Kemp 360 Central for Azure

Installation Guide

UPDATED: 19 February 2019

Copyright Notices

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1 Introduction

Kemp 360 Central is a centralized management, orchestration, and monitoring application that enables the administration of deployed LoadMaster instances.

Kemp 360 Central can be used to perform administrative tasks on each LoadMaster instance. This provides ease of administration because multiple devices, for example, LoadMasters, can be administered in one place, rather than accessing each device individually.

1.1 Document Purpose

The purpose of this document is to provide step-by-step instructions on deploying Kemp 360 Central in Microsoft Azure.

1.2 Intended Audience

This document is intended for anyone who needs more information about deploying Kemp 360 Central in Microsoft Azure.

1.3 Prerequisites

Before you can deploy a Kemp 360 Central for Azure, you must sign up for an Azure account and have an active subscription. If you are new to Azure, you can view a helpful introductory video and sign up for an Azure account from the following webpage: https://azure.microsoft.com/en-us/get-started/

1.4 Check the Virtual Machine Settings

Note that since Version 1.25.2, the default minimum Virtual Machine provisioning requirements for new installs have been updated as follows:

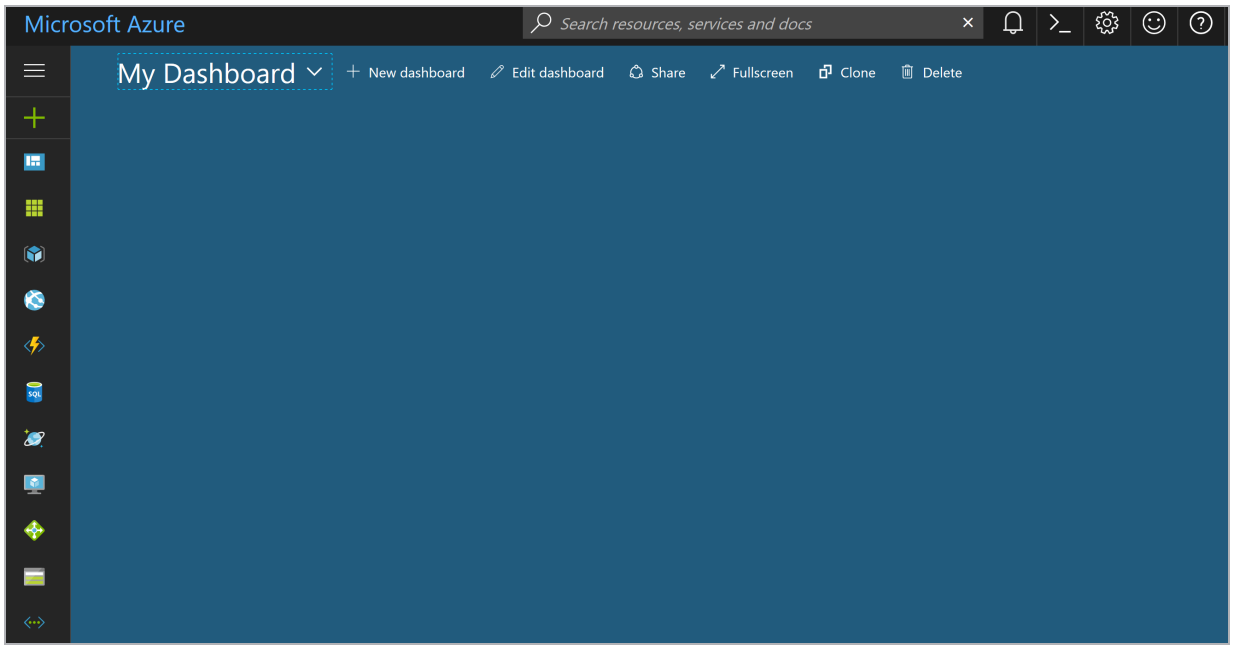
Resource	V1.24 and earlier firmware	V1.25.2 and later firmware
CPU	Two cores	Four cores
RAM	4 GB	8 GB
Disk Storage	40 GB	250 GB

Upgrades to Version 1.25.2 and later releases will not update existing Virtual Machine resources. To modify your current Virtual Machine configuration to conform to the above minimum values, contact Kemp Support.

2 Deploy Kemp 360 Central in Azure

Follow the steps below to deploy Kemp 360 Central in Azure:

1. Log in to the Azure environment at https://portal.azure.com.

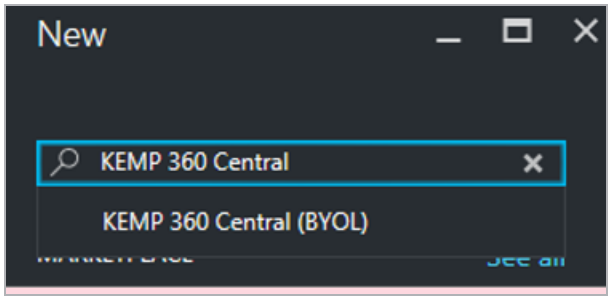


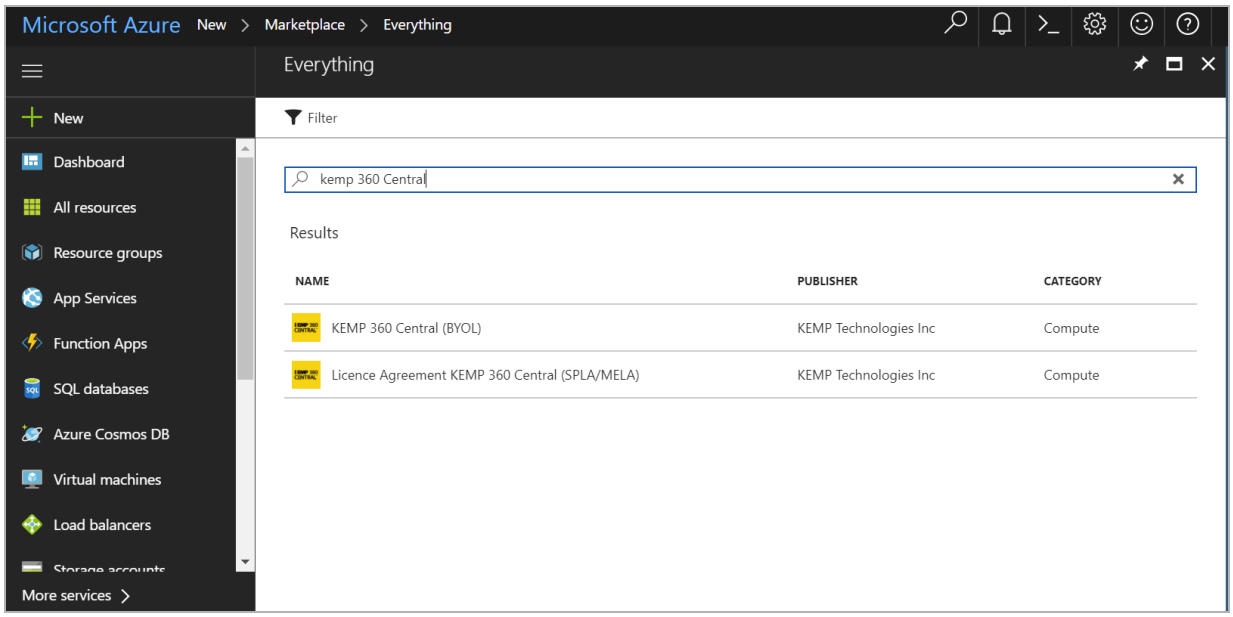
2. From the Azure Management Portal dashboard, click the **New** (plus) icon.

> In some deployments, you may need to click **Marketplace** before you see the **New** icon.

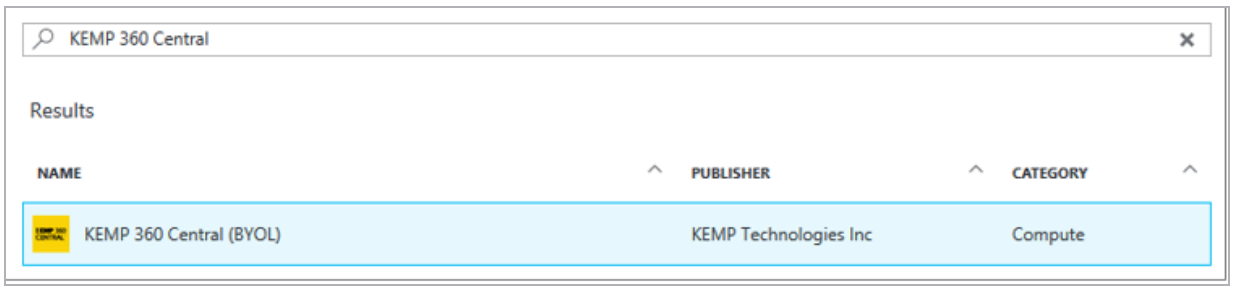
> Two options are available in the Azure marketplace. If you are using Kemp 360 Central for Metered Licensing or you are under a service provider agreement (SPLA), select the **License**

Agreement Kemp 360 Central (SPLA/MELA) version, otherwise, select the **BYOL** version.



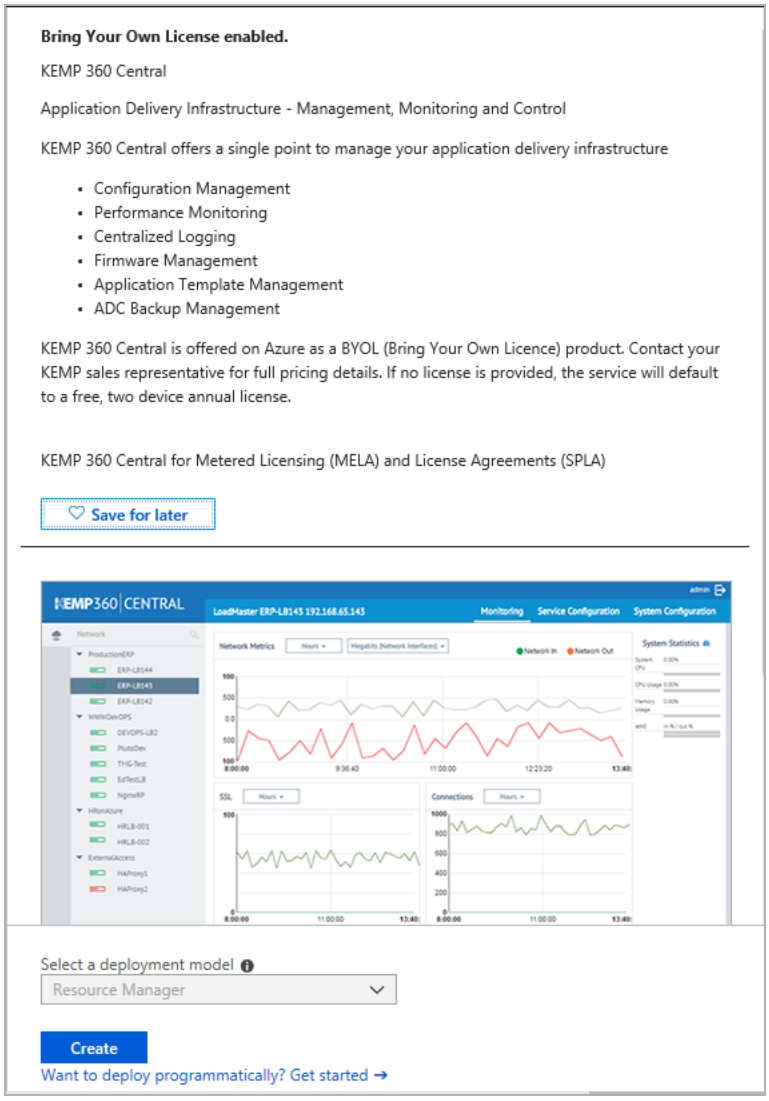


3. Type **Kemp 360 Central** in the **Search** field and click **Return**.

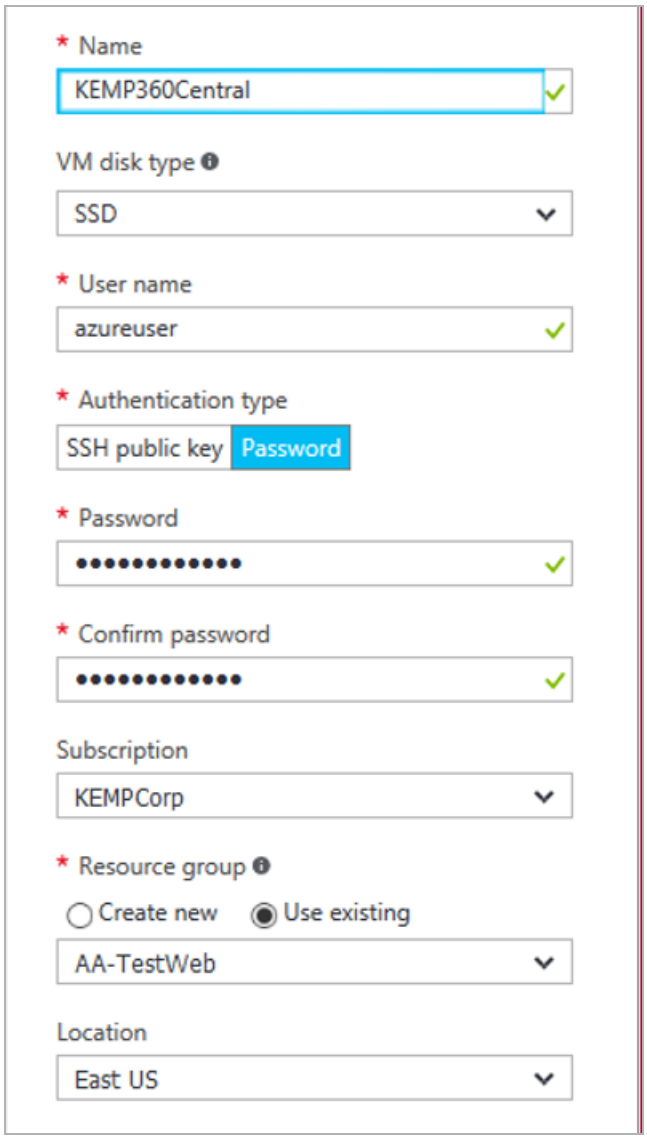


4. Select the Kemp 360 Central image to deploy.

If you do not have a license provided by Kemp for BYOL, SPLA, or Metered Licensing, the license defaults to a free, two device annual license. This free license may be upgraded at any stage to a full license.



5. Ensure you select **Resource Manager** then click **Create**.



6. Enter a **Name** for the Virtual Machine.

> Azure uses this **Name** to create a resolvable DNS address in the cloudapp.net domain. Use this address to access the Kemp 360 Central appliance on Azure. The **Name** is used as the hostname, which is needed when connecting a LoadMaster to this Kemp 360 Central instance.

7. If you select SSD as the VM disk type, you must select an SSD enabled instance and if you select an HDD instance, you must select an HDD enabled instance.

> Note that there is a cost associated with selecting **SSD** as the VM disk type.

8. Enter a **User name**.

9. Enter a **Password**. Note that your password must be between 12 and 72 characters long and contain the following:

- One capital
- One lowercase character
- One number
- One special character other than - or /

> The username and password described above are only used during the deployment process and will not be accessible on the running system. The Kemp 360 Central credentials are set later in the deployment process.

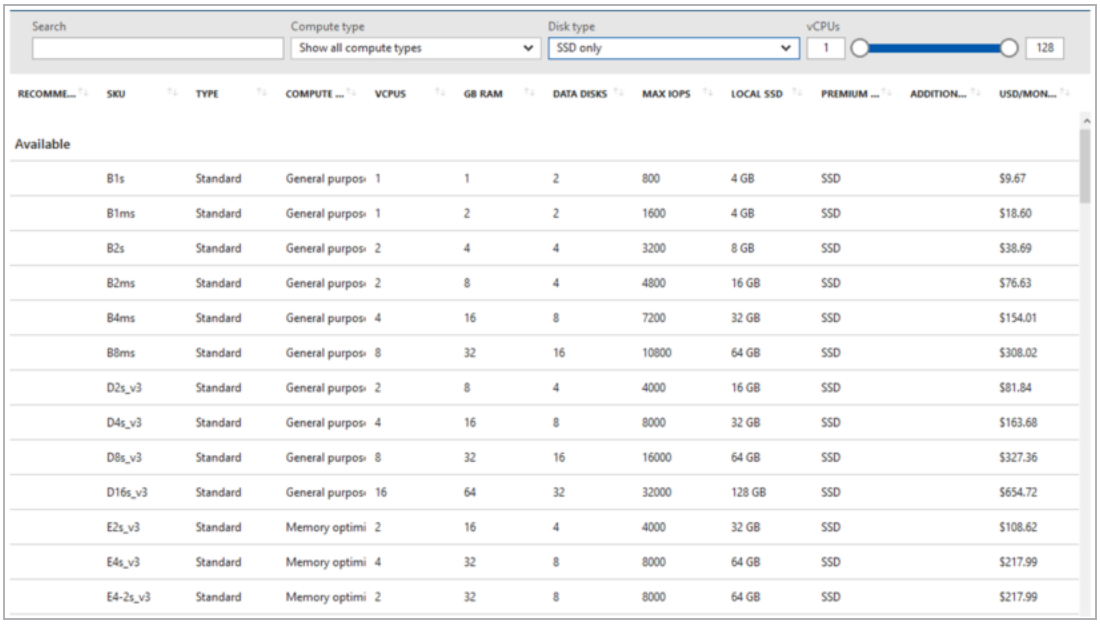
10. Select the relevant **Subscription**.

11. Select the relevant **Resource group** or create a new one if needed.

> Resource groups enable you to monitor, control access, provision and manage billing for collections of assets that are required to run an application, or that are used by a client or company department. For an overview of resource groups and the Resource Manager, see: https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview

12. Select the relevant **Location**.

13. Click **OK**.

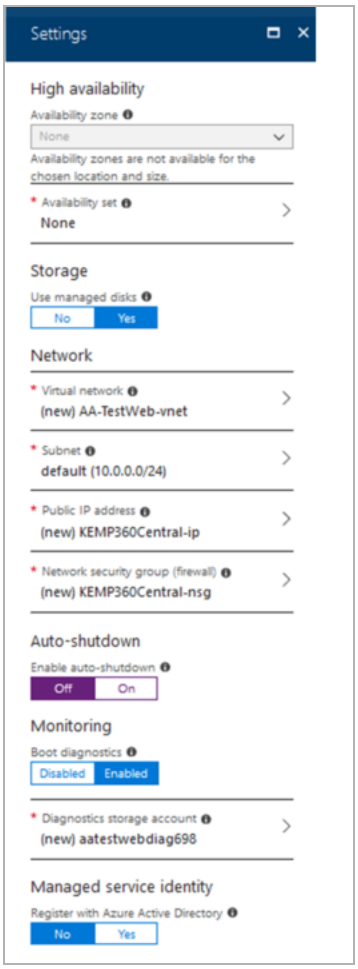


Search | Compute type: Show all compute types | Disk type: SSD only | vCPUs: 1 – 128

RECOMME...	SKU	TYPE	COMPUTE ...	VCPUS	GB RAM	DATA DISKS	MAX IOPS	LOCAL SSD	PREMIUM ...	ADDITION...	USD/MON...
Available											
	B1s	Standard	General purpos	1	1	2	800	4 GB	SSD		$9.67
	B1ms	Standard	General purpos	1	2	2	1600	4 GB	SSD		$18.60
	B2s	Standard	General purpos	2	4	4	3200	8 GB	SSD		$38.69
	B2ms	Standard	General purpos	2	8	4	4800	16 GB	SSD		$76.63
	B4ms	Standard	General purpos	4	16	8	7200	32 GB	SSD		$154.01
	B8ms	Standard	General purpos	8	32	16	10800	64 GB	SSD		$308.02
	D2s_v3	Standard	General purpos	2	8	4	4000	16 GB	SSD		$81.84
	D4s_v3	Standard	General purpos	4	16	8	8000	32 GB	SSD		$163.68
	D8s_v3	Standard	General purpos	8	32	16	16000	64 GB	SSD		$327.36
	D16s_v3	Standard	General purpos	16	64	32	32000	128 GB	SSD		$654.72
	E2s_v3	Standard	Memory optimi	2	16	4	4000	32 GB	SSD		$108.62
	E4s_v3	Standard	Memory optimi	4	32	8	8000	64 GB	SSD		$217.99
	E4-2s_v3	Standard	Memory optimi	2	32	8	8000	64 GB	SSD		$217.99

14. Select the same disk type that you specified in Step 7 above.

15. Select the relevant size and click **Select**. Note that the graphic is not indicative of current pricing requirements.



16. Create a new availability set if required. If you are going to be using Kemp 360 Central in a HA pair, then you must create an availability set for the pair when you create the first Kemp 360 Central. If it is a single Kemp 360 Central in standalone (non-HA) mode, then no availability set is required.

> Note that the availability set of a virtual machine cannot be changed after it is created.

17. Next, configure the storage settings.
18. Select the relevant **Virtual network** or create one if needed.
19. Select the relevant **Subnet**.
20. Select the relevant **Public IP address** or create one if needed.
21. Select the relevant **Network security group** or create one if needed.

The default security group has entries that allow connections from any network over the following protocols and ports:

- TCP port 22 (SSH access for diagnostics)
- TCP port 443 (user interface and API)

The above entries are sufficient if all of your managed devices (LoadMasters and other Application Delivery Controller (ADCs)) have IP addresses that are all located on the same network segment as the Kemp 360 Central IP address. If, however, your configuration contains ADCs that are located on networks other than the local Kemp 360 Central network, you must add security group entries for the following:

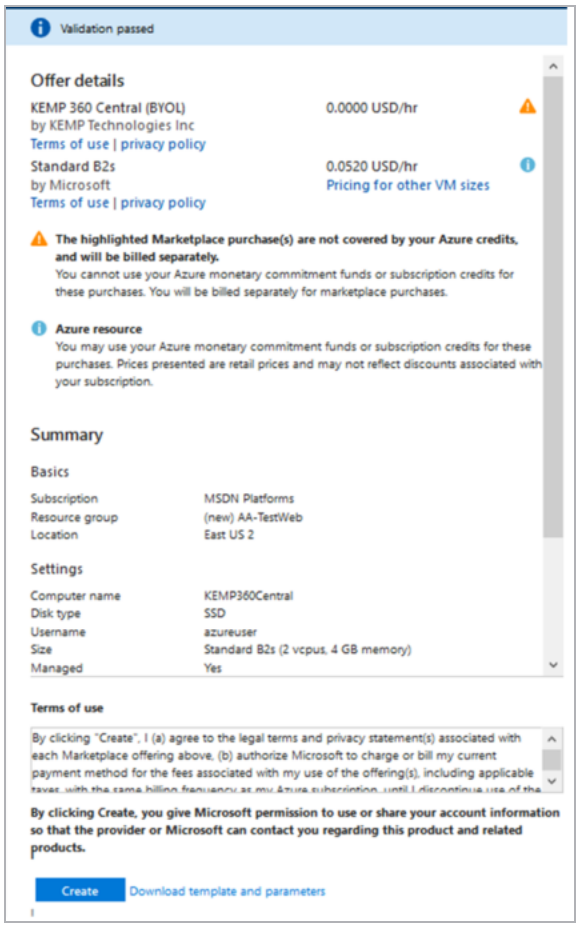
- TCP port 514
- UDP port 514

The above entries in the security group are required to allow the non-local managed devices to send Syslog packets to Kemp 360 Central. The best practice is to create entries for specific networks, rather than allowing access across all networks (0.0.0.0/0).

Note that you will also need entries for all services on back-end servers to be able to communicate through the Azure firewall. These can be added to the security group now, or later after the services are defined.

See the Microsoft Azuredocumentation for more information on creating appropriate security group entries.

22. Set **Auto-Shutdown** to **Off**.
23. Set **Monitoring** to **Enabled**.
24. Set **Manged server identity** to **No**.
25. Click **OK**.



26. Click **Create**. After the VM is deployed, Azure displays the VM dashboard.

The creation of a VM may take a few minutes or more depending on the Azure portal's responsiveness and other factors. Once created, the instance is automatically booted. If the instance fails boot, check the Boot Diagnostics from the VM dashboard for errors.

Now that the instance is deployed, Kemp 360 Central can be configured by connecting to its assigned IP address or FQDN on port 8443. For more information on this, including instructions on how to license Kemp 360 Central, refer to the Kemp 360 Central Feature Description on the Kemp Documentation Page.

References

Related documents are listed below:

Kemp 360 Central, Feature Description

Last Updated Date

This document was last updated on 19 February 2019.

