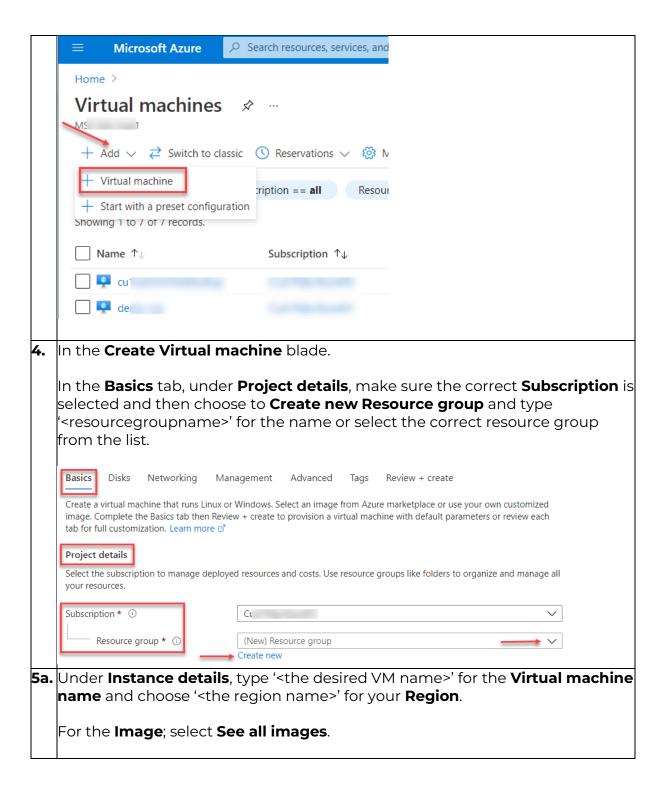


Choose Virtual machines from the results.

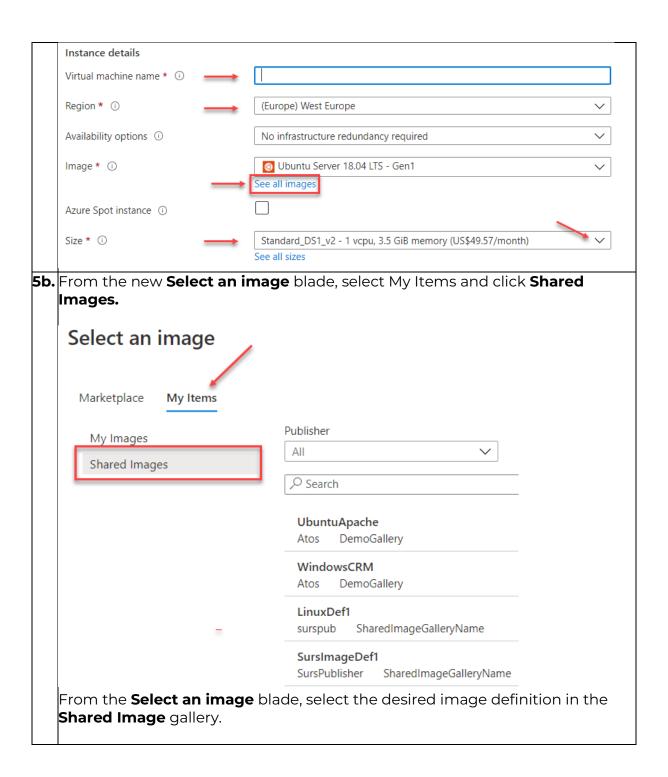
This will take you to an overview (blade) of all the created virtual machines visible to the logged in user.

In the Virtual machines blade select Add button, then click Virtual machine, to start the process of creating a VM.

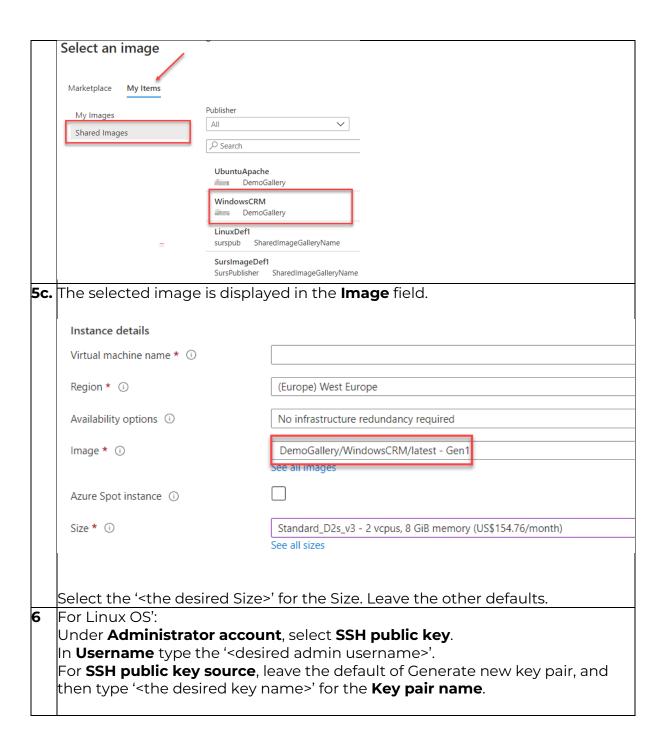




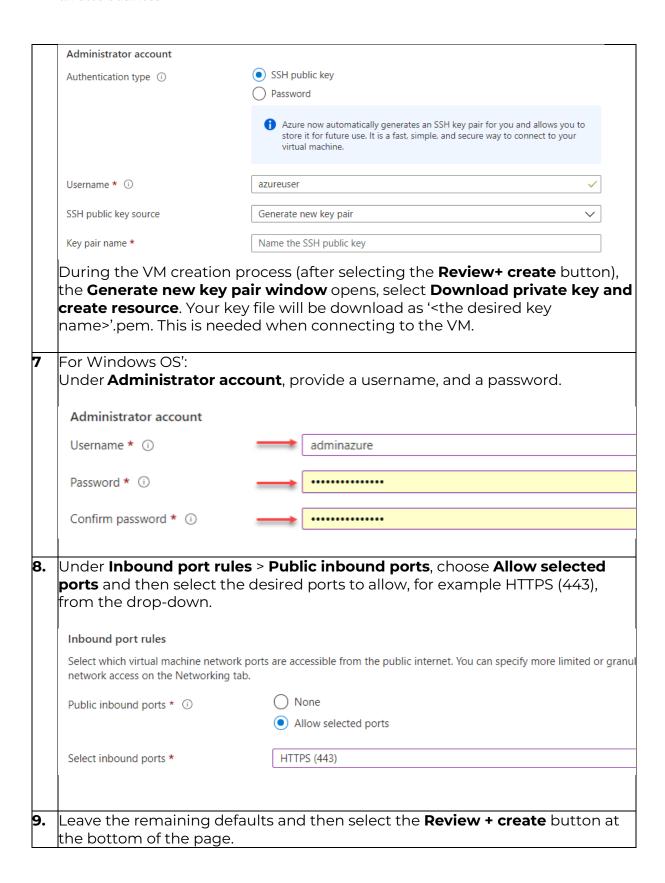














# 3.4 Shared Image gallery blade.

The step-by-step guide(s) for creating a VM from the Shared Image gallery blade can be found on docs.microsoft.com.

The Linux guide is <u>here</u> and the Windows guide <u>here</u>.