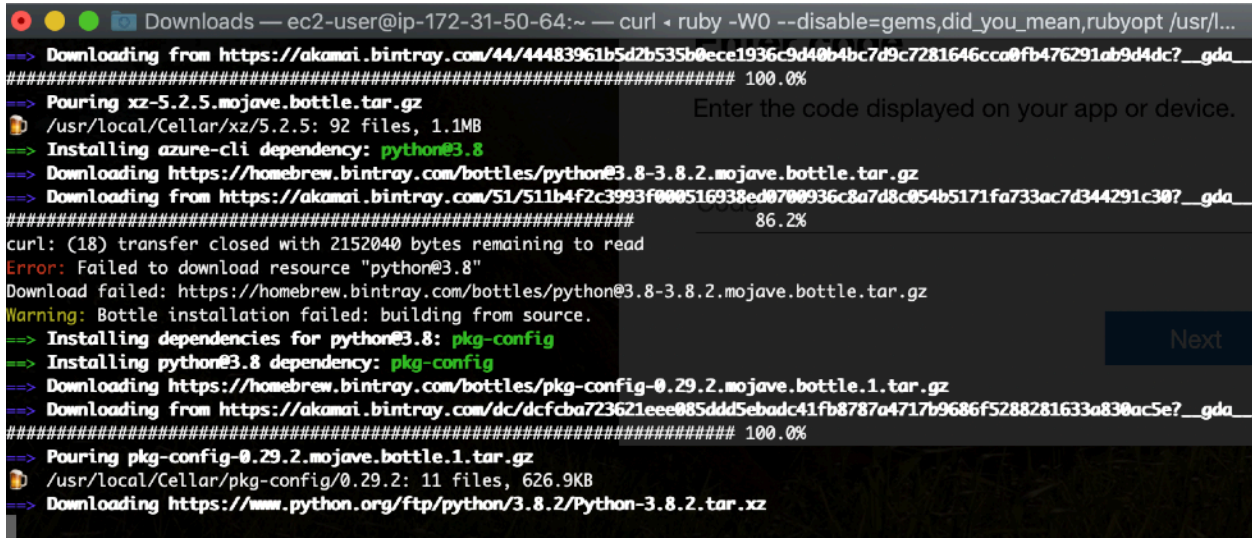


Step 1 - CONFIGURE YOUR ENVIRONMENT

Install Azure CLI (Homebrew)

- Inside the Mac terminal run the following command:

```
# brew update && brew install azure-cli
```



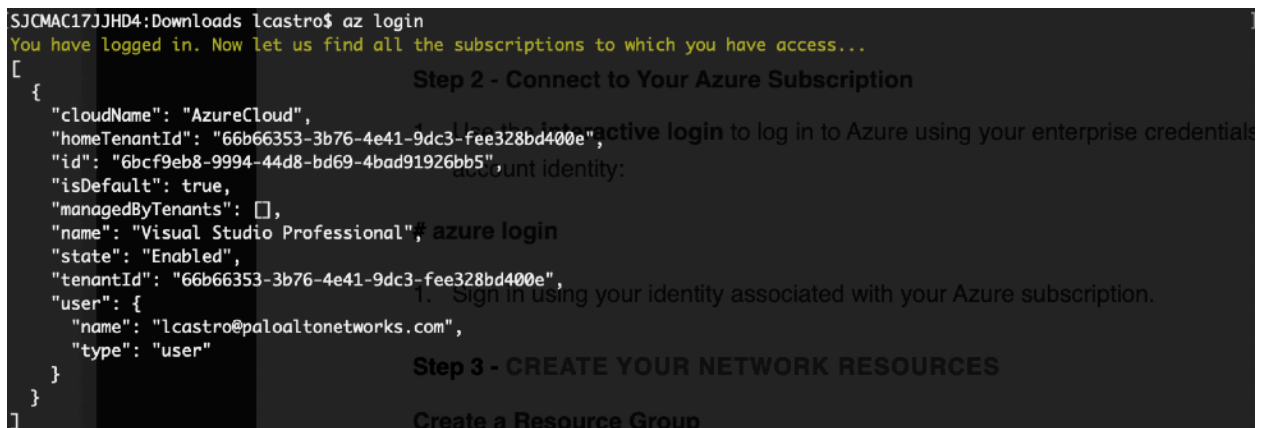
```
Downloads — ec2-user@ip-172-31-50-64:~ — curl < ruby -W0 --disable=gems,did_you_mean,rubyopt /usr/l...
=> Downloading from https://akamai.bintray.com/44/44483961b5d2b535b0ece1936c9d40b4bc7d9c7281646cca0fb476291ab9d4dc?__gda_
##### 100.0%
=> Pouring xz-5.2.5.mojave.bottle.tar.gz
/usr/local/Cellar/xz/5.2.5: 92 files, 1.1MB
=> Installing azure-cli dependency: python@3.8
=> Downloading https://homebrew.bintray.com/bottles/python@3.8-3.8.2.mojave.bottle.tar.gz
=> Downloading from https://akamai.bintray.com/51/511b4f2c3993f000516938ed0700936c8a7d8c054b5171fa733ac7d344291c30?__gda_
##### 86.2%
curl: (18) transfer closed with 2152040 bytes remaining to read
Error: Failed to download resource "python@3.8"
Download failed: https://homebrew.bintray.com/bottles/python@3.8-3.8.2.mojave.bottle.tar.gz
Warning: Bottle installation failed: building from source.
=> Installing dependencies for python@3.8: pkg-config
=> Installing python@3.8 dependency: pkg-config
=> Downloading https://homebrew.bintray.com/bottles/pkg-config-0.29.2.mojave.bottle.1.tar.gz
=> Downloading from https://akamai.bintray.com/dc/dcfbca723621eee085ddd5ebadc41fb8787a4717b9686f5288281633a830acSe?__gda_
##### 100.0%
=> Pouring pkg-config-0.29.2.mojave.bottle.1.tar.gz
/usr/local/Cellar/pkg-config/0.29.2: 11 files, 626.9KB
=> Downloading https://www.python.org/ftp/python/3.8.2/Python-3.8.2.tar.xz
```

Step 2 - Connect to Your Azure Subscription

- Use the **interactive login** to log in to Azure using your enterprise credentials or Microsoft account identity:

```
# az login
```

- Sign in using your identity associated with your Azure subscription.



```
SJCMAC17JJHD4:Downloads lcastro$ az login
You have logged in. Now let us find all the subscriptions to which you have access...
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "66b66353-3b76-4e41-9dc3-fee328bd400e",
    "id": "6bcf9eb8-9994-44d8-bd69-4bad91926bb5",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Visual Studio Professional",
    "state": "Enabled",
    "tenantId": "66b66353-3b76-4e41-9dc3-fee328bd400e",
    "user": {
      "name": "lcastro@paloaltonetworks.com",
      "type": "user"
    }
  }
]
Step 2 - Connect to Your Azure Subscription
1. Use the interactive login to log in to Azure using your enterprise credentials or Microsoft account identity:
# az login
1. Sign in using your identity associated with your Azure subscription.
```

Step 3 - CREATE YOUR NETWORK RESOURCES

Create a Resource Group

Step 3 - CREATE YOUR NETWORK RESOURCES

Create a Resource Group

1. Use the following command to create a new resource group with the following details:

- **Name:** username
- **Location:** designated location

az group create --name <username> --location <designated>

Eg: # az group create --name lcastro --location eastus

```
SJCMAC17JJHD4:Downloads lcastro$ az group create --name lcastro --location eastus
{
  "id": "/subscriptions/6bcf9eb8-9994-44d8-bd69-4bad91926bb5/resourceGroups/lcastro",
  "location": "eastus",
  "managedBy": null,
  "name": "lcastro",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
SJCMAC17JJHD4:Downloads lcastro$
```

az group show --name username

Step 4 - Create Virtual Machine

```
az vm create --resource-group <username> \  
  --name <username+VM1> \  
  --image UbuntuLTS \  
  --generate-ssh-keys \  
  --output json \  
  --verbose
```

```
SJCMAC17JJHD4:Downloads lcastro$ az vm create --resource-group lcastro \  
> --name lcastroVM1 \  
> --image UbuntuLTS \  
> --generate-ssh-keys \  
> --output json \  
> --verbose  
Failed to retrieve image alias doc 'https://raw.githubusercontent.com/Azure/azure-rest-api-specs/master/arm-compute/quickstart-templates/aliases.json'. Error: 'ConnectionError'. Use local copy instead.  
SSH key files '/Users/lcastro/.ssh/id_rsa' and '/Users/lcastro/.ssh/id_rsa.pub' have been generated under ~/.ssh to allow SSH access to the VM. If using machines without permanent storage, back up your keys to a safe location.  
{  
  "fqdns": "",  
  "id": "/subscriptions/6bcf9eb8-9994-44d8-bd69-4bad91926bb5/resourceGroups/lcastro/providers/Microsoft.Compute/virtualMachines/lcastroVM1",  
  "location": "eastus",  
  "macAddress": "00-0D-3A-13-C7-4A",  
  "powerState": "VM running",  
  "privateIpAddress": "10.0.0.4",  
  "publicIpAddress": "52.170.86.57",  
  "resourceGroup": "lcastro",  
  "zones": ""  
}  
command ran in 82.153 seconds.  
SJCMAC17JJHD4:Downloads lcastro$
```

After creation validate the JSON Output

```
{  
  "fqdns": "",  
  "id": "/subscriptions/6bcf9eb8-9994-44d8-bd69-4bad91926bb5/resourceGroups/lcastro/providers/Microsoft.Compute/virtualMachines/lcastroVM1",  
  "location": "eastus",  
  "macAddress": "00-0D-3A-13-C7-4A",  
  "powerState": "VM running",  
  "privateIpAddress": "10.0.0.4",  
  "publicIpAddress": "52.170.86.57",  
  "resourceGroup": "lcastro",  
  "zones": ""  
}
```

Step 5 - Connect to VM

ssh <PUBLIC_IP_ADDRESS>

ssh 52.170.86.57

```
SJCMAC17JJHD4:Downloads lcastro$ ssh 52.170.86.57
The authenticity of host '52.170.86.57 (52.170.86.57)' can't be established.
ECDSA key fingerprint is SHA256:yqnQkoUbBL4PQHmgr400ZgAC00ejCeMymTiAIevF/kU.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '52.170.86.57' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 5.0.0-1032-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Mon Mar 30 18:53:44 UTC 2020

System load: 0.0          Processes:            107
Usage of /:  4.0% of 28.90GB Users logged in:       0
Memory usage: 9%          IP address for eth0: 10.0.0.4
Swap usage:  0%

0 packages can be updated.
0 updates are security updates.

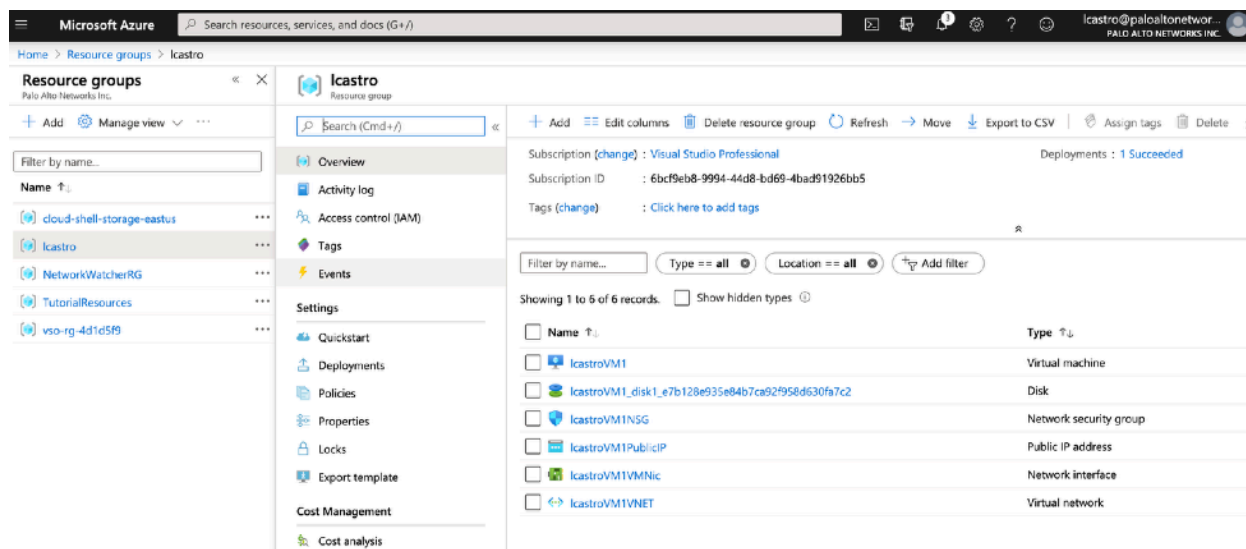
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law. Use the following command to list all possible CLI options for network co

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

lcastro@lcastroVM1:~$
```

Step 6 - Confirm Resources inside the Azure Web Portal



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo and a search bar. The left sidebar shows the 'Resource groups' section with a list of groups: 'cloud-shell-storage-eastus', 'Icastro', 'NetworkWatcherRG', 'TutorialResources', and 'vso-rg-4d1cd5f9'. The 'Icastro' resource group is selected. The main pane displays the 'Overview' tab for the 'Icastro' resource group. It shows the subscription as 'Visual Studio Professional' and the subscription ID as '6bc9eb8-9994-44d8-bd69-4bad91926bb5'. Below this, there is a table of resources. The table has columns for 'Name' and 'Type'. The resources listed are:

Name	Type
IcastroVM1	Virtual machine
IcastroVM1_disk1_e7b128e935e84b7ca92f958d630fa7c2	Disk
IcastroVM1NSG	Network security group
IcastroVM1PublicIP	Public IP address
IcastroVM1VMNic	Network interface
IcastroVM1VNET	Virtual network

Step 7 - Cleanup

Delete assets inside the Resource Group created

```
# az group wait --name <username> --deleted
```

Validate inside the Azure Web Console the assets has been deleted.