

Lab1 Week2

AWS Accounts and Log In

Identity and Access Management (IAM)

控制面板

访问管理

用户组

用户

角色

策略

身份提供商

账户设置

访问报告

访问分析器

存档规则

分析器

设置

凭证报告

组织活动

服务控制策略(SCP)

用户名

22994257@student.uwa.edu.au (创建于 2022-07-29 14:03 UTC+0800)

用户 ARN

arn:aws:iam::523265914192:user/22994257@student.uwa.edu.au

AWS 账户 ID

523265914192

账户规范用户 ID

e899a06030e20f8e9945922db62a14112f50d6a6d19721ca733875beb9e50f3c

AWS IAM 凭证

AWS CodeCommit 凭证

Amazon MCS 凭证

用于访问控制台的密码

作为 IAM 用户，您需要密码才能访问 AWS 管理控制台。我们建议您定期更改密码。您当前的密码已使用 5 天。[了解更多](#)

更改密码

用于访问 CLI、开发工具包和 API 的访问密钥

使用访问密钥从 AWS CLI、PowerShell 工具、AWS 开发工具包以编程方式调用 AWS，或者直接进行 AWS API 调用。您一次最多可拥有两个访问密钥（活跃或非活跃）。

为了您的安全，请不要与任何人分享您的私有密钥。作为最佳实践，我们建议您经常更换密钥。

私有密钥只能在创建时进行查看或下载。如果您的现有私有密钥放错位置，请创建新的访问密钥。[了解更多](#)

创建访问密钥

访问密钥 ID	状态	创建日期	最后使用	操作
AKIAXTVIUGVINCWIT3K4	活跃	2022-08-01 15:25 UTC+0800	N/A	停用 删除

创建访问密钥

您的新访问密钥现已可用。

这是唯一一次查看或下载秘密访问密钥的机会。以后您无法恢复它。不过，您随时可以创建新的访问密钥。

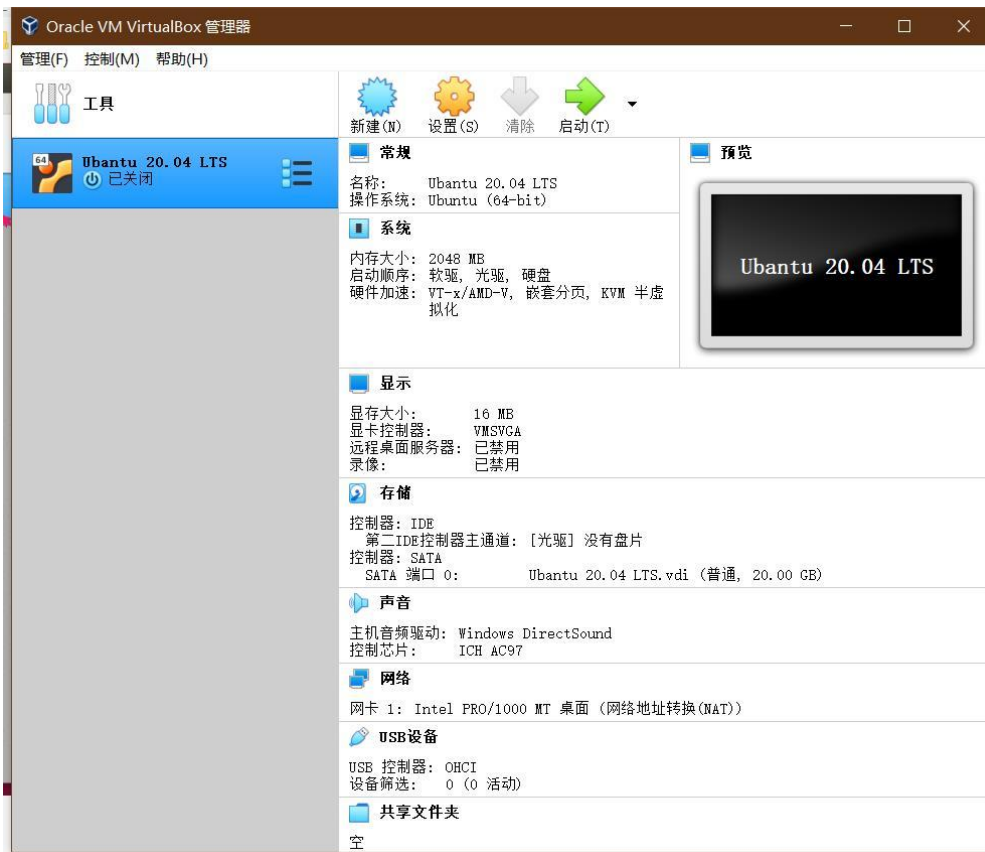
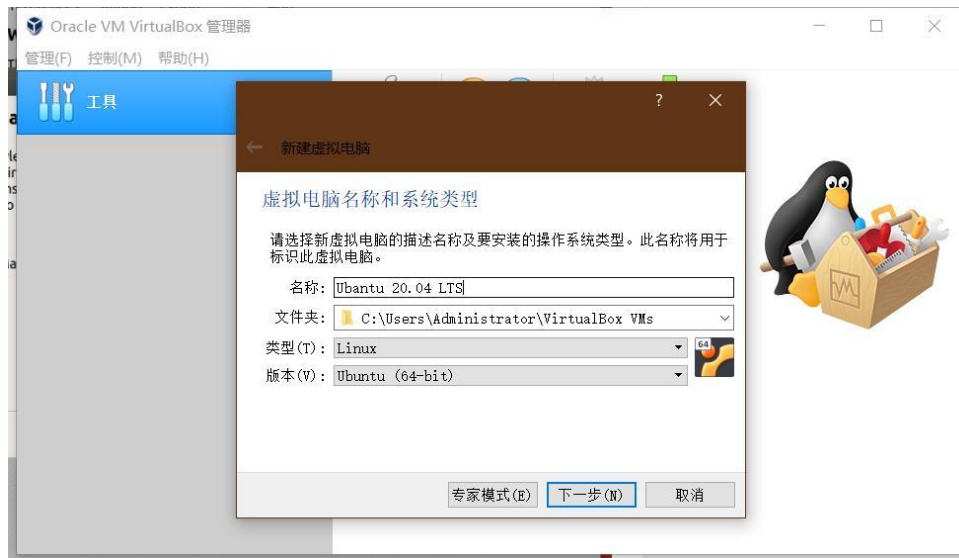
下载 .csv 文件

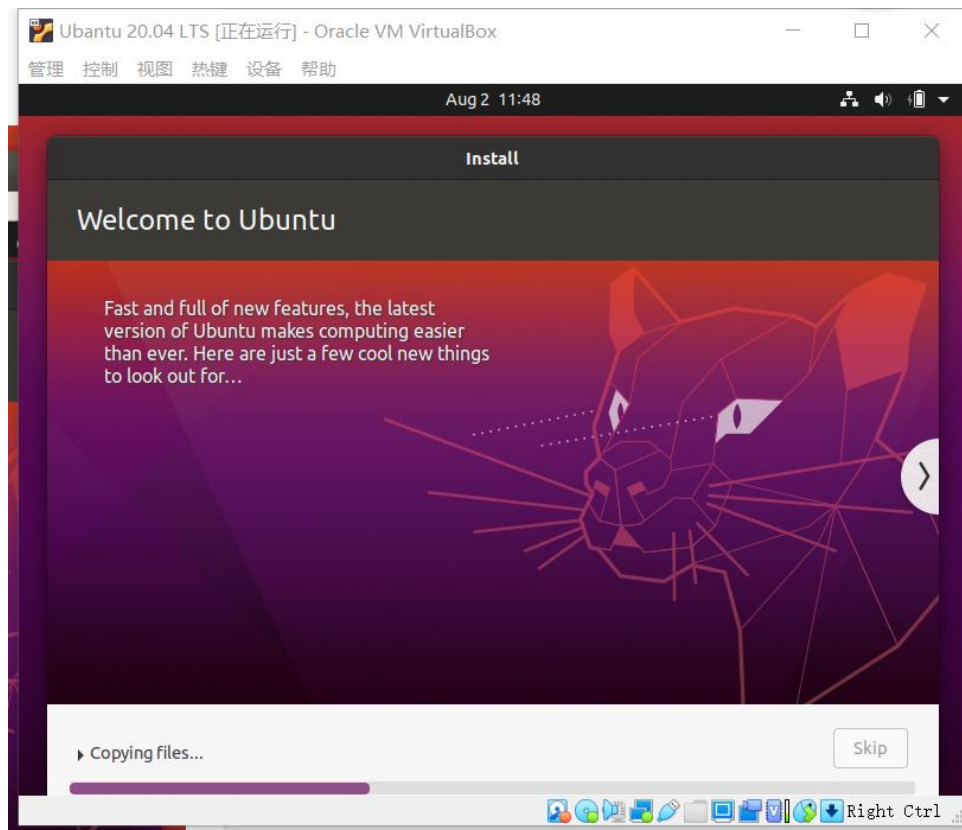
访问密钥 ID	AKIAXTVIUGVIBUHUUTHS
私有访问密钥	PP73YnmYCR7kBfvUkyZknzqzthw+ciTljctyl+mb

隐藏秘密访问密钥

关闭

Virtual Box and Ubuntu VM





AWSCLI, Boto and Python 3.8.x

```
mjieli@mjieli-VirtualBox:~$ python3 -V  
Python 3.8.10
```

```
/usr/lib/python3/dist-packages (from botocore==1.27.46)  
Installing collected packages: botocore, awscli  
Attempting uninstall: botocore  
  Found existing installation: botocore 1.27.43  
  Uninstalling botocore-1.27.43:  
    Successfully uninstalled botocore-1.27.43  
Attempting uninstall: awscli  
  Found existing installation: awscli 1.25.43  
  Uninstalling awscli-1.25.43:  
    Successfully uninstalled awscli-1.25.43  
Successfully installed awscli-1.25.46 botocore-1.27.46
```

```
mjieli@mjieli-VirtualBox:~$ aws configure  
AWS Access Key ID [*****T3K4]: AKIAXTVIUGVIBUHUUTHS  
AWS Secret Access Key [*****IfF0]: PP73YnmYCR7kBfvUkyZknzqzthw+ciTlj  
ctyl+mb  
Default region name [ap-southeast-2]: ap-southeast-2  
Default output format [json]: json
```

```
mjieli@mjieli-VirtualBox:~$ pip3 install boto3
Collecting boto3
  Downloading boto3-1.24.43-py3-none-any.whl (132 kB)
    |████████████████████████████████████████| 132 kB 2.7 MB/s
Requirement already satisfied: botocore<1.28.0,>=1.27.43 in ~/.local/lib/python3.8/site-packages (from boto3) (1.27.43)
Requirement already satisfied: s3transfer<0.7.0,>=0.6.0 in ~/.local/lib/python3.8/site-packages (from boto3) (0.6.0)
Requirement already satisfied: jmespath<2.0.0,>=0.7.1 in ~/.local/lib/python3.8/site-packages (from boto3) (1.0.1)
Requirement already satisfied: urllib3<1.27,>=1.25.4 in /usr/lib/python3/dist-packages (from botocore<1.28.0,>=1.27.43->boto3) (1.25.8)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /usr/lib/python3/dist-packages (from botocore<1.28.0,>=1.27.43->boto3) (2.7.3)
Installing collected packages: boto3
Successfully installed boto3-1.24.43
```

Exploring and testing the environment

```
mjleli@mjleli-VirtualBox:~$ aws ec2 describe-regions --output table
```

DescribeRegions		
Regions		
Endpoint	OptInStatus	RegionName
ec2.eu-north-1.amazonaws.com	opt-in-not-required	eu-north-1
ec2.ap-south-1.amazonaws.com	opt-in-not-required	ap-south-1
ec2.eu-west-3.amazonaws.com	opt-in-not-required	eu-west-3
ec2.eu-west-2.amazonaws.com	opt-in-not-required	eu-west-2
ec2.eu-west-1.amazonaws.com	opt-in-not-required	eu-west-1
ec2.ap-northeast-3.amazonaws.com	opt-in-not-required	ap-northeast-3

```
mjieli@mjieli-VirtualBox:~$ pwd
/home/mjieli
mjieli@mjieli-VirtualBox:~$ mkdir lab1
mjieli@mjieli-VirtualBox:~$ cd lab1
mjieli@mjieli-VirtualBox:~/lab1$ touch lab1.py
```

```
import boto3
ec2 = boto3.client('ec2')
response = ec2.describe_regions()
print(response)
```



```
mjieli@mjieli-VirtualBox:~/lab1$ python3 lab1.py
{'Regions': [{'Endpoint': 'ec2.eu-north-1.amazonaws.com', 'RegionName': 'eu-nor
th-1', 'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2.ap-south-1.amaz
onaws.com', 'RegionName': 'ap-south-1', 'OptInStatus': 'opt-in-not-required'},
{'Endpoint': 'ec2.eu-west-3.amazonaws.com', 'RegionName': 'eu-west-3', 'OptInSt
atus': 'opt-in-not-required'}, {'Endpoint': 'ec2.eu-west-2.amazonaws.com', 'Reg
ionName': 'eu-west-2', 'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2
.eu-west-1.amazonaws.com', 'RegionName': 'eu-west-1', 'OptInStatus': 'opt-in-no
t-required'}, {'Endpoint': 'ec2.ap-northeast-3.amazonaws.com', 'RegionName': 'a
p-northeast-3', 'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2.ap-nor
theast-2.amazonaws.com', 'RegionName': 'ap-northeast-2', 'OptInStatus': 'opt-in
-not-required'}, {'Endpoint': 'ec2.ap-northeast-1.amazonaws.com', 'RegionName':
'ap-northeast-1', 'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2.sa-
east-1.amazonaws.com', 'RegionName': 'sa-east-1', 'OptInStatus': 'opt-in-not-re
quired'}, {'Endpoint': 'ec2.ca-central-1.amazonaws.com', 'RegionName': 'ca-cent
ral-1', 'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2.ap-southeast-1
.amazonaws.com', 'RegionName': 'ap-southeast-1', 'OptInStatus': 'opt-in-not-req
uired'}, {'Endpoint': 'ec2.ap-southeast-2.amazonaws.com', 'RegionName': 'ap-sou
theast-2', 'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2.eu-central-
1.amazonaws.com', 'RegionName': 'eu-central-1', 'OptInStatus': 'opt-in-not-requ
ired'}, {'Endpoint': 'ec2.us-east-1.amazonaws.com', 'RegionName': 'us-east-1',
'OptInStatus': 'opt-in-not-required'}, {'Endpoint': 'ec2.us-east-2.amazonaws.co
m', 'RegionName': 'us-east-2', 'OptInStatus': 'opt-in-not-required'}, {'Endpoi
```

```
mjieli@mjieli-VirtualBox:~$ pip install pandas
Collecting pandas
  Downloading pandas-1.4.3-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64
.whl (11.7 MB)
    |████████████████████████████████████████| 11.7 MB 2.3 MB/s
Collecting python-dateutil>=2.8.1
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    |████████████████████████████████████████| 247 kB 1.5 MB/s
Collecting pytz>=2020.1
  Downloading pytz-2022.1-py2.py3-none-any.whl (503 kB)
    |████████████████████████████████████████| 503 kB 1.2 MB/s
Collecting numpy>=1.18.5; platform_machine != "aarch64" and platform_machine !=
"arm64" and python_version < "3.10"
  Downloading numpy-1.23.1-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64
.whl (17.1 MB)
    |████████████████████████████████████████| 17.1 MB 4.1 MB/s
Requirement already satisfied: six>=1.5 in /usr/lib/python3/dist-packages (from
python-dateutil>=2.8.1->pandas) (1.14.0)
Installing collected packages: python-dateutil, pytz, numpy, pandas
Successfully installed numpy-1.23.1 pandas-1.4.3 python-dateutil-2.8.2 pytz-202
```

```
import boto3
ec2 = boto3.client('ec2')
response = ec2.describe_regions()
from tabulate import tabulate
headers = ["Endpoint", "RegionName"]
print(tabulate(dict(response["Regions"]), headers=headers, tablefmt="fancy_grid"))
```

DescribeRegions		
Regions		
Endpoint	OptInStatus	RegionName
ec2.eu-north-1.amazonaws.com	opt-in-not-required	eu-north-1
ec2.ap-south-1.amazonaws.com	opt-in-not-required	ap-south-1
ec2.eu-west-3.amazonaws.com	opt-in-not-required	eu-west-3
ec2.eu-west-2.amazonaws.com	opt-in-not-required	eu-west-2
ec2.eu-west-1.amazonaws.com	opt-in-not-required	eu-west-1
ec2.ap-northeast-3.amazonaws.com	opt-in-not-required	ap-northeast-3
ec2.ap-northeast-2.amazonaws.com	opt-in-not-required	ap-northeast-2
ec2.ap-northeast-1.amazonaws.com	opt-in-not-required	ap-northeast-1
ec2.sa-east-1.amazonaws.com	opt-in-not-required	sa-east-1
ec2.ca-central-1.amazonaws.com	opt-in-not-required	ca-central-1
ec2.ap-southeast-1.amazonaws.com	opt-in-not-required	ap-southeast-1
ec2.ap-southeast-2.amazonaws.com	opt-in-not-required	ap-southeast-2
ec2.eu-central-1.amazonaws.com	opt-in-not-required	eu-central-1
ec2.us-east-1.amazonaws.com	opt-in-not-required	us-east-1
ec2.us-east-2.amazonaws.com	opt-in-not-required	us-east-2
ec2.us-west-1.amazonaws.com	opt-in-not-required	us-west-1
ec2.us-west-2.amazonaws.com	opt-in-not-required	us-west-2