Setup CluedIn Docker Desktop in Ubuntu in Azure
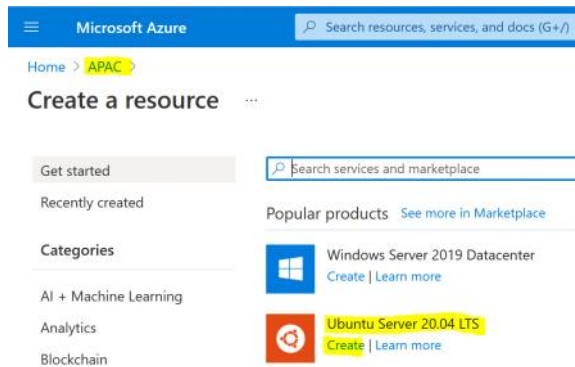
Monday, 10 January 2022   9:41 AM

Objective
To have docker environment that is suitable for CluedIn training.

Method

Setup Azure Ubuntu VM

Administrator account

Authentication type ⓘ   ◉ SSH public key

                                        ○ Password

> ⓘ Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username * ⓘ	azureuser	✓

SSH public key source	Use existing key stored in Azure	⌄

Stored Keys	UbuntuCluedInAPACDemo_key	⌄

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ   ○ None

                                        ◉ Allow selected ports

Select inbound ports *	SSH (22)	⌄

> ⚠ **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 to create rules to limit inbound traffic to known IP addresses.

Basics   **Disks**   Networking   Management   Advanced   Tags   Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. Learn more ⤤

Disk options

OS disk type * ⓘ	Standard SSD (locally-redundant storage)	⌄

If performance is critical for your workloads, choose Premium SSD disks for lower latency, higher IOPS and bandwidth, and bursting. Learn more

Encryption type *	(Default) Encryption at-rest with a platform-managed key	⌄

Enable Ultra Disk compatibility ⓘ   ☐

Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard_F16s_v2.

Network interface

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

Virtual network * ⓘ	APAC-vnet ▾
	Create new
Subnet * ⓘ	default (10.0.0.0/24) ▾
	Manage subnet configuration
Public IP ⓘ	(new) UbuntuCluedInAPACDemo2-ip ▾
	Create new
NIC network security group ⓘ	○ None
	● Basic
	○ Advanced
Public inbound ports * ⓘ	○ None
	● Allow selected ports
Select inbound ports *	SSH (22) ▾

⚠ **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 to create rules to limit inbound traffic to known IP addresses.

Accelerated networking ⓘ	☑

Rest are defaults then create it

✅ Your deployment is complete

🟠 Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f...   Start time: 11/22/2021, 10:14:53 PM
   Subscription: CluedIn   Correlation ID: 31daf7c7-6e98-4950-bbf3-f0eab75d05f9
   Resource group: APAC

⌄ **Deployment details** (Download)

⌃ **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**]   [Create another VM]

Setup Docker and Dependancies

Login as azureuser
(see Example putty settings - showing ssh tunnels)

The setups below will download helpful setup script from Implementation Tools github repo and execute it

The helpful setup script is here for you to examine prior to executing

azureuser@Ubuntu:~$

```
curl -O https://raw.githubusercontent.com/CluedIn-io/ImpTools/master/docker/ubuntu/docker-bootstrap.sh
chmod a+x docker-bootstrap.sh
sudo ./docker-bootstrap.sh
```

```
# run script again to check all installed

        azureuser@Ubuntu:~$ sudo ./docker-bootstrap.sh
        net-tools already installed

        docker already installed
        Docker version 20.10.11, build dea9396

        docker-compose already installed
        docker-compose version 1.29.2, build 5becea4c

        powershell already installed
        PowerShell 7.1.5
        finished!!!

# ensure any dependancies are installed from apt
sudo apt --fix-broken install
```

Sample Install Cluedin Session

follow https://cluedin-io.github.io/Home/

```
# clone the official CluedIn Home repo
git clone https://github.com/CluedIn-io/Home.git
cd Home
sudo docker login
        [your docker username here]
        [your docker password here]

# run powershell as root
sudo pwsh
.\cluedin.ps1 env latest -Tag latest
.\cluedin.ps1 check latest
        +----------------------------+
        | CluedIn - Pre-Flight Check |
        +----------------------------+
        Installed Applications
        [1/3] ☑ » PowerShell : 7.1.5 / Core
        [2/3] ☑ » Docker : 20.10.11 / linux
        [3/3] ☑ » Docker Compose : 1.29.2
        Available Ports
        [1/23] ☑ » CluedIn UI : 127.0.0.1.nip.io:9080
        [2/23] ☑ » CluedIn API : 127.0.0.1.nip.io:9000
        [3/23] ☑ » CluedIn Auth : 127.0.0.1.nip.io:9001
        [4/23] ☑ » CluedIn Jobs : 127.0.0.1.nip.io:9003
        [5/23] ☑ » CluedIn WebHooks : 127.0.0.1.nip.io:9006
        [6/23] ☑ » CluedIn Public : 127.0.0.1.nip.io:9007
        [7/23] ☑ » CluedIn Web Api : 127.0.0.1.nip.io:9008
        [8/23] ☑ » CluedIn Clean : 127.0.0.1.nip.io:9009
        [9/23] ☑ » CluedIn Annotation : 127.0.0.1.nip.io:9010
        [10/23] ☑ » CluedIn Datasource : 127.0.0.1.nip.io:9011
        [11/23] ☑ » CluedIn Submitter : 127.0.0.1.nip.io:9012
        [12/23] ☑ » CluedIn Gql : 127.0.0.1.nip.io:8888
        [13/23] ☑ » Neo4j Http : localhost:7474
        [14/23] ☑ » Neo4j Bolt : localhost:7687
        [15/23] ☑ » Elasticsearch Data : localhost:9200
        [16/23] ☑ » Elasticsearch Http : localhost:9300
        [17/23] ☑ » RabbitMQ Data : localhost:5672
        [18/23] ☑ » RabbitMQ Http : localhost:15672
        [19/23] ☑ » Redis : localhost:6379
        [20/23] ☑ » Seq UI : localhost:3200
        [21/23] ☑ » Seq Data : localhost:5341
        [22/23] ☑ » Sql Server : localhost:1433
        [23/23] ☑ » OpenRefine : localhost:3333
        Authentication
        [1/1] ☑ » Docker Registry : https://index.docker.io/v1/
        Environment
        [1/2] ☑ » Docker - Memory : 31.36gb available
        [2/2] ☑ » Docker - CPU : 16 cpus available

.\cluedin.ps1 up latest
```

PS /home/azureuser/Home> ./cluedin.ps1 status
+-----------------------+
| CluedIn - Status Check |
+-----------------------+
Can Connect
 [1/1] ☑ » Is Up : http://127.0.0.1.nip.io:9000/status
DataShards
 [1/6] ☑ » Blob
 [2/6] ☑ » Configuration
 [3/6] ☑ » Data
 [4/6] ☑ » Search
 [5/6] ☑ » Graph
 [6/6] ☑ » Metrics
Components
 [1/6] ☑ » Api
 [2/6] ☑ » Authentication

```
[3/6] ☑ » Crawling
[4/6] ☑ » Scheduling
[5/6] ☑ » ServiceBus
[6/6] ☑ » System
```

```
.\cluedin.ps1 stop latest
.\cluedin.ps1 start latest
.\cluedin.ps1 up latest

# poll until all up
./cluedin.ps1 status

# example org to create
./cluedin.ps1 createorg -name cluedin -pass AWXqwg12!
```
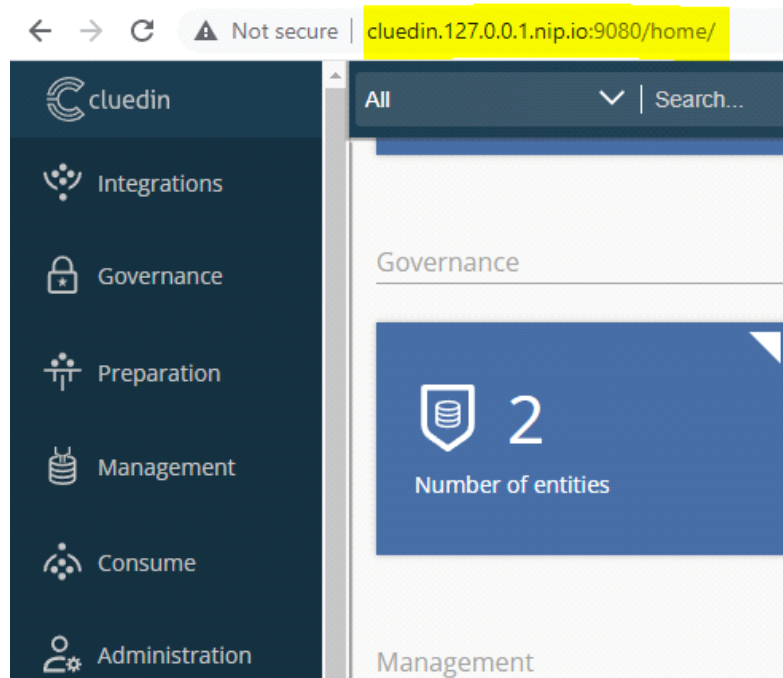
```
+-----------------------------+
| CluedIn - Create Organization |
+-----------------------------+

Active                     : True
ApplicationSubDomain       : cluedin
CustomerId                 :
ExternalAuthenticationId   :
EmailDomainName            : cluedin.com
Id                         : f49beb87-420b-4091-9e1f-9973649e50d0
IsEmailDomainSignupActivated : False
LastLoginTime              : 11/22/2021 12:50:52
Name                       : cluedin
Plan                       : 6749e7a5-da15-47e2-918b-6a385e288865
PlanEndDate                : 12/22/2021 12:50:52
PlanIsActive               : True
PlanStartDate              : 11/22/2021 12:50:52
RefreshTokenLifeTime       : 14400
SubscriptionId             :
```

```
Email: admin@cluedin.com
Password: AWXqwg12!
```

Test it with ssh tunnels

http://cluedin.127.0.0.1.nip.io:9080/

Example putty settings - showing ssh tunnels