

Homework-1

Name: Rahul Purushottam Gaonkar

Net-ID: rpg283

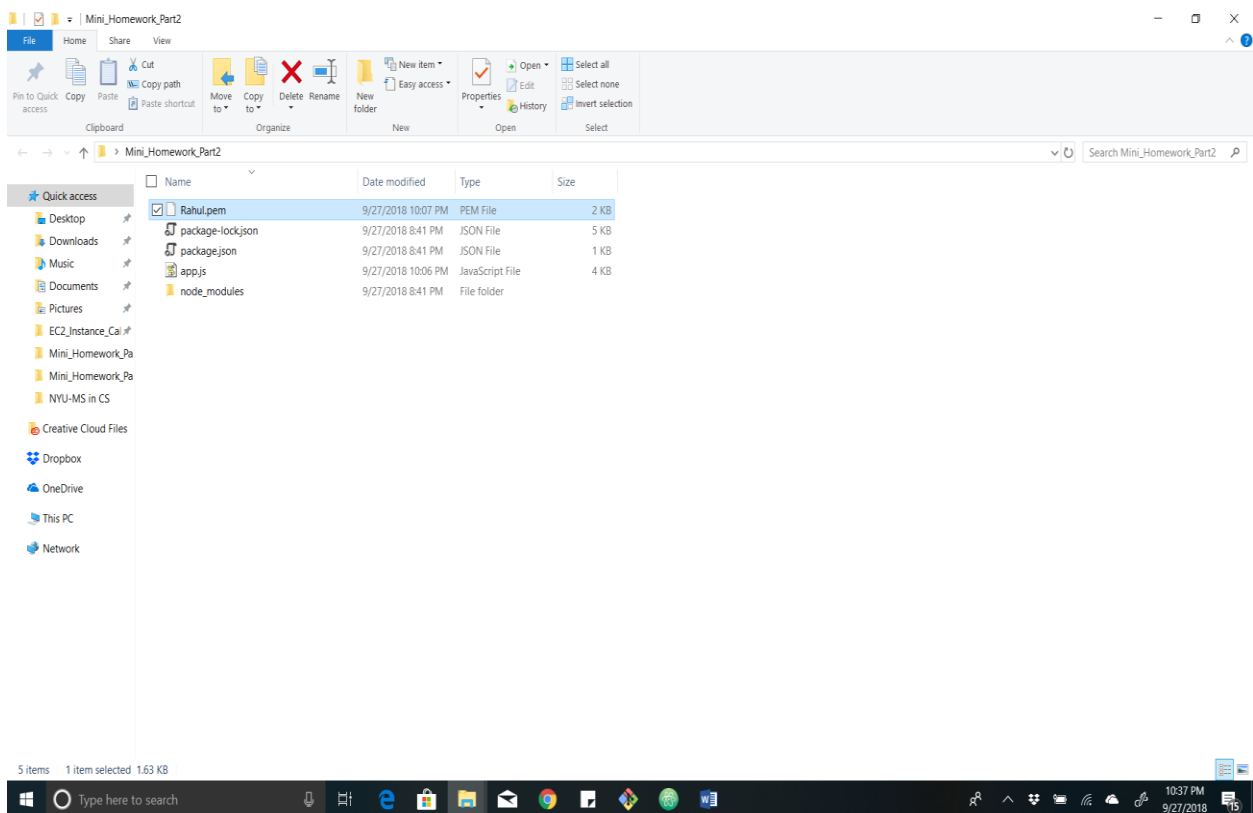
Mini_Homework_Part1: Contains the Part 1 of the Homework

Mini_Homework_Part2: Contains the Part 2 of the Homework

Created Key Pair Name : Rahul

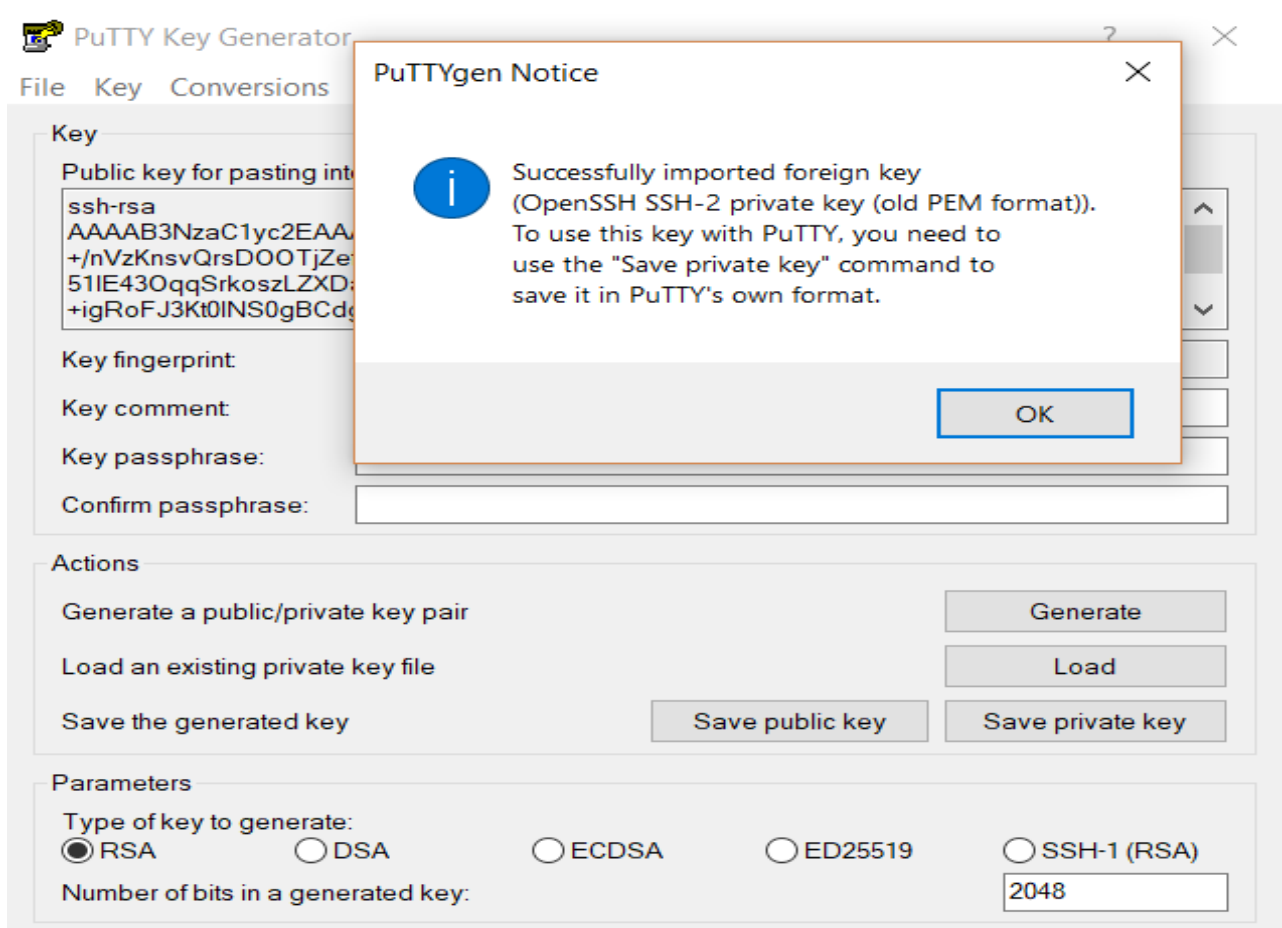
Created Security Group Name: Rahul

The code also saves the private key file Rahul.pem as shown below.



SSH into new EC2 instance:

1. Convert the Rahul.pem key pair file using putty generator into Rahul.ppk file by clicking on load and Save Private Key respectively.





PuTTY Key Generator



File Key Conversions Help

Key

Public key for pasting into:

```
ssh-rsa
AAAAB3NzaC1yc2EAAA
+nVzKnsvQrsDOOTjZe
51IE43OqqSrkoszLZXD
+igRoFJ3Kt0INS0gBCd
```

Key fingerprint:

Key comment:

Key passphrase:

Confirm passphrase:

PuTTYgen Warning



Are you sure you want to save this key
without a passphrase to protect it?

Yes

No

Actions

Generate a public/private key pair

Generate

Load an existing private key file

Load

Save the generated key

Save public key

Save private key

Parameters

Type of key to generate:

☒ RSA

☐ DSA

☐ ECDSA

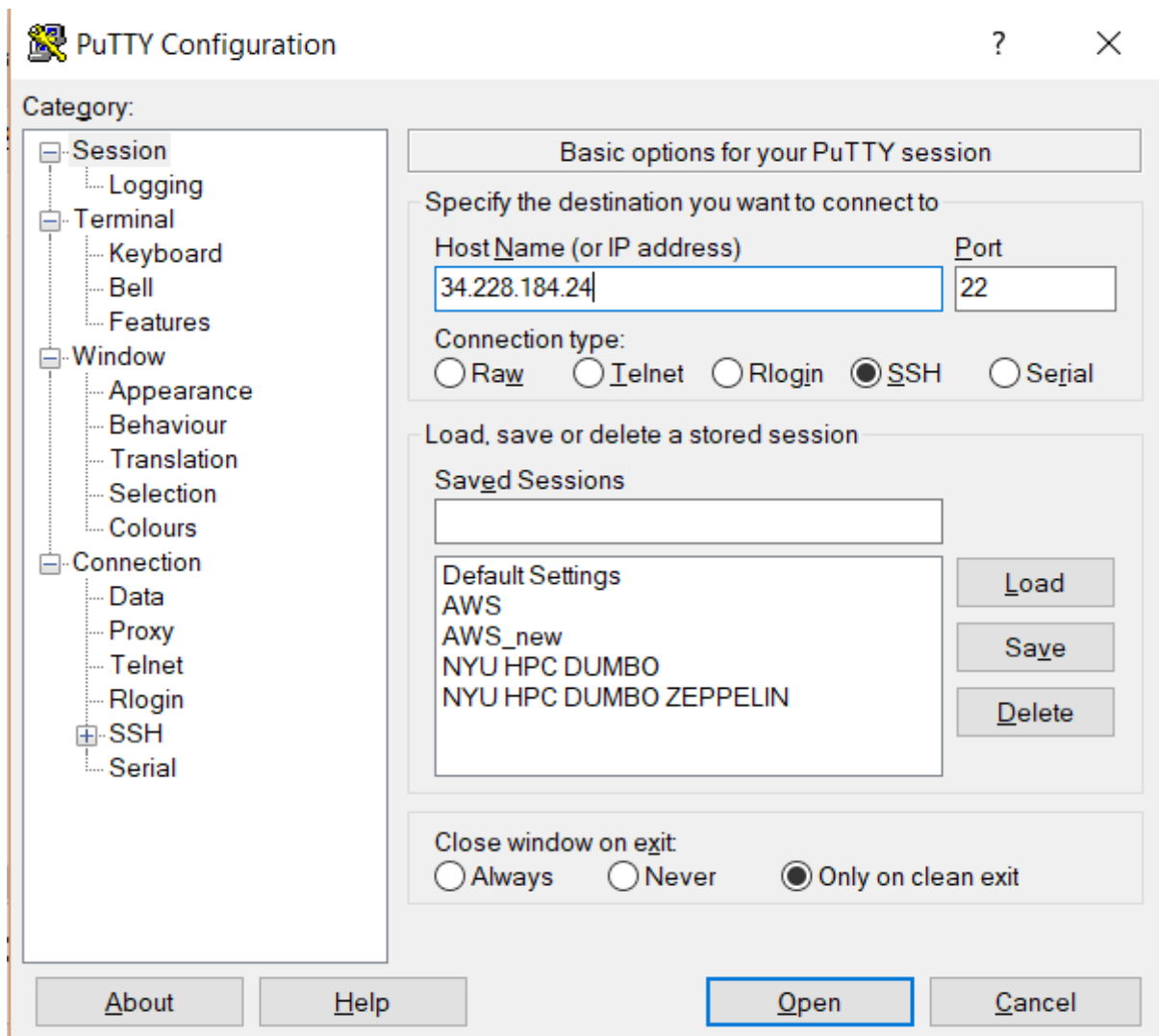
☐ ED25519

☐ SSH-1 (RSA)

Number of bits in a generated key:

2048

2. Use the Public IP address of the EC2 instance in the **Host Name (or IP address)** field and load the private key file Rahul.ppk by going into **SSH -> Auth** and then click on Open.





PuTTY Configuration



Category:

- Keyboard
- Bell
- Features
- Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
- Connection
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Kex
 - Host keys
 - Cipher
 - Auth
 - TTY
 - X11
 - Tunnels
 - Bugs
 - More bugs

Options controlling SSH authentication

- ☒ Display pre-authentication banner (SSH-2 only)
- ☐ Bypass authentication entirely (SSH-2 only)

Authentication methods

- ☒ Attempt authentication using Pageant
- ☐ Attempt TIS or CryptoCard auth (SSH-1)
- ☒ Attempt "keyboard-interactive" auth (SSH-2)

Authentication parameters

- ☐ Allow agent forwarding
- ☐ Allow attempted changes of username in SSH-2

Private key file for authentication:

C:\Users\Rahul\Desktop\Rahul.ppk

Browse...

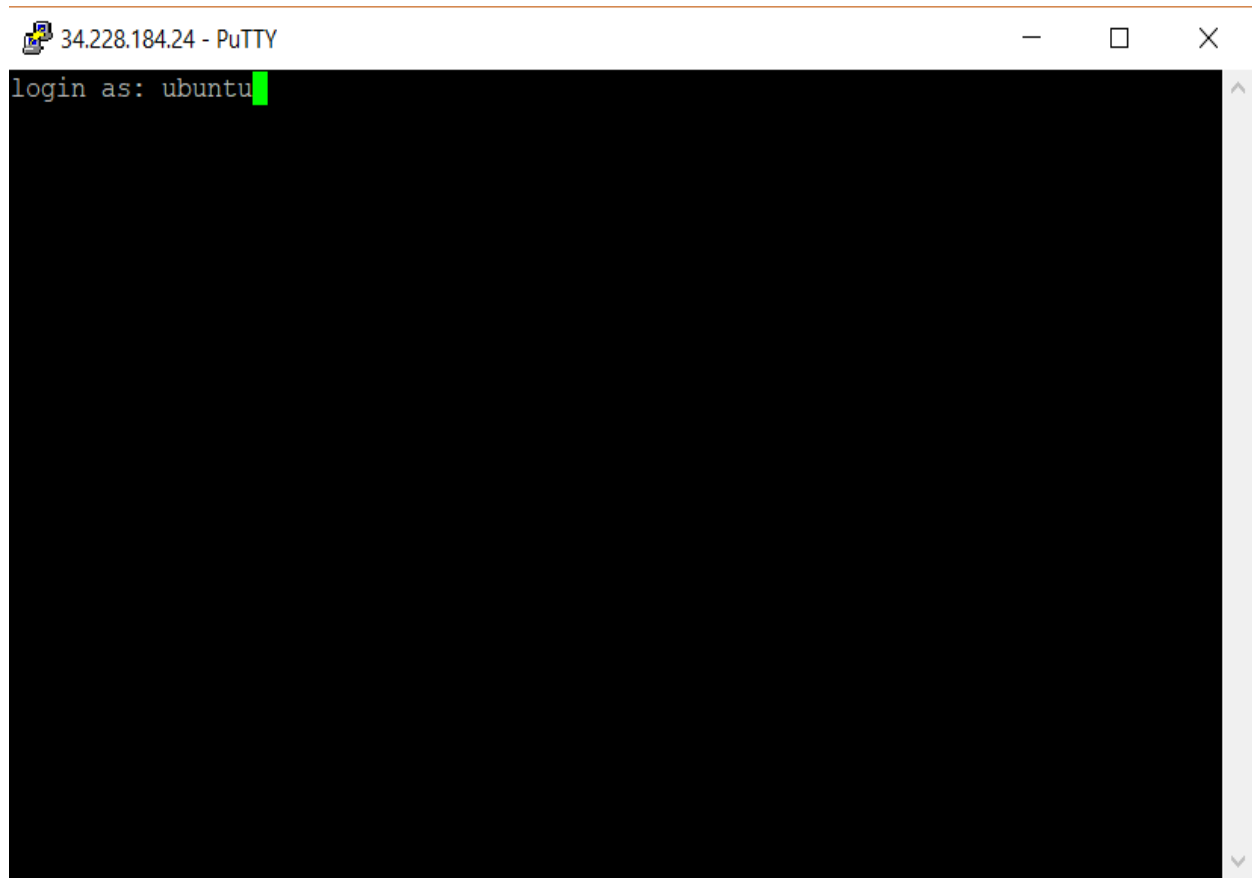
About

Help

Open

Cancel

3. Use **ubuntu** as the login name for this EC2 instance and then you might be able to login to the EC2 instance



ubuntu@ip-172-31-35-92:~

Login as: ubuntu

Authenticating with public key "imported-openssh-key"

Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 3.13.0-158-generic x86_64)

* Documentation: <https://help.ubuntu.com/>

System information as of Fri Sep 28 02:13:53 UTC 2018

System load:	0.0	Processes:	69
Usage of /:	10.2% of 7.74GB	Users logged in:	0
Memory usage:	9%	IP address for eth0:	172.31.35.92
Swap usage:	0%		

Graph this data and manage this system at:
<https://landscape.canonical.com/>

Get cloud support with Ubuntu Advantage Cloud Guest:
<http://www.ubuntu.com/business/services/cloud>

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

New release '16.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Sep 28 02:14:02 2018 from 216-165-95-175.natpool.nyu.edu
ubuntu@ip-172-31-35-92:~\$



4. AWS dashboard showing the EC2 instance, key pair (Rahul) , security group (Rahul) and the rule associated with the security group created.

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'Rahul' in the 'N. Virginia' region. The left sidebar contains various service categories, with 'INSTANCES' selected. The main content area shows a list of EC2 instances. The first instance, 'i-0eabc30a1488d4674', is a 't1.micro' instance in the 'us-east-1d' availability zone, currently in a 'running' state. Below the instance list, a modal window titled 'Security Groups associated with i-0eabc30a1488d4674' is open, displaying the details of the 'Rahul' security group. The modal shows the following rules:

Ports	Protocol	Source	Rahul
22	tcp	0.0.0.0/0	✓

The bottom of the screenshot shows the Windows taskbar with the time 10:29 PM on 9/27/2018.

SELECTED TOPICS IN CS, Section

NYU Classes: SELECTED TOPICS

EC2 Management Console

undefined public IP of EC2 instan

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:sort=dnsName

aws

Services

Resource Groups

Rahul @ 0692-6000-8017

N. Virginia

Support

EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Launch Templates

Spot Requests

Reserved Instances

Dedicated Hosts

Scheduled Instances

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

Lifecycle Manager

NETWORK & SECURITY

Security Groups

Elastic IPs

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

Public DNS (IPv4)IPv4 Public IPIPv6 IPsKey NameMonitoringLaunch TimeSecurity Groups

ec2-34-228-184-24.compute-1.amazonaws.com	34.228.184.24	-	Rahul	disabled	September 27, 2018 at 10:0...	Rahul
-	-	-	Rahul	disabled	September 27, 2018 at 9:58:...	

Instance: i-0eabc30a1488d4674Public DNS: ec2-34-228-184-24.compute-1.amazonaws.com

Description

Status Checks

Monitoring

Tags

Instance ID	i-0eabc30a1488d4674	Public DNS (IPv4)	ec2-34-228-184-24.compute-1.amazonaws.com
Instance state	running	IPv4 Public IP	34.228.184.24
Instance type	t1.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-35-92.ec2.internal

FeedbackEnglish (US)

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Type here to search

10:28 PM9/27/2018

SELECTED TOPICS IN CS, Section

NYU Classes: SELECTED TOPICS

EC2 Management Console

undefined public IP of EC2 instar

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroups:sort=groupid

awsServicesResource GroupsRahul @ 0692-6000-8017N. VirginiaSupport

EC2 DashboardEventsTagsReportsLimitsINSTANCESInstancesLaunch TemplatesSpot RequestsReserved InstancesDedicated HostsScheduled InstancesIMAGESAMIsBundle TasksELASTIC BLOCK STOREVolumesSnapshotsLifecycle ManagerNETWORK & SECURITYSecurity GroupsElastic IPs

Create Security GroupActions

Filter by tags and attributes or search by keyword1 to 5 of 5

	Name	Group ID	Group Name	VPC ID	Description
<input type="checkbox"/>		sg-0216b5d1a73bab9c0	launch-wizard-2	vpc-8663b0fc	launch-wizard-2 created 2018-09-19T21:29:02.804-04:00
<input type="checkbox"/>		sg-03f338875e2cc5d88	launch-wizard-3	vpc-8663b0fc	launch-wizard-3 created 2018-09-27T16:13:53.807-04:00
<input type="checkbox"/>		sg-09371e0ff384c50ad	Rahul	vpc-8663b0fc	Rahul
<input type="checkbox"/>		sg-0a2c4690a736c4d7d	launch-wizard-1	vpc-8663b0fc	launch-wizard-1 created 2018-09-14T16:54:16.127-04:00
<input type="checkbox"/>		sg-81c298cd	default	vpc-8663b0fc	default VPC security group

Select a security group above

FeedbackEnglish (US)

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Type here to search

10:30 PM9/27/2018

The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a user profile for 'Rahul @ 0692-6000-8017'. The left-hand navigation pane lists various AWS services, with 'Key Pairs' currently selected and highlighted in orange. The main content area is titled 'Scheduled Instances' and features buttons for 'Create Key Pair', 'Import Key Pair', and 'Delete'. Below these buttons is a search bar and a table of key pairs. The table has two columns: 'Key pair name' and 'Fingerprint'. Two key pairs are listed: 'Raga' and 'Rahul'. The 'Rahul' key pair is selected, indicated by a radio button. Below the table, there is a section titled 'Select a key pair' with three small icons.

Key pair name	Fingerprint
<input type="radio"/> Raga	84 b0 9b c5 a5 ec ea 65 ec 8b ee 72 71 87 59 fa 6b ed d6 2c
<input checked="" type="radio"/> Rahul	b9 51 2b 45 19 a7 af 1f a1 bf 51 59 6b d3 74 25 63 52 81 bc