



Kemp 360 Central for Azure

Installation Guide

UPDATED: 19 February 2019



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Used, under license, U.S. Patent Nos. 6,473,802, 6,374,300, 8,392,563, 8,103,770, 7,831,712, 7,606,912, 7,346,695, 7,287,084 and 6,970,933



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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 |

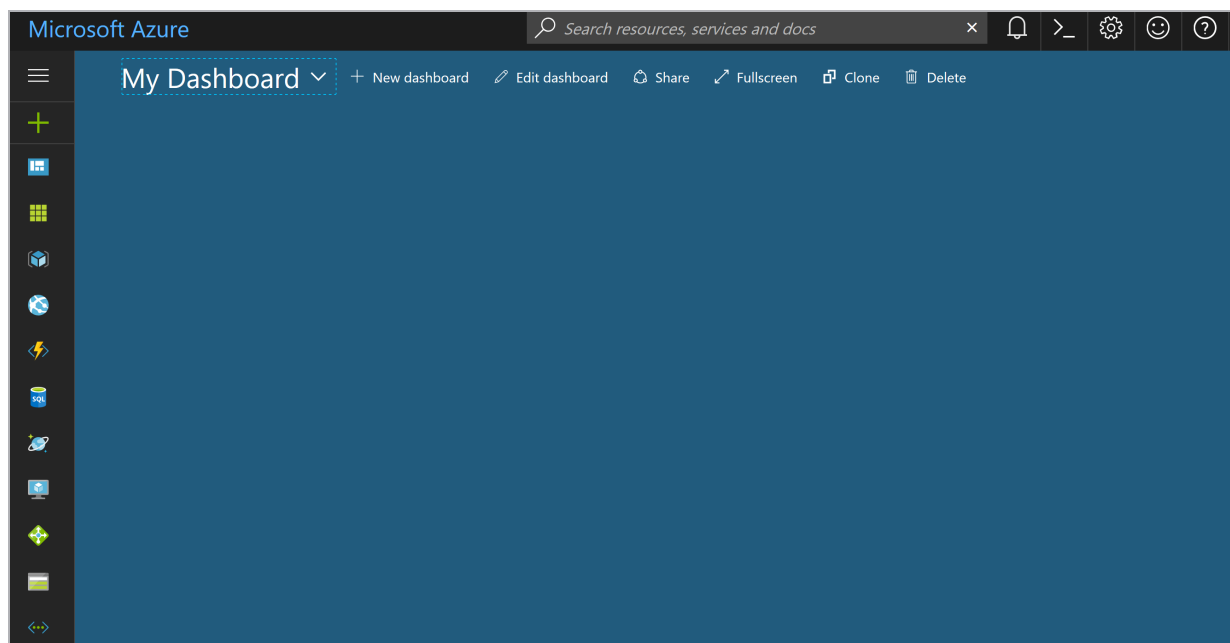


Upgrades to Version 1.25.2 and later releases will not update existing Virtual Machine resources. To modify your current Virtual Machine configuration to conform to the above minimum values, contact Kemp Support.

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>.



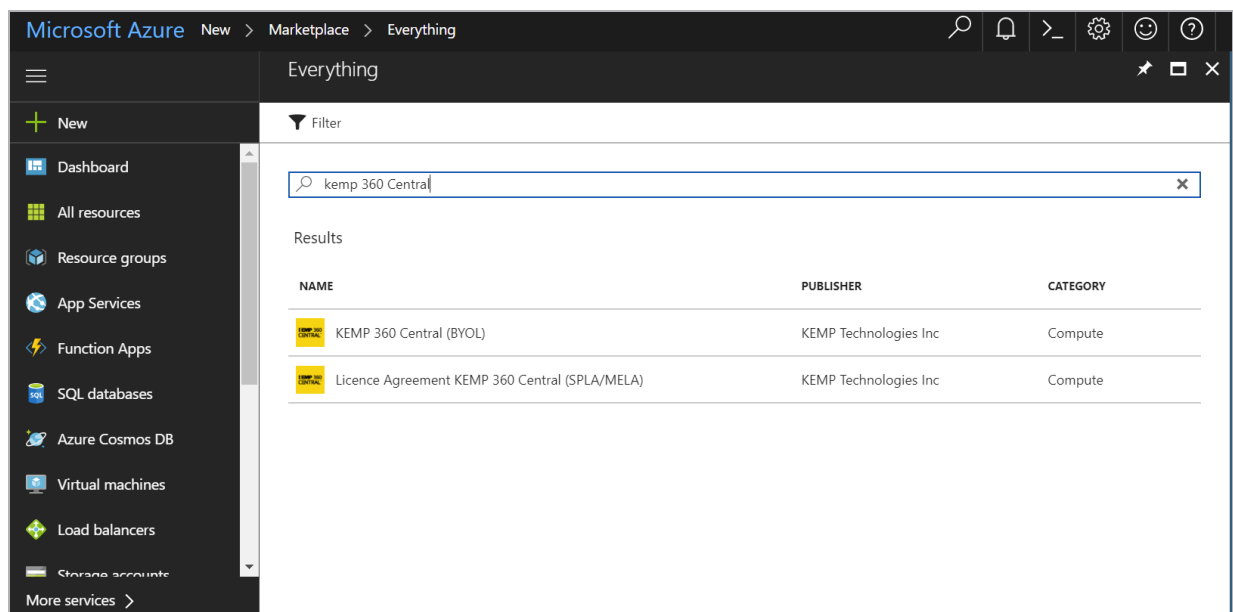
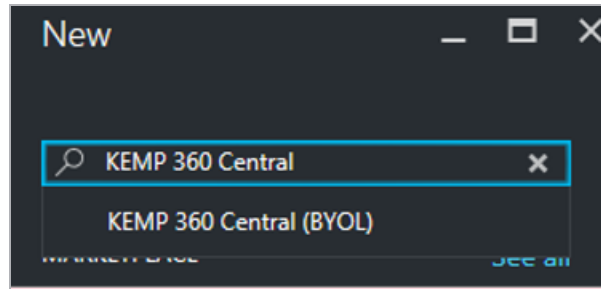
2. From the Azure Management Portal dashboard, click the **New** (plus) icon.

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

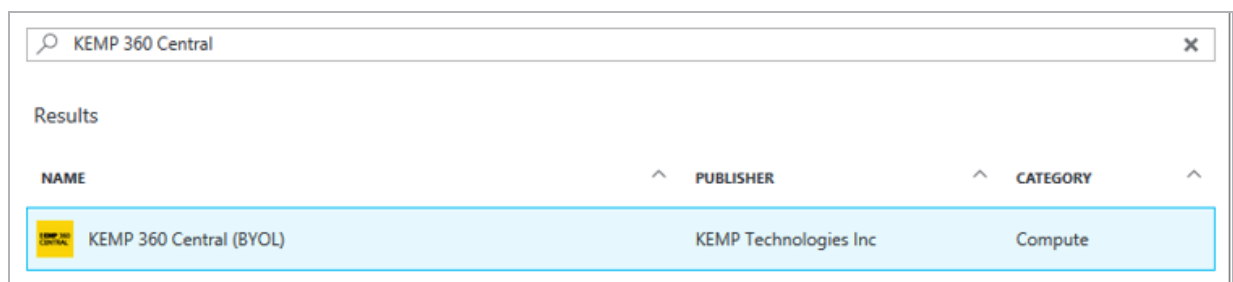


Two options are available in the Azure marketplace. If you are using Kemp 360 Central for Metered Licensing or you are under a service provider agreement (SPLA), select the **License**

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.

Bring Your Own License enabled.

KEMP 360 Central


Application Delivery Infrastructure - Management, Monitoring and Control

KEMP 360 Central offers a single point to manage your application delivery infrastructure

- Configuration Management
- Performance Monitoring
- Centralized Logging
- Firmware Management
- Application Template Management
- ADC Backup Management

KEMP 360 Central is offered on Azure as a BYOL (Bring Your Own Licence) product. Contact your KEMP sales representative for full pricing details. If no license is provided, the service will default to a free, two device annual license.

KEMP 360 Central for Metered Licensing (MELA) and License Agreements (SPLA)

[Save for later](#)

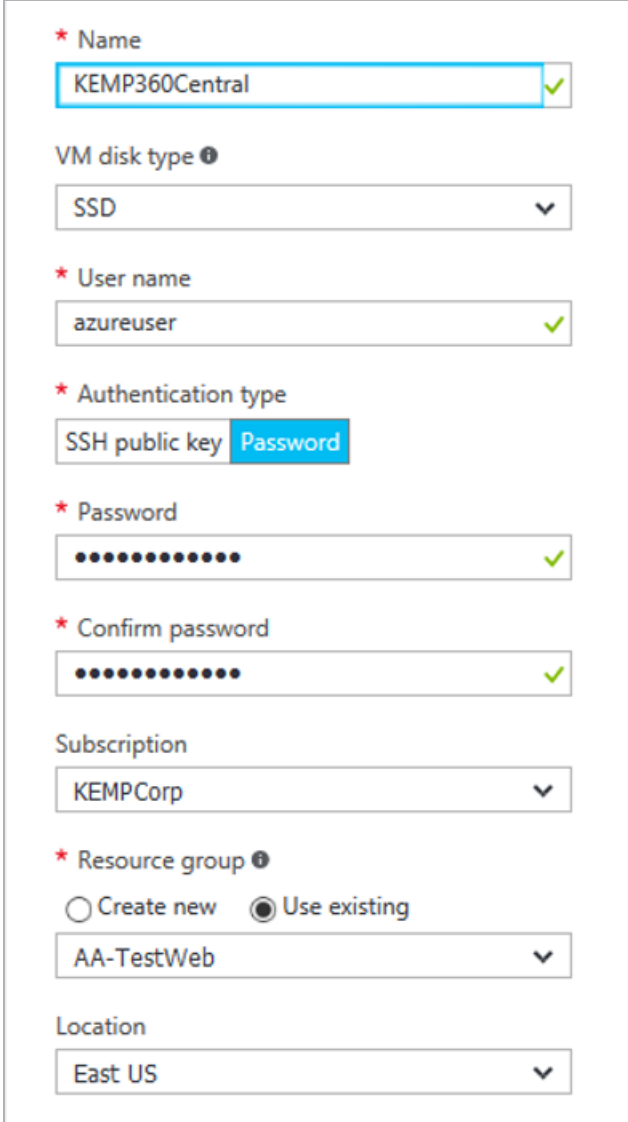
Select a deployment model ⓘ

Resource Manager

Create

[Want to deploy programmatically? Get started →](#)

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



* Name
KEMP360Central ✓

VM disk type ⓘ
SSD ▼

* User name
azureuser ✓

* Authentication type
SSH public key Password

* Password
..... ✓

* Confirm password
..... ✓

Subscription
KEMPCorp ▼

* Resource group ⓘ
☐ Create new ☒ Use existing
AA-TestWeb ▼

Location
East US ▼

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

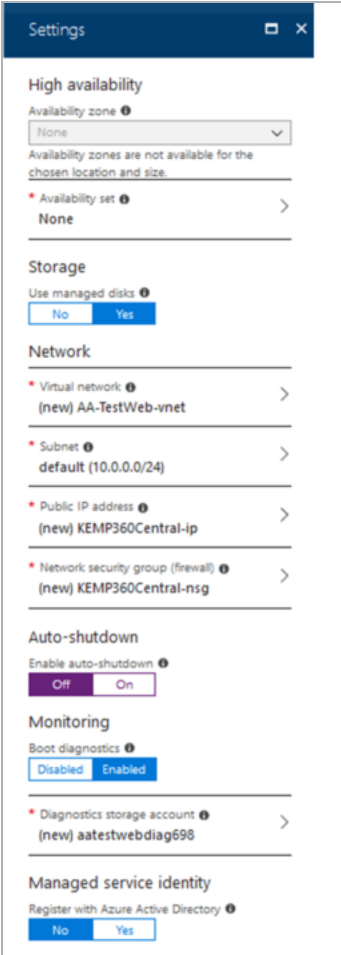
1

128

| RECOMMENDED | SKU | TYPE | COMPUTE ... | VCPUS | GB RAM | DATA DISKS | MAX IOPS | LOCAL SSD | PREMIUM ... | ADDITIONAL ... | 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 Azure documentation](#) for more information on creating appropriate security group entries.

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

i Validation passed

Offer details

| | | |
|--|---|--|
| KEMP 360 Central (BYOL) by KEMP Technologies Inc Terms of use privacy policy | 0.0000 USD/hr | |
| Standard B2s by Microsoft Terms of use privacy policy | 0.0520 USD/hr Pricing for other VM sizes | |

The highlighted Marketplace purchase(s) are not covered by your Azure credits, and will be billed separately.
You cannot use your Azure monetary commitment funds or subscription credits for these purchases. You will be billed separately for marketplace purchases.

Azure resource
You may use your Azure monetary commitment funds or subscription credits for these purchases. Prices presented are retail prices and may not reflect discounts associated with your subscription.

Summary

| | |
|-----------------|-------------------------------------|
| Basics | |
| Subscription | MSDN Platforms |
| Resource group | (new) AA-TestWeb |
| Location | East US 2 |
| Settings | |
| Computer name | KEMP360Central |
| Disk type | SSD |
| Username | azureuser |
| Size | Standard B2s (2 vcpus, 4 GB memory) |
| Managed | Yes |

Terms of use

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with each Marketplace offering above. (b) authorize Microsoft to charge or bill my current payment method for the fees associated with my use of the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the

By clicking Create, you give Microsoft permission to use or share your account information so that the provider or Microsoft can contact you regarding this product and related products.

Create
Download template and parameters

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.