Make an Azure Virtual machine: Step by step instructions

Create an azure account if you don't already have one at https://azure.microsoft.com/en-us/free/

Save the username and password either in your browser or on paper, etc. You'll need them shortly.

Go to <u>https://azure.microsoft.com</u>. You should see the following website.



data and AI services.

Azure has more than 100 services with great end-to-end tools to make you successful.

Develop and deploy where you want, with the only consistent hybrid cloud on the market. Extend Azure on-premises with Azure Stack. Join startups, governments, and 90% of Fortune 500 businesses who run on the Microsoft Cloud today.

Click on "Portal" in the upper right.



Click "Virtual machines" on the panel on the left. A new page opens:

		≪ Home > Virtua	l machines			r an				
Н	Create a resource	Virtual mae	chines (Default Directory)							* ×
	All services	+ Add ≣≣	Edit columns 🛛 🛛 Ref	resh 🛛 🌢 Assign Tags 🕨 Start 🤇	Restart 🔳 Stop	🛙 Delete 🚝 Services				
- *		Subscriptions:	Free Trial							
	Dashboard	Filter by name		All resource groups	 All types 	~ 4	All locations	✓ No grouping		\sim
		1 of 1 items sel	ected							
	All resources	✓ NAME		TYPE 🔨	STATUS	RESOURCE GROUP	LOCATION TO	MAINTENANCE	SUBSCRIPTION	
6	Resource groups	🗸 🎑 AZ	2	Virtual machine	Running	RG1	East US	Not scheduled	Free Trial	
4	Quickstart Center									
۲	App Services									
4	Function Apps									
	SQL databases									
:	Azure Cosmos DB									

If you have any machines you have created that do not work, check the box next to the name and delete it. Once your machines are deleted, your page will look like



Click on "Create virtual machine" at the bottom center, bringing up the page (shown partially):

Compute					* 🗖	×
T Filter						
✓ Search Corr	pute]
Recommended	ł				More	
	🧠 redha	t 🧿	SQL			Ш
Windows Serve	er Red Hat Enterprise Linux	Ubuntu Server	SQL Server 2017 Enterprise	Virtual machine scale set	Container Service	
Microsoft	RedHat	Canonical	Microsoft	Microsoft	Microsoft	
Virtual Machin	e Images				More	

Do not choose any of the big icons. Instead, type the following into the search box:

Windows 10 Pro, Version 1803

Virtual machines « 🖈 🗙 tbkepleroutlook (Default Directory)	Compute		* 🗆 ×
📥 Add 🛛 🗮 Edit columns 🛛 😶 More	T Filter		
Filter by name	P Windows 10 Pro, Version 1802		×
NAME T	Results		
	NAME	PUBLISHER	CATEGORY
	Windows 10 Pro, Version 1803	Microsoft	Virtual Machine Images
	Windows 10 Pro N, Version 1803	Microsoft	Virtual Machine Images
No virtual machines to display			
Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.			

Select Windows 10 Pro N, Version 1803. A new panel will open on the right:

×	Windows 10 Pro N, Version 1803 🖈 🗖
]	This software is provided by Microsoft. Use of this software in Microsoft Azure is not permitted except under a volume licensing agreement with Microsoft. By clicking Create, I acknowledge that I or the company I work for is licensed to use this software under a volume licensing agreement with Microsoft and that the right to use it will be subject to that agreement.
	Windows 10 Professional N and Windows 10 Pro for Workstations N editions include the same functionality as Windows 10 Professional, except that it does not include certain media related technologies (Windows Media Player, Camera, Music, Movies and TV) and does not include the Skype app.
-	Legal Terms
	By clicking the Create button, I acknowledge that I am getting this software from Microsoft and that the legal terms of Microsoft apply to it. Microsoft does not provide rights for third-party software. Also see the privacy statement from Microsoft.
-	
	Select a deployment model 0
	Resource Manager
	Create

Click the "Create" button.

Fill out the "Basics" form as shown below. The Name is a name you make up for your virtual machine. Anything will do. Choose "SSD" for the VM disk type. Enter the username and password you used for setting up the Azure account. Subscription: Free Trial. Resource Group: Create New and give it any name you desire. My form below shows a name I already had.

1 Basics Configure basic settings Name AZ1 VM disk type • SSD Username tbkepler Sourmary Windows 10 Pro N, Version 1803 Subscription Free Trial Name AZ1 VM disk type • SSD Username tbkepler Password Subscription Free Trial 	✓
2 Size Choose virtual machine size VM disk type • 3 Settings Configure optional features Vusername (tbkepler 4 Summary Windows 10 Pro N, Version 1803 Confirm password Subscription Free Trial Subscription	\sim
3 Settings Configure optional features 4 Summary Windows 10 Pro N, Version 1803 Confirm password Confirm password Subscription Free Trial	
4 Summary > Windows 10 Pro N, Version 1803 > Subscription Free Trial	
Free Trial	~
* Resource group	\sim
Create new Use existing RG1	$\mathbf{\vee}$
* Location East US	~

Click OK.

«	Home 🔸 Virtual m	nachines 🔸 🤇	Compute > Windo	ws 10 Pro N, Versio	in 1803 🔸 Create v	irtual machine > Choose a size							
	machine	×	Choose Browse the a	a size vailable sizes and ti	neir features								×
			Search			Compute type		Disk type			vCPUs		
		~				Show all compute types	~	SSD only		~	1	128	
~			RECOMME *	SKU 🗈	TYPE 🗘	COMPUTE 🕬 VCPUS	GB RAM	JATA DIS 1	MAX IOPS	LOCAL SSD	PREMIUM 13 ADDITION	USD/MON	
	virtual machine size	>	Available										•
				B1s	Standard	General purpose 1	1	2	800	4 GB	SSD	\$8.04	
	e optional features	>		B1ms	Standard	General purpose 1	2	2	1600	4 GB	SSD	\$15.40	
				B2s	Standard	General purpose 2	4	4	3200	8 GB	SSD	\$31.25	
н	y s 10 Pro N. Version 180	>		B2ms	Standard	General purpose 2	8	4	4800	16 GB	SSD	\$62.50	
	3 10 110 14, Version 100			B4ms	Standard	General purpose 4	16	8	7200	32 GB	SSD	\$124.25	
				D2s_v3	Standard	General purpose 2	8	4	4000	16 GB	SSD	\$71.42	
				D4s_v3	Standard	General purpose 4	16	8	8000	32 GB	SSD	\$142.85	
				E2s_v3	Standard	Memory optimi 2	16	4	4000	32 GB	SSD	\$98.95	
Н				E4s_v3	Standard	Memory optimi 4	32	8	8000	64 GB	SSD	\$197.90	-
			Prices presen Recommend	nted are estimates led sizes are deter	in your local curre mined by the publ	ncy that include only Azure infrast isher of the selected image based	ructure costs and on hardware and	any discounts for I software require	the subscription a ments.	and location. The	prices don't include any applicable	software costs.	

Choose General purpose 4 on the 5th line (B4ms) and click Select.

On the next form go to "Select public inbound ports". Select RDP (3389). Leave everything else at its defaults and click OK.



The summary appears. Check the "terms of use" box and click Create.



The waiting for deployment page opens and indicates the deployment is in progress. This process may go on for several minutes.



Eventually it will finish (it took me about 15 minutes) and the "Submitting" icon becomes a "Running" icon.

My Dashbc	ard ~	+ New dashboard	⊼ Upload	⊻ Download	🖉 Edit	🗘 Share	✓ Full screen	ට් Clone	🗊 Delete
AZ1									
Running	<u>•</u>								

Click on that icon and it will take you to your machine control panel, which looks, in part like this:

Home > AZ1									
AZ1 Virtual machine									
	🏎 Connect 🗼 Start 🤍 Restart 🔳 Stop 🔯 Capture 🕨	\rightarrow Move $\hat{\blacksquare}$ Delete \circlearrowright Refresh							
Overview	Resource group (change) RG1 Status Running	Computer name AZ1 Operating system Windows							
Activity log Access control (IAM)	Location East US Subscription (change)	Size Standard B4ms (4 vcpus, 16 GB memory) Public IP address							
🖉 Tags	Free Trial Subscription ID	23.96.2.133 Virtual network/subnet							
X Diagnose and solve problems	аррои294-8689-4617-9801-340bfcd58412	NG1-vnet/oefault DNS name Configure							
SETTINGS	Tags (change)								
A Networking	Click here to add tags								
😕 Disks									
👤 Size									
Security	CPU (average)	Network (total)							
Extensions	100%	12068							
Continuous delivery (Preview)	80%	100kB							
Availability set	60%	80k8 60k8							
Configuration	40%	40kB							

Click on "Connect" just below the black banner to open the connection panel



For windows users, you can probably just click on "Download RDP File", but for mac users, it may be more reliable to copy the IP address (here: 23.96.2.133) and the port number. You may not need the latter.

Mac users will have installed a windows remote desktop app. I have been successful with "Microsoft Remote Desktop". On the mac desktop (or whatever its called), the icon says "RD client". Open that app. In the upper right corner, touch the plus sign to add a new connection. An "add new" dialog opens. Select "Desktop".

For PC name enter the IP address you copied down from above, e.g., 23.96.2.133 in my case).

Leave the rest as is and click "save". It should now have an icon in the app. Touch that icon to log into the virtual machine with the credentials you saved in step one.