# **Step-by-step Guide**

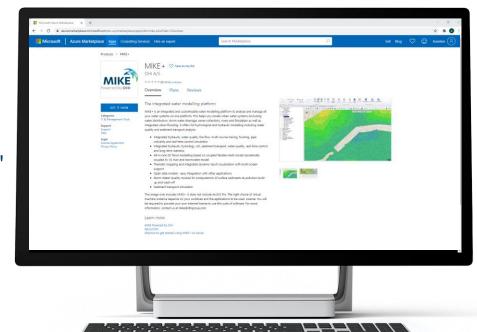
How to start a MIKE+ Virtual Machine from Microsoft Azure Marketplace



## MIKE+ is now available on Azure Marketplace

## What's required?

- Microsoft Azure account
- DHI internet license for MIKE+ If you choose "Bring your own license"





С ഹ D https://azuremarketplace.microsoft.com/en-us/marketplace/apps?search="MIKE%2B"&page=1&filters=partners%3Bvirtual-machine-images Microsoft Q  $\bigcirc$ Azure Marketplace Apps Consulting Services Search Marketplace Sell Blog K Trials Operating System Publisher Browse apps Find MIKE+ via the All  $\sim$ All  $\sim$ Partners Get Started Marketplace Search Tool Analytics All results AI + Machine Learning міке MIKE MIKE MIKE Azure Active Directory MIKE Blockchain MIKE Zero MIKE+ MIKE Zero MIKE+ MIKE URBAN+ Compute By DHI A/S Containers MIKE Modelling Suite for Water The integrated water modelling MIKE Modelling Suite for Water The integrated water modelling The integrated platform for Environment. platform Environment. platform advanced urban water modelling Databases Developer Tools DevOps Identity Starts at Starts at Bring your own license Bring your own license Bring your own license Integration \$12.00/hour \$8.00/hour Internet of Things  $\heartsuit$ Get it now  $\heartsuit$  $\heartsuit$  $\heartsuit$  $\heartsuit$ Get it now Get it now Get it now Get it now IT & Management Tools Monitoring & Diagnostics MIKE Media

Migration

Mixed Reality

FEFLOW

By DHI A/S

The all-in-one groundwater modelling solution

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Get it now

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Networking

Security

Storage

Web

Click 'Get it Now' on the license type you want.  $\odot$ 

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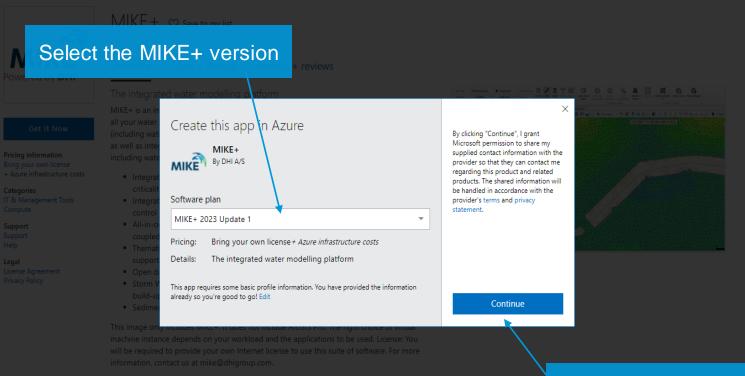


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Products > MIKE+



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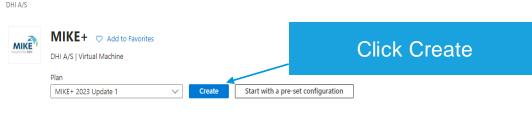
MIKE Powered by DHI About DHI How to get started using MIKE+ on Azure

### **Click Continue**

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Home > MIKE+

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Want to deploy programmatically? Get started

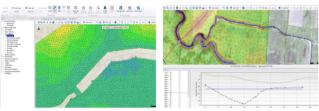
Overview Plans + Pricing Usage Information + Support Ratings + Reviews

MIKE+ is an integrated and customisable water modelling platform to analyse and manage all your water systems on one platform. This helps you model urban water systems (including water distribution, storm water drainage, sewer collection), rivers and floodplain as well as integrated urban flooding. It offers full hydrological and hydraulic modelling including water quality and sediment transport analysis.

- · Integrated hydraulic, water quality, fire flow, multi-source tracing, flushing, pipe criticality and real-time control simulation
- Integrated hydraulic, hydrology, LID, sediment transport, water quality, real-time control and long-term statistics
- · All-in-one 2D flood modelling based on coupled flexible mesh model dynamically coupled to 1D river and stormwater model
- · Thematic mapping and integrated dynamic result visualisation with multi-screen support
- · Open data models easy integration with other applications
- · Storm Water Quality module for computations of surface sediments & pollution build-up and wash-off
- · Sediment transport simulation

This image only includes MIKE+. It does not include ArcGIS Pro. The right choice of virtual machine instance depends on your workload and the applications to be used. License: You will be required to provide your own Internet license to use this suite of software. For more information, contact us at mike@dhigroup.com.

### Media



### Your account will show here

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Create a virtual mach	ine …		×
Create a virtual machine that runs Linux	Management Advanced Tags Review + create c or Windows. Select an image from Azure marketplace or use your own customized view + create to provision a virtual machine with default parameters or review each of	Specify the subscription and resource group	ĺ
Project details			
Select the subscription to manage deplyour resources. Subscription * ① Resource group * ①	oyed resources and costs. Use resource groups like folders to organize and manage all	Name your virtual machine	
Instance details			
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Availability options ①	No infrastructure redundancy required		
Image * 🛈	MIKE+ 2021 - Gen1 V See all images	·Q·	
Azure Spot instance 🕕		Hint:	
Size * 🕕	Standard_D2_v2 - 2 vcpus, 7 GiB memory (DKK 991.34/month) V See all sizes	You might not find the VM	
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Username * 🛈 Password * 🛈	MyAdminName	preferred region. In that case simply try another region.	
Review + create < P	revious Next : Disks >		

### Home > MIKE+ >

### Create a virtual machine

Instance details		
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	Vou can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more 🗗	
Security type 🕕	Trusted launch virtual machines	Hint:
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Image * (i)	₩ MIKE+ 2023 Update 1 - x64 Gen2 ∨	If you encounter this message
2 -	See all images   Configure VM generation	simply select 'Standard'
	This image is not compatible with the selected security type. To keep Trusted launch virtual machines, select a compatible image. Otherwise, change your security type back to Standard.	Security type.
VM architecture ①	Arm64	
	● x64	
	Arm64 is not supported with the selected image.	
Run with Azure Spot discount ①		
Size * 🕕	Standard_D8s_v5 - 8 vcpus, 32 GiB memory (\$592.76/month)	
	See all sizes	-
Administrator account		
Username * 🕕		]
Review + create < P	revious Next : Disks >	

Microsoft Azure

portal.azure.com/#create/dhi.mike-plusmike-plus-2021

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### Create a virtual machine

Basics Disks Networking Management Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more 🗗

MyAdminName

#### Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * 🛈	Your recently used sizes
Resource group * 🕕	Standard_D2_v2 - 2 vcpus, 7 GiB memory (DKK 991.34/month)
	Standard_D2s_v3 - 2 vcpus, 8 GiB memory (DKK 849.72/month)
Instance details	Standard_NC12_Promo - 12 vcpus, 112 GiB memory (DKK 5,978.70/month)
Virtual machine name * 🕕	Standard_NC12s_v3 - 12 vcpus, 224 GiB memory (DKK 30,600.14/month)
Region * 🛈	Standard_B2s - 2 vcpus, 4 GiB memory (DKK 229.00/month)
5	Recommended by image publisher
Availability options ①	Standard_D8s_v3 - 8 vcpus, 32 GiB memory (DKK 3,400.34/month)
Image * 🛈	Standard_D16s_v3 - 16 vcpus, 64 GiB memory (DKK 6,802.14/month)
	Standard_F8s_v2 - 8 vcpus, 16 GiB memory (DKK 3,212.73/month)
Azure Spot instance 🕕	See all sizes
Size * 🛈	Standard_D2_v2 - 2 vcpus, 7 GiB memory (DKK 991.34/month)
	See all sizes
Administrator account	

### Select your hardware (and cost)

### Hint:

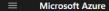
The availability of VM hardware depends on your choice of region and the general availability. For GPU VM's you need to request a quota increase for that particular VM size. To do that, press "See all sizes".

#### Ac

MvAdminName Username \* ① Password \* ① .....

Review + create

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Select

### Home > IMIKE+ > Create a virtual machine >

### Select a VM size

M Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data di
Other sizes				
Size not available	Se	e the info bubble ne	xt to a size for details or	availability
/ Insufficient quota - family limit	Fa	mily vCPUs are insuf	ficient to deploy these si	zes
NV4as_v4 🛈 Request quota	GPU	4	14	8
NV6ads_A10_v5 ① Request quota	GPU	б	55	4
NV8as_v4 () Request quota	GPU	8	28	16
NV12ads_A10_v5 ① Request quota	GPU	12	110	8
NV16as_v4 (i) Request quota	GPU	16	56	32
NV32as_v4 (i) Request quota	GPU	32	112	32
NV36ads_A10_v5 ① Request quota	GPU	36	440	32
NV36adms_A10_v5 ① Request quota	GPU	36	880	32
NC64as_T4_v3 ① Request quota	GPU	64	440	32
NV72ads_A10_v5 ① Request quota	GPU	72	880	32
NV18ads_A10_v5 (i) Request quota	GPU	18	220	16

If you want a GPU VM you need to request a quota.

Before deciding on which GPU VM you want to request a quota increase for you need to verify that it uses an nvidia GPU. Requesting a quota does not guarantee that you will get it: If it is not available you will need to try in another region.

Hint: Microsoft has online documentaion about what their different VM Sizes have in terms of GPU hardware.

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#### Dashboard > Marketplace >

### Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. Learn more B<sup>a</sup>

#### Network interface

Review + create

When creating a virtual machine, a network interface will be created for you.

< Previous

Virtual network * 🕡	(new) MyVirtualMachine-vnet	$\sim$
	Create new	_ /
Subnet * 🕡	(new) default (10.0.0/24)	$\sim$
Public IP 🕕	(new) MyVirtualMachine-ip	$\sim$
NIC network security group ①	Create new	
Nic network security group ()	Basic	
	Advanced	
Public inbound ports * 🕕	O None	
	Allow selected ports	
Select inbound ports *	RDP (3389)	$\checkmark$
	This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab create rules to limit inbound traffic to known IP addresses.	
Delete public IP and NIC when VM is deleted ①		
Enable accelerated networking ①	The selected image does not support accelerated netwo	orking

Next : Management >

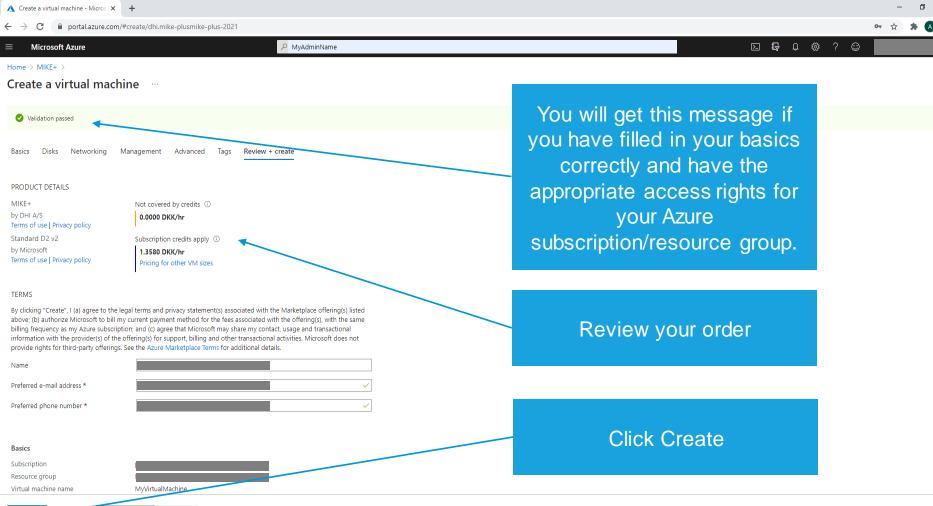
Under 'Networking' make sure the VM has a Public IP so you are able to connect to it after creating

≡	Micros	soft Azure		MyAdminName
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#### 🗵 🗣 🗘 🍩 ? 🙂 Home > MIKE+ > Create a virtual machine X Subscription \* ① $\sim$ Resource group \* ① $\sim$ Create new Instance details Virtual machine name \* ① MyVirtualMachine $\checkmark$ Region \* 🕕 (Europe) North Europe $\sim$ Availability options ① No infrastructure redundancy required $\sim$ MIKE+ 2021 - Gen1 Image \* 🕕 $\sim$ See all images Azure Spot instance ① $\sim$ Size \* 🛈 Standard\_D2\_v2 - 2 vcpus, 7 GiB memory (DKK 991.34/month) See all sizes Administrator account Specify a user name and MyAdminName Username \* 🛈 $\checkmark$ password (and write it down) Password \* ① ..... $\checkmark$ Confirm password \* 🕕 ..... $\checkmark$ Licensing Save up to 49% with a license you already own using Azure Hybrid Benefit. Learn more 🖒 Click Review + Create Would you like to use an existing Windows Server license? \* ① Review Azure hybrid benefit compliance

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<sup>&</sup>lt; Previous Next > Download a template for automation

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	Next steps      Setup auto-shutdown Recommended      Monitor VM health, performance and network dependencies Recommended      Run a script inside the virtual machine Recommended      Go to resource      Go to resource	Go to resource	Free Microsoft tutorials Start learning today > Work with an expert Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

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Overview	↑ Essentials	JSON View
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Access control (IAM)	Status : Running	Size : Standard D2 v2 (2 vcpus, 7 GiB memory)
🗳 Tags	Location : North Europe Subscription (change) :	Public IP address : Virtual network/subnet :
Diagnose and solve problems	Subscription ID :	DNS name : Configure
Settings	Tags (change) : Click here to add tags	
2 Networking		· )
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B Disks	📮 Virtual machine	
📮 Size	Computer name MyVirtualMachin	This is your new VM dashboard where you
Security	Operating system Windows	can monitor/control the instance. Make sure
Advisor recommendations	Publisher dhi	Physics P abdress 10 rt or /
Extensions	Offer mike-plus Plan mike-plus-2021	to stop the VM from here when you are not
🐔 Continuous delivery	VM generation V1	using it: Shutting it down inside Windows
😒 Availability + scaling	Agent status Not Ready	
💼 Configuration	Agent version Unknown	will not "deallocate" it and you will still be
🚷 Identity	Host group None	paying for it. Once your VM is "deallocated"
Properties	Host - Proximity placement group -	RAM 7 GIB
🔒 Locks	Colocation status N/A	you are only paying for the storage.
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<ul> <li>Tags</li> <li>Diagnose and solve problems</li> </ul>	A just-in-time access enables you to lock down inbound traffic to your VM by allowing access for only a limited time. The just- in-time feature is available as part of the Azure Security Center standard tier. Learn more about just-in-time access C	
Settings	Licensing Save up to 49% with a license you already own using Azure Hybrid Benefit. Learn more r	
ダ Connect 🛢 Disks	Would you like to use an existing Windows Server license? * Yes  No	
<ul> <li>Size</li> <li>Security</li> </ul>	Review Azure hybrid benefit compliance the access to the Virtual Machine	
<ul> <li>Advisor recommendations</li> <li>Extensions</li> </ul>	Proximity placement group       Proximity placement group ①       No proximity placement groups found	-
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🔇 Availability + scaling	Proximity placement group can only be updated when the virtual machine is deallocated.	
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🔒 Locks	choose Whis from your subscription that will be provisioned on the host, and of the host. Learn more B'	
Operations		
× Bastion	Host group © your Virtual Machine running overnight	
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$\equiv$ Microsoft Azure	∠ Search resources, servi	ces, and docs (G+/)		d 📭 🗘 🏟 ? 😅	
	e-plus-2021-20210319114841 > MyVirtualMachine				
MyVirtualMachine	Connect				×
✓ Search (Ctrl+/) «	lacksquare To improve security, enable just-in-time access on this VM. $ imes$				
Overview					
Activity log	RDP SSH BASTION				
Access control (IAM)	Connect with RDP				
🗳 Tags	To connect to your virtual machine via RDP, select an IP address, optionally	change the port number, and download the			
Diagnose and solve problems	RDP file.				
Settings	IP address * Public IP address (137.135.132.167)	s Remote Desktop Connection	×		
Networking	Port number *	The identity of the remote computer cannot be verified	. Do		
🖉 Connect	3389				
🛢 Disks	Download RDP File	The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.			
📮 Size		Certificate name  Name in the certificate from the remote computer:			
Security	Can't connect?	MyVirtualMachin			
Advisor recommendations	S Test your connection	Certificate errors			
Extensions	Troubleshoot RDP connectivity issues	The following errors were encountered while validating the remote computer's certificate:			
🐔 Continuous delivery		The certificate is not from a trusted certifying authority.			
Availability + scaling		Do you want to connect despite these certificate errors?			
Configuration		Don't ask me again for connections to this computer			
% Identity		View certificate Yes No	-		
Properties					
🔒 Locks					
Operations			<u> </u>		
✓ Bastion					
Auto-shutdown			JUST CIICK Y	es' if prompted by	
ackup			this	message	
Disaster recovery					



At this point, you could consider editing your Windows Update Policy to avoid unwanted reboots during simulations

=	All	Apps	Documents	Settings	Email	More 🗸		Feedback	
ሴ	Best m	atch							-
		Edit gro Control p	<b>up policy</b> anel		$\rightarrow$				
							¥		
							Edit group policy Control panel		
						📑 Open	1		

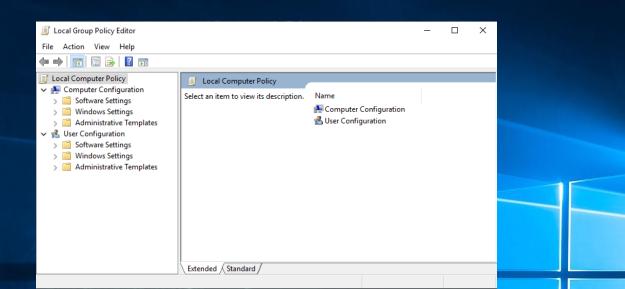
Please note that disabling automatic updates is generally unadvisable, and done at your own risk. DHI assumes no responsibility should you choose to do so.

Ok? Let's continue. Search for and launch "Edit Group Policy" to get started

 $\mathcal{P}$  edit group policy





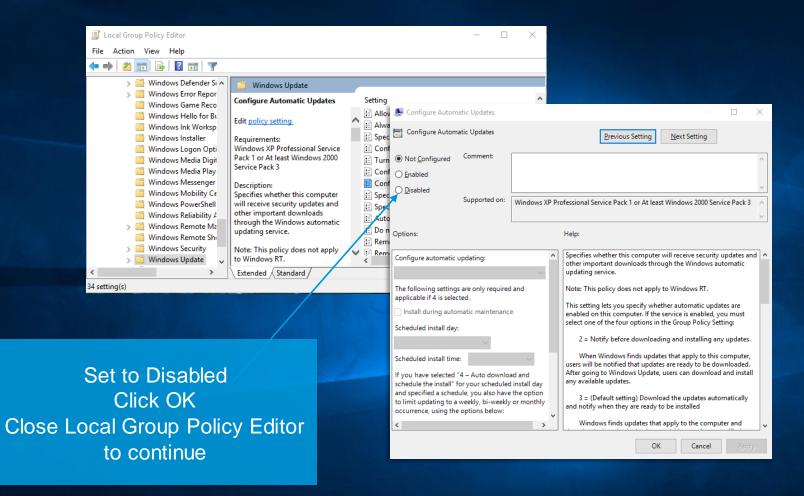


### Navigate to:

Computer Configuration\Administrative Templates\ Windows Components\Windows update\ Configure Automatic Updates





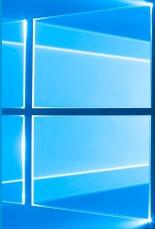


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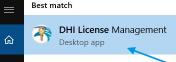


Once connected to your VM, you can go straight to DHI License Management Windows Search – Let's do that!

If you have chosen the Pay As You Go – variant, this step can be ignored, as your license is already configured.







Find DHI License Management, and have your MIKE Internet license information ready at hand!



DHI License

<u>نې</u>



Recycle Bin

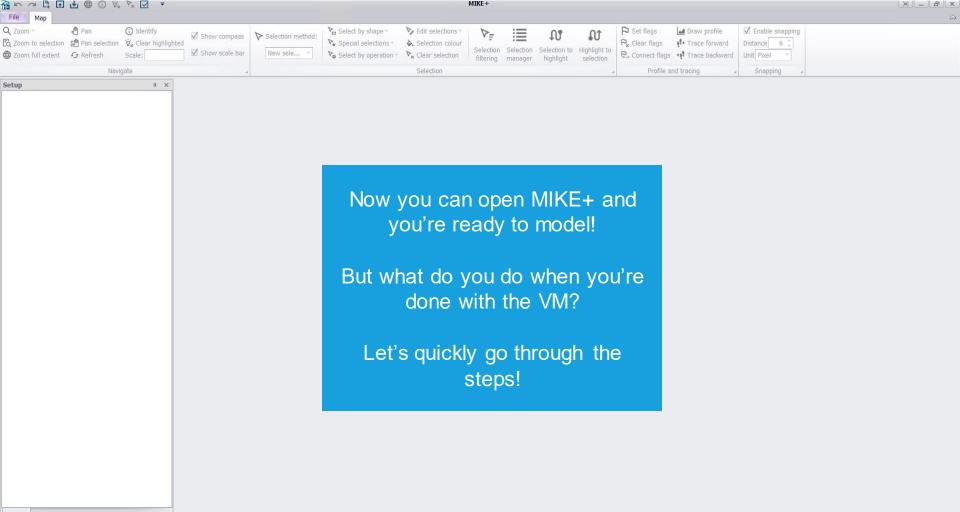
R DHI License Managemen	(Administrator) — 🗆 X
Date -	ernet License Server
MIKE 21C 2021 MIKE 3 2021 MIKE Animator Plus 20 MIKE FLOOD 2021 MIKE HVDRO 2021 MIKE SHE 2021 Remote Simulation 20: Local settings	Available licenses Program Version Variant Order Id Model size
	Fill in your details and click 'Connect'
< >>	All Users OK Apply Close Help



<table-of-contents> DHI License Managemen</table-of-contents>	t <mark>(</mark> Administrator)			1		×	
Int	cernet Li	ssions 🌱		ver		***	Yo shc
A LITPACK 2021 MIKE 11 2021 MIKE 21 2021 MIKE 21 2021 MIKE 3 2021 MIKE 3 2021 MIKE Animator Plus 20	Internet license s User name (ema Password: Available license	i)			Connect Settings		
MIRE Hamileur Prize 20 MIRE HODD 2021 MIRE HORD 2021 MIRE SHE 2021 Remote Simulation 20: Cocal settings	Program m21pp BathEdit GridEdit MZAPPSHELL PlotComposer ProfileEdit Result_Viewer	Version 2014 2014 2014 2014 2014 2014 2014 2014	Variant	Order Id 70723 70723 70723 70723 70723 70723 70723 70723	Model si unlimite unlimite unlimite unlimite unlimite unlimite		
	Refresh				\$		L k
< >	All Users	ОК	Аррі,	Close	Не	lp 	

Your license information should soon appear here

Remember to click 'Apply' before you exit the License Manager

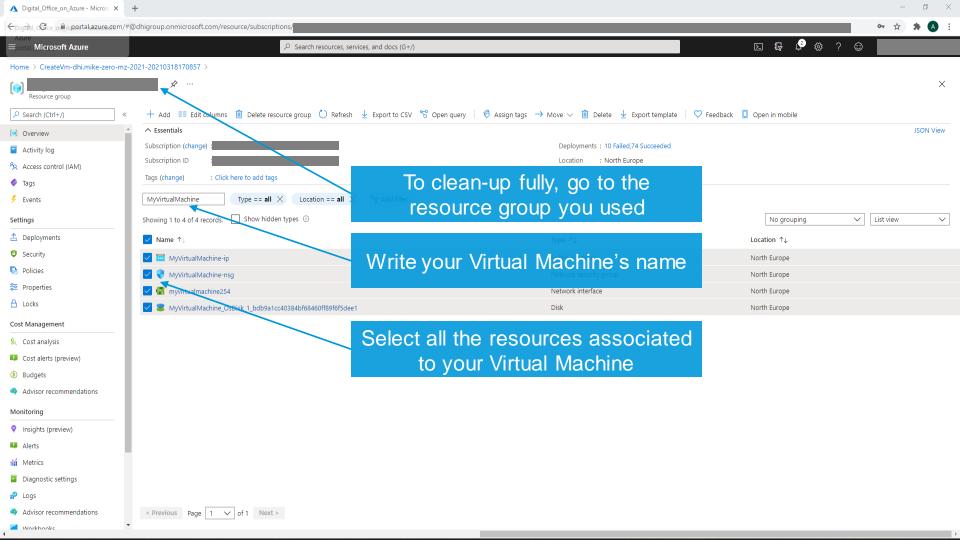


Setup Layers and symbols Results

🔥 MyVirtualMachine - Microsoft Az 🗙 🚽	+					-	o ×
← → C 🔒 portal.azure.com/#@	dhigroup.onmicrosoft.com/resource/su	ubscriptions/				<b>0-</b> Å	🗯 🔕 🗄
≡ Microsoft Azure		℅ Search resources, services, and docs (G+/)			E 📭 🗘 🏟 ? 😊		
Home > CreateVm-dhi.mike-plus-mike-	plus-2021-20210319114841 >						
MyVirtualMachine	\$						×
	🖋 Connect ▷ Start 🤇 Restart	🗌 Stop 🞉 Capture 🧻 Delete 💍 Refresh 🔋 Open in mobile					
Overview	∧ Essentials					JSC	ON View
Activity log	Resource group (change) :	Op	perating system	: Windows (Wi	ndows Server 2019 Datacenter)		
Access control (IAM)	Status : Running	Siz		: Standard D2 v	v2 (2 vcpus, 7 GiB memory)		
🗳 Tags	Location : North Euro Subscription (change) :		iblic IP address rtual network/subne	: at :			
Diagnose and solve problems	Subscription ID :		VS name	: Configure			
Settings	Tags (change) : Click here	to add tags					
Networking		Exit the Remote Desktop and g					
🖉 Connect	Properties Monitoring Capa						
8 Disks	Virtual machine	back to your Azure Portal VM	8 Networking				
👤 Size	Computer name	dashboard. Now click 'Delete' t	Public IP addres				
Security	Operating system		Public IP addres	ss (IPv6)	-		
Advisor recommendations	Publisher Offer	permanently delete the instanc	e addre	ss (IPv6)	-		
Extensions	Plan	and stop Azure billing costs.		/subnet			
🐔 Continuous delivery	VM generation	V1	DNS name		Configure		
Availability + scaling	Agent status	Confirm by clicking 'OK', but	The second				
Configuration	Agent version	remember to download any	Size		Standard D2 v2		
🐍 Identity	Host group Host		vCPUs		2		
Properties	Proximity placement group	data/results before doing so!	RAM		7 GiB		
🔒 Locks	Colocation status		R Disk				
Operations	Availability + scaling		OS disk		MyVirtualMachine_OsDisk_1_d2d6062d68a040d790e90d6044272	7f4	
✓ Bastion	Availability zone		Azure disk encry	yption	Not enabled		
🔇 Auto-shutdown	Scale Set		Ephemeral OS d	lisk	N/A		
🔗 Backup	Extensions		Data disks		0		
🥔 Disaster recovery 🗸 🗸	Extensions		Azure Spot				,

📮 Azure Spot

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🔥 Delete Resources - Microsoft Azu 🗙	+				– o ×
← → C 🏻 portal.azure.com/	#@dhigroup.onmicrosoft.com/resource/subscriptions/				•• 🖈 🔺 💧 🗄
	∠ Search resources, s	ervices, and docs (G+/)		de la companya	
Home > CreateVm-dhi.mike-zero-m	z-2021-20210318170857 >			Delete Resources Deleting 4 resources	×
Resource group	K + Add	h 🞍 Export to CSV 🔗 Open query 🛛 🧔 4	Assign tags $\rightarrow$ Move $\lor$ 📋 Delete 🞍 Export template	Do you want to delete all the selection of the selection	oted resources?
Overview     Activity log	Subscription ID		Deployments : 10 Failed,74 Succeeded	Warning! Deleting the selected reso will permanently delete the selected resources and contents. If you are n resource dependencies, please go to blade to perform the delete operation	d resources, their related iot sure about the selected o individual resource type
<ul> <li>Access control (IAM)</li> <li>Tags</li> </ul>	Tags (change) : Click here to add tags			This action cannot be undone. Do y	ou want to continue?
Events Settings	MyVirtualMachine     Type == all     Location == all       Showing 1 to 4 of 4 records.     Show hidden types ①	imes " Add filter		Confirm delete ① yes	~
☆ Deployments	Name ↑↓		туре ↑↓	Selected resources	
Security	🗹 📅 MyVirtualMachine-ip	Click Delete	Public IP address	MyVirtualMachine-ip (Public IP add	
Policies	🗹 🌻 MyVirtualMachine-nsg		Network security group	MyVirtualMachine-nsg (Network se	
🔁 Properties	🗹 🌇 myvirtualmachine254		Network interface	myvirtualmachine254 (Network inte	
🔒 Locks	S MyVirtualMachine_OsDisk_1_bdb9a1cc40384bf68460ff89f6f5d	e1	Disk	MyVirtualMachine_OsDisk_1_bdb9a	1cc40384bf6846 🗙
Cost Management		Type 'yes'			
💲 Cost analysis		iypo yoo			
Cost alerts (preview)					
3 Budgets					
Advisor recommendations		Click Delete			
Monitoring		CIICK Delete			
Insights (preview)					
💵 Alerts					
🚮 Metrics					
Diagnostic settings		All done!			
₽ Logs					
Advisor recommendations	< Previous Page 1 V of 1 Next >				
M	•			Delete Cancel	

# Thank you!

