# Installing MedICI and CodaLab

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This document explains how to install CodaLab and is an alternative to the more detailed user manual on the CodaLab Wiki. CodaLab is under active development, so the procedures here are subject to change.

Your first step is to decide which virtual machine or computer you want to install MedICI.

# Creating a Virtual Machine on Microsoft Azure\Ubuntu Server 18.04 LTS

This tutorial focuses on Ubuntu-based installations on Azure, although instructions on how to do this on Microsoft and Apple operating systems and in AWS are also included.

Create a VM in Azure or use a computer with Ubuntu Server 18.04 installed. Once you have an Azure account, go to the Azure home page. A sidebar with many options or categories appears. You can create either a resource or a resource group and then add resources into it. This tutorial uses the resource group method to demonstrate good organizational practices.

Microsoft Azure	م	Search resources, services, and docs	∑ 67 Q Ø ?	😊 DEFAULT DIRECTORY
	Home > Resource groups			
	Resource groups			Documentation 🛙 🖈 >
👇 Home	Add = Edit columns C) Refeate	east to CEV		
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* FAVORITES	Filter by name	All locations	V All tags	✓ No grouping ✓
Resource groups	32 items			
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B Recent		Pay-As-You-Go	East US	*
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Virtual machines (classic)		Pay-As-You-Go	East US	
Virtual machines		Pay-As-You-Go	East US	
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Subscriptions		Pay-As-You-Go	East US	
A Cloud services (classic)		Pay-As-You-Go	East US	
💩 Azura Activa Diractory		Pay-As-You-Go	East US	
Monitor		Pay-As-You-Go	East US	
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Cest Menonement - Dillion		Pay-As-You-Go	East US	
- continuingenterit + billing		Pav-As-You-Go	East Asia	
🛞 llala i summant				

2. Name the resource group and then decide how you will pay for this service.

- 3. Click Review + create.
- 4. Go to the resource group and add a VM:

Microsoft Azure		P Search resources, services, and docs 🛛 💀 🖓 🛞 ? 🐵	
«	Home > Tutorials		
+ Create a resource	Tutorials		* ×
🛧 Home	«	📥 Add 💷 Edit columns 👘 Delete resource group. 🚺 Pafresh 🔿 Meyes 🖟 Evolution (SV 🗌 🌒 Assign tang 👘 Delete 🚽	Export template
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i ⊟ All services	( Overview	Subscription (change) : Pay-As-You-Go Deployments : No deployments	
🛨 FAVORITES	<ul> <li>Activity log</li> </ul>	Subscription ID 2007370-0317-4703-4001-03743404440	
🜍 Resource groups	Access control (IAM)	Tags (change) : Click here to add tags	
III resources	🛷 Tags		
B Recent	🗲 Events	Filter by name All types V All locations V No grouping V	
🔇 App Services	Settings	0 items Show hidden types 🛛	
Q Virtual machines (classic)	📣 Quickstart	NAME TO TYPE TO LOCATION TO	
Virtual machines	Deployments	No results.	÷
🗟 SQL databases	Policies		
💡 Subscriptions	Properties		
Cloud services (classic)	🔒 Locks		
Azure Active Directory	🖳 Export template		
Monitor	Cost Management		
Security Center	to Cost analysis	No resources to display	
O Cost Management + Billing	S Cost alerts	Try changing your titlers if you don't see what you're looking for. Learn more 🖾	
😫 Help + support	Budgets	Create resources	
🔷 Advisor	<ul> <li>Advisor recommendations</li> </ul>		

- 5. Choose Ubuntu Server 18.04 LTS.
- The VM creation page appears.
- 6. Choose the following settings.

Microsoft Azure			D	Ģ	Ç <b>1</b>	٢	?	٢
«	Home > Tutorials > Marketplace > Ub	untu Server 18.04 LTS > Create a virtual machine						
+ Create a resource	Create a virtual machine							
🛧 Home								
료 Dashboard	Basics Disks Networking Mai	nagement Advanced Tags Review + create						
E All services	Create a virtual machine that runs Linux c	r Windows. Select an image from Azure marketplace or use your own customized						
— 🛨 FAVORITES ————————————————————————————————————	image. Complete the Pasics tab then Review + c	resta to provision a virtual machina with default parameters or review each tab for full						
🜍 Resource groups	customization.	eace to provision a virtual machine with denaut parameters of review each tab for full						
All resources	Looking for classic VMs? Create VM from	n Azure Marketplace						
🕒 Recent	Project details							
S App Services	Select the subscription to manage deploy your resources.	ed resources and costs. Use resource groups like folders to organize and manage all						
🧕 Virtual machines (classic)	* Subscription 🚯	Pay-As-You-Go 🗸						
Virtual machines	* Resource group @	Tutoriale						
🥫 SQL databases	nasource group 😈	Create new						
Subscriptions	Instance details							
Cloud services (classic)	Virtual machine name	MediCL-Codal ab Marter						
🚸 Azure Active Directory								
Monitor	• Region 📵	(US) East US V						
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0 Cost Management + Billing	* Image 0	Ubuntu Server 18.04 LTS 🗸 🗸						
😫 Help + support		Browse all public and private images						
🏟 Advisor	* Size 🕦	Standard D2s v3						
		Change size						
	Administrator account							
	Authentication type 🚯	Password      SSH public key						
	* Username 🚯	bbearce 🗸						
	* Password 🕢	······ ✓						
	* Confirm password 💿	······ ✓						
	INBOUND PORT RULES							
	Select which virtual machine network por network access on the Networking tab.	ts are accessible from the public internet. You can specify more limited or granular						
	* Public inbound ports ()	None Allow selected ports						
	Select inbound ports	Select one or more ports						
	Review + create < P	revious Next : Disks >						

7. Now click **Review + create**. Review the options and then click **create**. Azure starts creating the VM and then finishes, as shown in the following two images.



IP Address Config

1. Navigate to the VM by clicking Go to resource. Go to the resources home page to get the public IP address so that you can access the machine.

Microsoft Azure		$\wp$ Search resources, services, and door	а	5 <b>G</b> q	@?©		0
«	Home > MedICI-CodaLab-Master						
+ Create a resource	MedICI-CodaLab-Master					\$ × \$\$	
🚓 Home	<ul> <li>virtual machine</li> <li>4</li> </ul>	na i bai dai i	Mar	<b>b a</b> <i>c</i> - i			
🛄 Dashboard	P Search (Ctrl+/)	Connect 🖝 Start 🤍 Restart	Stop 🧑 Capture 🔟 Delete 🕻	Retresh			
i ∃ All services	Overview	Resource group (change) : Tutorials		Computer name	: MedICI-CodaLab-Ma	ster	
- 🛨 FAVORITES	Activity log	Location : Fast US		Operating system	: Standard D2s v3 (2 vr	rous 8 GiB memory)	
Resource groups	🝰 Access control (IAM)	Subscription (change) : Pay-As-You-Gi	0	Ephemeral OS disk	: N/A	par, o dia memory)	
All resources	🛷 Tags	Subscription ID : 2cfc757c-0917	7-47c6-abd1-b57e54ca4fe0	Public IP address	: 13.92.241.241		
Recent	X Diagnose and solve problems			Private IP address	: 10.0.9.4		
🔇 App Services	Settings			Virtual network/subr	et : Tutorials-vnet/default		
🧕 Virtual machines (classic)	A Networking			DNS name	: Configure		
2 Sot the ID addre	on notting to Statio	Maka a note of th	a IR address. Cl	ok Configu	<b>ro</b> to odit t	ho DNS cottings	Click Sava
2. Set the IF addre	ss setting to static		ie if audiess. Ci	ck conngu		The DING Settings	
Public IP address	o-Master-ip - Configuration	1					×
	« 🕞 Save 🗙 Discar	d					
Overview							
Activity log	The associa	ted virtual machine 'MedICI-CodaLab-Mas	ster' may be rebooted. Click here to le	arn more.			
🝰 Access control (IAM)							
🥒 Tags	Assignment	-41-					
*	Upynamic Upynamic	auc					
Settings	IP address ①						
🚔 Configuration	13.32.241.241						
Properties	Idle timeout (minutes	) 0				4	
Locks	DNIS name label (enti	anal) A					
🖳 Export template	Divis name laber (opu	onai) 😈					
Monitoring	Alias record sets					.eastus.cloudapp.azure.com	
Diagnostic settings	Want to closely track	this Public IP address? Create an alias n	ecord in Azure DNS. Learn more.				
in Logs	+ Create alias record						
Support + troubleshooting	SUBSCRIPTION	DNS ZONE	NAME	т	(PE	m	
New support request	No results.						

## SSH Port

We need to configure the machine to be ssh accessible (port 22) and open http (port 80) (https://medium.com/techinpieces/practical-azure-how-to-enablessh-on-azure-vm-84d8fba8103e). Go to the VM and click *Networking*. On the right find the button *Add inbound port rule*. Change *Destination port ranges* to 22, *Protocol* to TCP, *Priority* to 330, and *Name* to anything you'd like:

Enable_22 MedICI-CodaLab-Master-nsg	
🔚 Save 🗙 Discard 🥜 Basic 🝈 Delete	
* Source 🔀	
Any	$\sim$
* Source port ranges 🚯	
×	
* Destination 🕦	
Any	$\sim$
* Destination port ranges <b>6</b>	
22	
Any     TCP     UDP       * Action	
* Priority 🕤	
330	
* Name	
Enable_22	
Description	
SSH port 22 is exposed to the Internet. This is only recommended for testing. For product environments, we recommend using a VPN or private connection.	ion

Once you have that let's open a terminal and get inside the machine by typing ssh < user > @ < public IP address > .

```
∷~$ ssh
                                                                   1
's password:
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.18.0-1024-azure x86_64)
 * Documentation: https://help.ubuntu.com
 *
   Management:
                       https://landscape.canonical.com
 *
                       https://ubuntu.com/advantage
   Support:
  System information as of Wed Jul 17 20:34:49 UTC 2019
  System load: 0.0
Usage of /: 4.1% of 28.90GB
                                         Processes:
                                                                   122
                                         Users logged in:
  Memory usage: 4%
Swap usage: 0%
                                         IP address for eth0: 10.0.9.4
 * MicroK8s 1.15 is out! Thanks to all 40 contributors, you get the latest
greatest upstream Kubernetes in a single package.
      https://github.com/ubuntu/microk8s
2 packages can be updated.
2 updates are security updates.
Last login: Wed Jul 17 20:34:37 2019 from 132.183.4.6
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
                         :~$
```

If you get a message regarding encryption keys, enter y/yes as this is the first time signing into this machine.

## HTTP Port

On the right find the button Add inbound port rule. Change the Destination port ranges to 80, Protocol to TCP, Priority to 300, and Name to anything you like.

		<b>4</b> D 1	÷.				
- Save	👗 Discard 🧃	Basic	<u> </u>	Delete			
* Source 🌘	)					 	
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* Source p	ort ranges 🚯						
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* Action							
Allow	Deny						
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300	,					 	
500					 	 	
* Name							
Enable_H1	TP						
Descriptio	1						
Description					 	 	

This step is necessary to access the site once you deploy it.

## Installing CodaLab

CodaLab has documentation regarding their preferred installation configuration. The two best sources are the following:

- https://github.com/codalab/codalab-competitions/wiki
- https://codalab-competitions.readthedocs.io/en/latest/

The base code for CodaLab can be set up on different cloud providers (Google Cloud, AWS, Azure). The CodaLab team has made Docker images for AWS and Google cloud that in theory should just run once some settings are established, but require a good working knowledge of Docker. For the purposes of MedICI, it is recommended to follow the "Configure CodaLab from scratch (harder documentation)" procedure found in the first link above.

## Step 1 - Install Docker and Docker-Compose

Before we clone GitHub, we must install docker and docker-compose. Follow the Docker installation instructions to install on Ubuntu.

### Docker

The following are the commands for a basic installation of Docker on Ubuntu.

\$ sudo apt-get remove docker docker-engine docker.io containerd runc

\$ sudo apt-get update

```
$ sudo apt-get install \
    apt-transport-https \
    ca-certificates \
    curl \
    gnupg-agent \
    software-properties-common
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
$ sudo apt-key fingerprint 0EBFCD88
$ sudo add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) \
    stable"
$ sudo apt-get update
$ sudo apt-get install docker-ce docker-ce-cli containerd.io
$ sudo docker run hello-world
```

This creates the following result.



Now if we run the docker command, we see the options list that tells us how to use the command, which verifies that Docker is installed and we can use it.

#### **Docker-Compose**

Check to see if docker-compose is installed from the terminal on your new virtual machine. If not, rather than use sudo apt install docker-compose, the CodaLab documentation from Configure CodaLab from scratch (harder documentation) says to install it from Docker's website. Use the following command.

sudo curl -L "https://github.com/docker/compose/releases/download/1.25.5/docker-compose-\$(uname -s)-\$(uname m)" -o /usr/local/bin/docker-compose

bbea	arce@Me	dICI	-CodaLab-	Mas	ter:~\$	sudo c	url -L	"https:/	/github.co	om/docker	/compose	/releases/downlo	а
d/1	.24.1/d	locker	-compose	-\$(	uname ·	-s)-\$(u	name -r	n)" -o /u	sr/local/l	oin/docke	r - compos	e	
%	Total	%	Received	%	Xferd	Averag	e Speed	d Time	Time	Time	Current		
						Dload	Upload	d Total	Spent	Left	Speed		
100	617	Θ	617	Θ	Θ	3085	Θ	::	::	:	3085		
100	15.4M	100	15.4M	0	0	37.8M	0	::	::	::	37.8M		
bbe	arce@Me	dICI	-CodaLab-I	Mas	ter:~\$								

Now change the permissions in /usr/local/bin/docker-compose to use docker-compose:

sudo chmod +x /usr/local/bin/docker-compose

### bearce@MedICI-CodaLab-Master:~\$ sudo chmod +x /usr/local/bin/docker-compose bearce@MedICI-CodaLab-Master:~\$

Run docker-compose in the terminal window. The options list appears that tells us how to use this command. This verifies that docker-compose is installed and ready to use.

## Step 2 - Get the Source Code

The latest code is located in the codalab-competitions folder in the codalab repository (repo) in GitHub. Both sets of instructions direct you to clone this repository locally to the virtual machine. Since we will be customizing our installation, fork the repository and do the following:

- 1. Pull the latest changes from the master repo https://github.com/codalab/codalab-competitions into your own repo periodically to make sure you have the latest base code. (repo: https://github.com/QTIM-Lab/MedICI/). If you need help doing this on your own, see forking a repo, but you can just clone the QTIM-Lab/MedICI repo.
- 2. Store your customizations on GitHub so that you can clone from this repo for future projects.
- 3. Clone the MedICI project. This follows CodaLabs instructions but with our GitHub repo instead. Below is a picture of the commands I've executed from "Configure CodaLab from scratch (harder documentation)". The green circles represent once inside the "src" folder, the changes that are not in the raw CodaLab github repo. This is the start of our customizations



Push these changes into your branch. At this point the app should be ready to deploy.

Run & docker compose up -d. You may encounter the following be ready to deploy. bbearce@MedICI-CodaLab-Master:~/src/MedICIS docker-compose up -d MARNING: The SSL\_CERTIFICATE variable is not set. Defaulting to a blank string. WARNING: The SSL\_CERTIFICATE\_KEY variable is not set. Defaulting to a blank string. EAROF: Couldn't connect to Docker daemon at http+docker://localhost - is it running?

If it's at a non-standard location, specify the URL with the DOCKER HOST environment variable

The solution to this error is to run with sudo or add yourself to the docker group: \$ sudo docker-compose up -d

Or https://docs.docker.com/install/linux/linux-postinstall/

- o \$ sudo groupadd docker (this may be done already)
- $^{\circ}$  \$ sudo usermod -aG docker \$USER (now restart the VM)
- ° Run \$ docker-compose up -d
- The flag '-d' means to run in detached mode. If you don't use it, you will notice your command prompt is in a live feed mode telling you everything that is going on with this Docker.

### Step 3 - Tweak the .env file and Azure Storage

The following documentation explains this step: https://codalab-competitions.readthedocs.io/en/latest/

#### **Create a Storage Account**

Below is the blob storage section for Azure:

You may sign up for an Azure account, then follow the directions below. You do not have to do this if you've already set up S3.

- 1. Log on to the Azure Portal.
- 2. From the Dashboard, click Storage accounts on the left.
- 3. Click Add at the top of the page to create a new storage account.
- 4. If you don't already have a subscription, create one now. The free trial requires a credit card, and **deletes all your storage containers after 90** days, unless you upgrade to a different plan such as 'Pay as You Go'.
- 5. Select the Classic storage account. Refer to the following image for settings.

Home > Storage accounts >	medici - Blob	s			
Ten medici - Blobs					
, Search (Ctrl+/)	«	+ Container	🕐 Refresh 🛛 🛅 Delete	Change access level	
Settings	^	Storage account:	medic		
A			ners by prefix		
Geo-replication		NAME	LAST MODIFIED	PUBLIC ACCESS LEVEL	LEASE STATE
S CORS	- 1	bundles	7/31/2019, 1:30:16 PM	Private	Available
Configuration		public	7/31/2019, 1:30:34 PM	Blob	Available
Encryption					

- 6. In the dashboard, click All Resources/All Subscriptions and then click your username. Click Access Keys and copy your account name and access key to .env under AZURE\_ACCOUNT\_NAME and AZURE\_ACCOUNT\_KEY.
- 7. Within that same user account, click on Containers and Add a new container.
- 8. Create a new container named "bundles". Set the Access to "Private".
- 9. Add another container named "public". Set the Access to "Public Blob".
- 10. Make sure the DEFAULT\_FILE\_STORAGE .env option is set to codalab.azure\_storage.AzureStorage.

The CodaLab documentation add these settings (https://s	on leaves one final step of stackoverflow.com/questic	ut. We NEED to enable ons/50785255/azure-sto	CORS. Click CORS in t rage-got-403-url-cors-n	the image in the previou ot-enabled-or-no-match	us procedure and hing-rule-found-for-thi):
medici - CORS					
P Search (Ctrl+/)	Save 🗙 Discard				
<ul> <li>Overview</li> <li>Activity log</li> <li>Access control (IAM)</li> <li>Tags</li> <li>Diagnose and solve problems</li> <li>Data transfer</li> <li>Events</li> </ul>	CORS is an HTTP feature that enable policy that prevents a web page fro You can set CORS rules individually the service from a different domain Learn more Blob service File service Que	es a web application running under on m calling APIs in a different domain. Cl for each of the storage services (i.e. bi will be evaluated to determine whethe eue service Table service	e domain to access resources in anoth DRS provides a secure way to allow on lob, file, queue, table). Once you set th r it is allowed according to the rules yo	er domain. Web browsers implement e domain (the origin domain) to call J e CORS rules for the service, then a pr u have specified.	a security restriction known as same-ori VPIs in another domain. operly authenticated request made aga
🚰 Storage Explorer (preview)	ALLOWED ORIGINS	ALLOWED METHODS	ALLOWED HEADERS	EXPOSED HEADERS	MAX AGE
Settings	· · · · · · · · · · · · · · · · · · ·	/ 8 selected A	· · ·	· · ·	200 🗸
Access keys		✓ GET			0
Geo-replication		HEAD			
⊗ cors		MERGE			
Configuration		OPTIONS			
Encryption		V PUT			
o <sup>©</sup> Shared access signature		PATCH			

If you don't, uploading a competition will present a CORS errors in the browser:

$\sim$	Create Competition	
	To create a competition, upload a bundle with the definition of the new competition. Upload definition	
	There was an error uploading the file. Please try again.	
	Newsletter Join us on Github for contact & bug report	rts About Privacy and Term
R V filter output	2064. () She room, Hi Leuraniere () wearan 1.4 wearan G zonele & vocesonch	1
tron Warnings Logs IV/s Debug CSS 3	VR Reports	
A Request to access cookle or store	XHR Repertsi ge on "https://www.google-analytics.com/analytics.js" was blocked because it came from a tracker and content blocking is enabled. <u>licern Morel</u>	
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Crown Warmhow Love Infa Cethor         CSS 0           ▲ Request to access cookie or stora is enabled.         Cross-Origin Request Blocked: The header "Access-Control-Allow-Group	DHR Reperts ge on "https://www.google-analytics.com/analytics.js" was blocked because it came from a tracker and content blocking is enabled. <u>ikearn Revel</u> ge on "https://www.google-analytics.com/r/collect?w=16_w=176a=6164_tid=08-42847758-26_gid=887185758_15658259246_r=362=471258718* was blocked because it came from a 'Same Orgin Policy distlows reading the remote resource at https://medici.blob.core.windows.net/bundles/competition/upL=4TE=6se=0289-18-64T1743484345556comp=block is "Assission". <u>ikearn Revel</u>	tracker and content blockin AGDIockid=MDAwMDAr. (Reason:
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#### Once applied, uploading works:

CodaLab	
$\sim$	Create Competition
	To create a competition, upload a bundle with the definition of the new competition.
	Congratulations! Your new competition is ready to view. You can also manage it from your CodaLab dashboard.

## Adding a Custom Logo

To create a custom logo, follow the Codalab instructions but note that you must log in to the database as the super user to use the customizer module. Django doesn't have a super user by default, so you must create it. To do so, create a secure connection to the virtual machine that hosts your site and run the following command.

\$ docker exec -it django python manage.py createsuperuser

bbearce@MedICI-CodaLab-Master:~/src/MedICI\$ docker exec -it django python manage .py createsuperuser /usr/local/lib/python2.7/site-packages/django\_extensions/db/fields/\_\_init\_\_.py:4 25: DeprecationWarning: Django 1.8 features a native UUIDField, this UUIDField w ill be removed after Django 1.7 becomes unsupported. warnings.warn("Django 1.8 features a native UUIDField, this UUIDField will be removed after Django 1.7 becomes unsupported.", DeprecationWarning) Username: bbearce Error: That username is already taken. Username: admin Email address: bbearce@gmail.com Password: Password (again): Superuser created successfully. You can now return to the CodaLabs instructions and navigate to http://your-instance.com/customizer. Log in with your super user credentials and choose a new file as your logo.