



Model Deployment



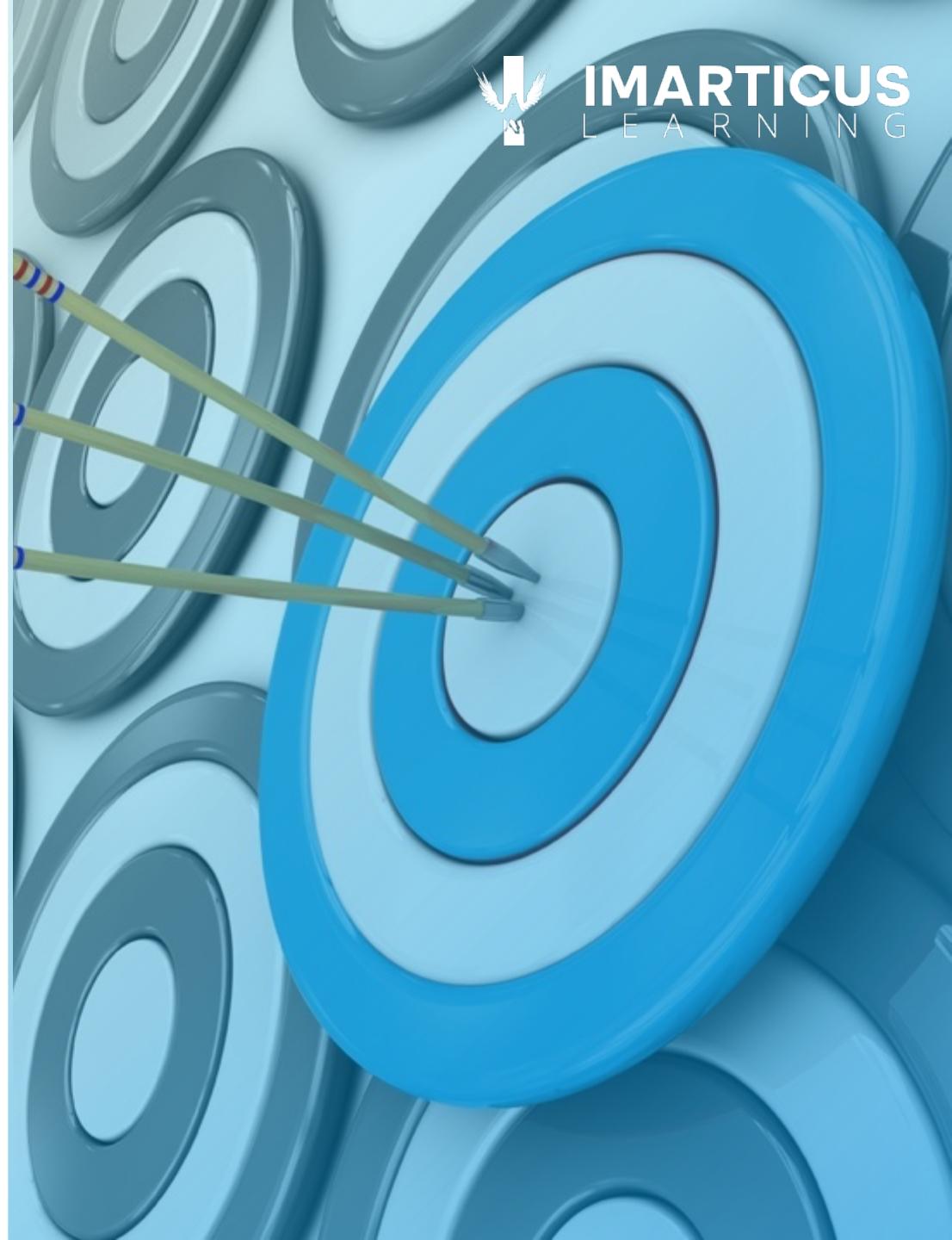
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LEARNING OBJECTIVES

At the end of this session, you will learn:

- Model Deployment





Post making model on SageMaker, Pickling, writing script for the website in html and website app through Flask, now the time has come to go for deployment through AWS EC2.

WHAT IS AMAZON EC2?

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) Cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.



Amazon EC2 provides the following features:

Virtual computing environments, known as *instances*

Preconfigured templates for your instances, known as *Amazon Machine Images (AMIs)*, that package the bits you need for your server (including the operating system and additional software)

Various configurations of CPU, memory, storage, and networking capacity for your instances, known as *instance types*

Secure login information for your instances using *key pairs* (AWS stores the public key, and you store the private key in a secure place)

Storage volumes for temporary data that's deleted when you stop, hibernate, or terminate your instance, known as *instance store volumes*

Amazon EC2 provides the following features:

Persistent storage volumes for your data using Amazon Elastic Block Store (Amazon EBS), known as *Amazon EBS volumes*

Multiple physical locations for your resources, such as instances and Amazon EBS volumes, known as *Regions and Availability Zones*

A firewall that enables you to specify the protocols, ports, and source IP ranges that can reach your instances using *security groups*

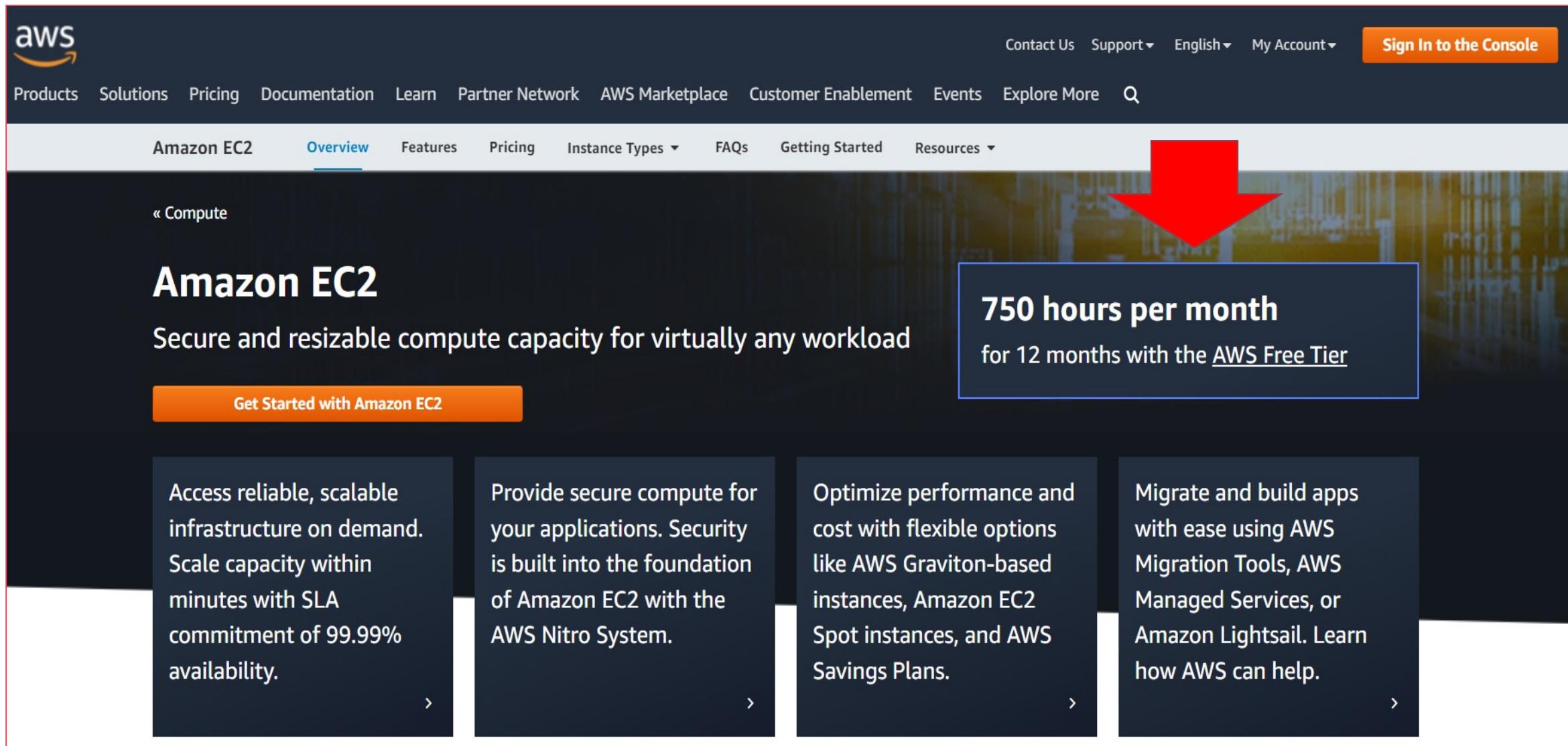
Static IPv4 addresses for dynamic cloud computing, known as *Elastic IP addresses*

Metadata, known as *tags*, that you can create and assign to your Amazon EC2 resources

Virtual networks you can create that are logically isolated from the rest of the AWS Cloud, and that you can optionally connect to your own network, known as *virtual private clouds (VPCs)*



Get Started with AWS EC2



The screenshot shows the AWS EC2 Overview page. At the top, there's a navigation bar with links for Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More, and a search bar. On the far right of the top bar are Contact Us, Support, English, My Account, and a Sign In to the Console button. Below the top bar, the main navigation menu includes Amazon EC2 (which is selected), Overview (underlined), Features, Pricing, Instance Types, FAQs, Getting Started, and Resources.

On the left side, there's a breadcrumb trail with a back arrow and the text "Compute". The main title "Amazon EC2" is displayed prominently, followed by the subtitle "Secure and resizable compute capacity for virtually any workload". Below the title is a large orange "Get Started with Amazon EC2" button.

A large red arrow points from the top right towards a callout box in the center-right area. This box contains the text "750 hours per month" and "for 12 months with the [AWS Free Tier](#)".

The page features four main sections with arrows pointing to the right:

- Access reliable, scalable infrastructure on demand. Scale capacity within minutes with SLA commitment of 99.99% availability.
- Provide secure compute for your applications. Security is built into the foundation of Amazon EC2 with the AWS Nitro System.
- Optimize performance and cost with flexible options like AWS Graviton-based instances, Amazon EC2 Spot instances, and AWS Savings Plans.
- Migrate and build apps with ease using AWS Migration Tools, AWS Managed Services, or Amazon Lightsail. Learn how AWS can help.

1 Go to Amazon SageMaker

Search results for 'ec2'

Services

See all 9 results ▶



EC2 ☆

Virtual Servers in the Cloud

Top features

Dashboard Launch templates Instances Spot Instance requests Savings plans



EC2 Image Builder ☆

A managed service to automate build, customize and deploy OS images



AWS Compute Optimizer ☆

Recommend optimal AWS Compute resources for your workloads



AWS Firewall Manager ☆

Central management of firewall rules

Features

See all 40 results ▶

Export snapshots to EC2

Lightsail feature

2 Click this

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InsuranceModel (1).pkl

app (1).py

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Home:

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New EC2 Experience Tell us what you think

EC2 Dashboard

- EC2 Global View
- Events
- Tags
- Limits
- Instances**
 - Instances** New
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances New
 - Dedicated Hosts
 - Scheduled Instances
 - Capacity Reservations
- Images
 - AMIs New
 - AMI Catalog
- Elastic Block Store

Resources

You are using the following Amazon EC2 resources in the US West (Oregon) Region:

Instances (running)	0	Dedicated Hosts	0	Elastic IPs	0
Instances	0	Key pairs	0	Load balancers	0
Placement groups	0	Security groups	1	Snapshots	0
Volumes	0				

EC2 Global view

Account attributes

- Supported platforms
 - VPC
- Default VPC vpc-0a554c4129515b729
- Settings
- EBS encryption
- Zones
- EC2 Serial Console
- Default credit specification
- Console experiments

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Service health

AWS Health Dashboard

Region	Status
US West (Oregon)	This service is operating normally

Explore AWS

10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs without compromising on performance or capacity. [Learn more](#)

Save Up to 45% on ML Inference

EC2 Inf1 instances provide high performance and lowest cost ML inference in the cloud. [Learn more](#)

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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New EC2 Experience Tell us what you think

EC2 Dashboard EC2 Global View Events Tags Limits

Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs New AMI Catalog

Elastic Block Store Volumes New Snapshots New

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Instances Info

Search

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4

No instances You do not have any instances in this region

Launch instances

Click this

Or, Click this

Launch instances

Select an instance

15:17 30-03-2022 12

A screenshot of a web browser showing multiple tabs open. The active tab is titled "Launch instance" and has a red box drawn around it. The URL in the address bar is "us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:". Below the address bar, there's a search bar with the placeholder "Search for services, features, blogs, docs, and more" and a "[Alt+S]" keyboard shortcut. The AWS logo is on the left, and the top navigation bar includes "Services", a user profile for "Oregon", and "Dr Vinod".

You've been invited to try an early, beta iteration of the new launch instance wizard. We will continue to improve the experience over the next few months. We're asking customers for their feedback on this early release. To exit the new launch instance wizard at any time, choose the **Cancel** button.

Try it now!

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or your own AMIs.

Cancel and Exit
You can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Free tier only (i)



Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-00ee4df451840fa9d (64-bit x86) / ami-0cde3ffbd04841819 (64-bit Arm)

Select

Amazon Linux

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

64-bit (x86)

64-bit (Arm)

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes



Amazon Linux 2 AMI (HVM) - Kernel 4.14, SSD Volume Type - ami-0eb324d928acca58a (64-bit x86) / ami-04d305fac4c9ef925 (64-bit Arm)

Select

Amazon Linux

Free tier eligible

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

64-bit (x86)

64-bit (Arm)

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes



macOS Monterey 12.2.1 - ami-04979da79eefb96099

Select

The macOS Monterey AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The

64-bit (Mac)



Type here to search



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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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You've been invited to try an early, beta iteration of the new launch instance wizard. We will continue to improve the experience over the next few months. We're asking customers for their feedback on this early release. To exit the new launch instance wizard at any time, choose the **Cancel** button.

Try it now!

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Cancel and Exit

64-bit (Arm)



SUSE Linux Enterprise Server 15 SP3 (HVM), SSD Volume Type - ami-0b2f7a874cbfc4d53 (64-bit x86) / ami-07d3d385798af0ee0 (64-bit Arm)

Select

SUSE Linux

Free tier eligible

SUSE Linux Enterprise Server 15 Service Pack 3 (HVM), EBS General Purpose (SSD) Volume Type. Amazon EC2 AMI Tools preinstalled; Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available.

64-bit (x86)

64-bit (Arm)



Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0892d3c7ee96c0bf7 (64-bit x86) / ami-078278691222aae06 (64-bit Arm)

Select

Free tier eligible

Ubuntu Server 20.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

64-bit (x86)

64-bit (Arm)



Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-074251216af698218 (64-bit x86) / ami-08d20da2261ebe2ec (64-bit Arm)

Select

Free tier eligible

Ubuntu Server 18.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

64-bit (x86)

64-bit (Arm)



Microsoft Windows Server 2019 Base - ami-000b6e3a1a8493a2f

Select

Windows

Free tier eligible

Microsoft Windows 2019 Datacenter edition. [English]

64-bit (x86)



Deep Learning AMI (Ubuntu 18.04) Version 58.0 - ami-08d71967f5a1f4c8d

Select

Click this

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	t3	t3.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes

Click this

Cancel Previous Review and Launch Next: Configure Instance Details

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A screenshot of a web browser showing the AWS Launch Instance wizard. The tab bar at the top has several open tabs, including 'Launch instance' which is highlighted with a red box. Below the tabs, the URL is 'us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard'. The main content area shows the '3. Configure Instance' step of the wizard, with tabs for 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance (highlighted with a red box), 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances (i)

1



Launch into Auto Scaling Group (i)

Purchasing option (i)

Request Spot instances

Network (i)

vpc-0a554c4129515b729 (default)

Create new VPC

Subnet (i)

No preference (default subnet in any Availability Zone)

Create new subnet

Auto-assign Public IP (i)

Use subnet setting (Enable)

Hostname type (i)

Use subnet setting (IP name)

DNS Hostname (i)

Enable IP name IPv4 (A record) DNS requests

Enable resource-based IPv4 (A record) DNS requests

Enable resource-based IPv6 (AAAA record) DNS requests

Placement group (i)

Add instance to placement group

Capacity Reservation (i)

Open

Domain join directory (i)

No directory

Create new directory

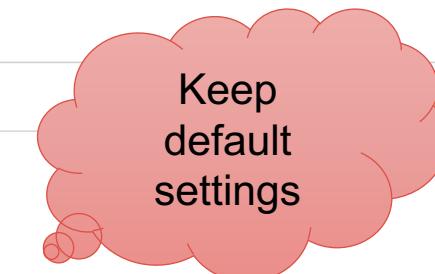
IAM role (i)

None

Create new IAM role

Shutdown behavior (i)

Stop



Click this



Cancel

Previous

Review and Launch

Next: Add Storage



Services

Search for services, features, blogs, docs, and more

[Alt+S]

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

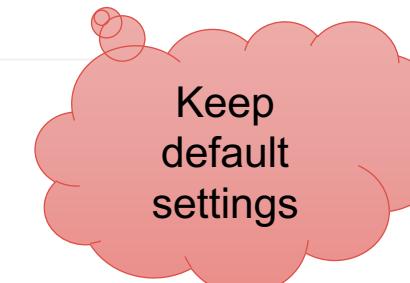
Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-01af0992e5caa2b13	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

▼ Shared file systems

You currently don't have any file systems on this instance. Select "Add file system" button below to add a file system.

[Add file system](#)

Click this

[Cancel](#)[Previous](#)[Review and Launch](#)[Next: Add Tags](#)

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum) | Value (256 characters maximum) | Instances ⓘ | Volumes ⓘ | Network Interfaces ⓘ

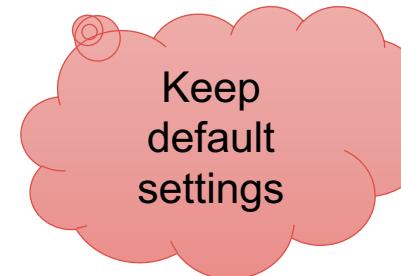
This resource currently has no tags

Choose the Add tag button or [click to add a Name tag](#).

Make sure your [IAM policy](#) includes permissions to create tags.

Add Tag

(Up to 50 tags maximum)



Click this



Cancel Previous Review and Launch Next: Configure Security Group

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15:25 ENG 30-03-2022 18

The screenshot shows a browser window with multiple tabs open. The active tab is titled "Launch instance" and has a red box around it. The URL in the address bar is "us-west-2.console.aws.amazon.com/ec2/2/home?region=us-west-2#LaunchInstanceWizard:6". Below the address bar, there's a navigation bar with links like "Gmail", "YouTube", "Maps", "Content Curation A...", "IoA_Content_Links ...", "Experiments - Micr...", "(42) Mathematics f...", and "C:\Users\Dr Vinod...". The main content area shows the "6. Configure Security Group" step of the EC2 instance launch wizard. The step title is "Step 6: Configure Security Group". Below it, a note says: "A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups." There are two radio button options: "Create a new security group" (selected) and "Select an existing security group". A "Security group name" input field contains "launch-wizard-1" and a "Description" input field contains "launch-wizard-1 created 2022-03-30T15:25:43.369+05:30". Below this, a table shows a single rule: Type: SSH, Protocol: TCP, Port Range: 22, Source: Custom (0.0.0.0/0), Description: e.g. SSH for Admin Desktop. A "Add Rule" button is visible. At the bottom, a warning message says: "Warning: Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only." A blue speech bubble points to this message with the text "Click this". A large red arrow points to the "Review and Launch" button at the bottom right.

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a **new** security group

Select an **existing** security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule



Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Click this

Cancel **Previous** **Review and Launch**

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

Gmail YouTube Maps Content Curation A... IoA_Content_Links ... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod... 127.0.0.1:5500 127.0.0.1:5500

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, launch-wizard-1, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details

[Edit AMI](#)

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-074251216af698218

Free tier
eligible

Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root Device Type: ebs Virtualization type: hvm

Instance Type

[Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

Click this

Security Groups

[Edit security groups](#)

Security group name: launch-wizard-1

Description: launch-wizard-1 created 2022-03-30T15:25:43.369+05:30

Type	Protocol	Port Range	Source	Description	

Cancel Previous **Launch**

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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aws Services Search for services, features, blogs, docs, and more [Alt+S]

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group...

Your instances may be accessible from any IP address. We recommend using a security group to restrict access to your instances. You can also open additional ports in your security group to facilitate communication between your instances and the world.

AMI Details

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0f1a2345678901234 (Free tier eligible)

Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type - gp2

Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2022-03-30T15:22:22Z

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Choose an existing key pair

Select a key pair

No key pairs found

No key pairs found
You don't have any key pairs. Please create a new key pair by selecting the **Create a new key pair** option above to continue.

Cancel Launch Instances

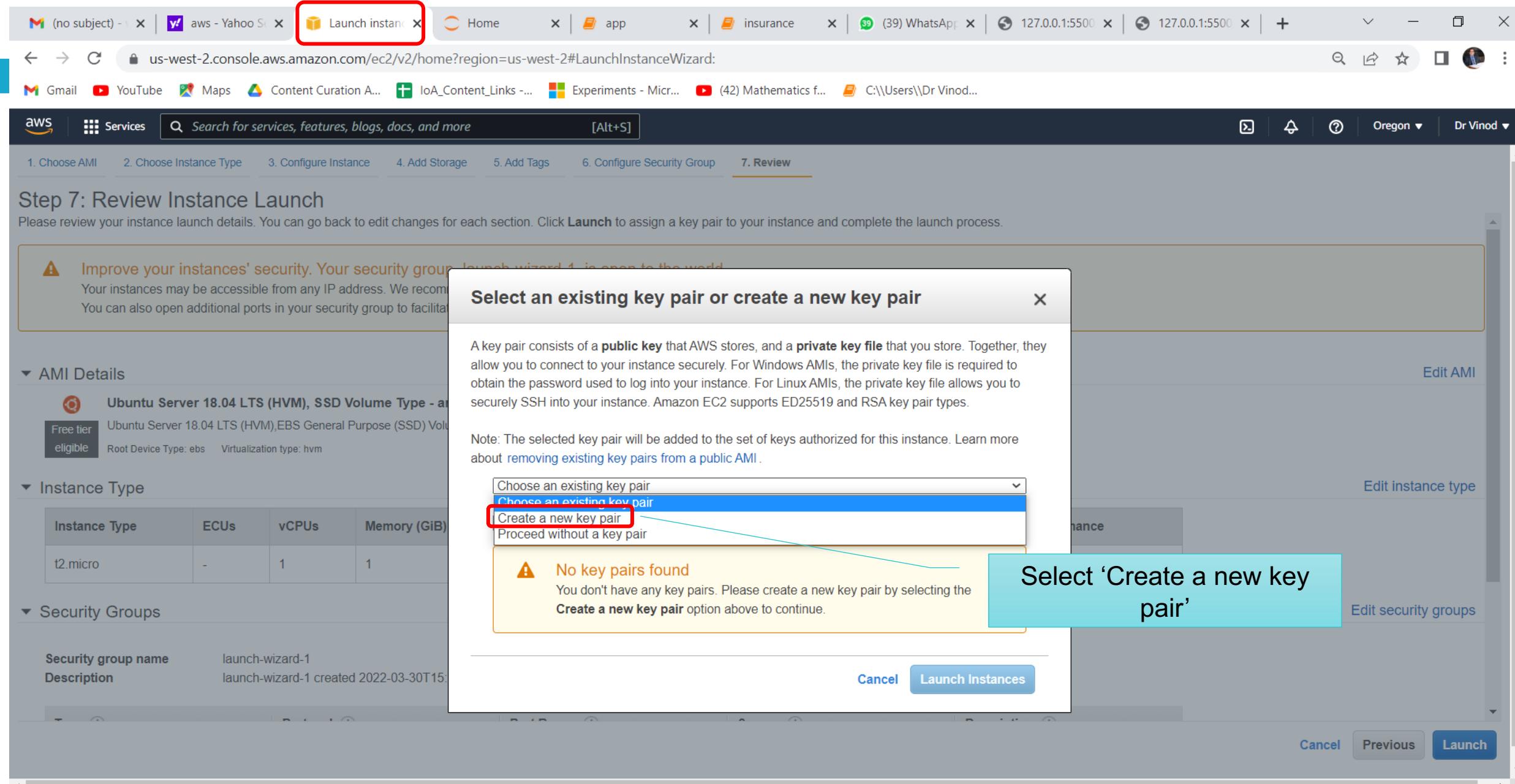
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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, launch-wizard-1, is open to the world.

Your instances may be accessible from any IP address. We recommend that you change your security group's settings to restrict access. You can also open additional ports in your security group to facilitate access.

AMI Details

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0f1a2a2a2a2a2a2a2
Free tier eligible

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2022-03-30T15:23:23Z

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair
Key pair type: RSA (selected)
Key pair name: demo

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

Give name 'demo' and click Download Key Pair

Cancel Previous Launch

M (no subject) - X | aws - Yahoo S... X | Launch instance X | Home X | app X | insurance X | 39 (39) WhatsApp X | 127.0.0.1:5500 X | 127.0.0.1:5500 X | +

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

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Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

⚠ Improve your instances' security. Your security group, launch-wizard-1, is open to the world.

Your instances may be accessible from any IP address. We recommend that you change your security group's settings to restrict access. You can also open additional ports in your security group to facilitate access.

AMI Details

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-0f1a2345678901234
Free tier eligible

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2022-03-30T15:45:45Z

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair
Key pair type: RSA
Key pair name: demo
Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

Click 'Launch instances'

Feedback English (US) ▾ demo.pem Show all 24 15:34 30-03-2022

A screenshot of a web browser showing multiple tabs open. The active tab is titled "Launch instance" and has a red box drawn around it. The URL in the address bar is "us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:". Below the address bar, there's a navigation bar with links like "Gmail", "YouTube", "Maps", "Content Curation A...", "IoA_Content_Links -...", "Experiments - Micr...", "(42) Mathematics f...", and "C:\Users\Dr Vinod...". The main content area shows a "Launch Status" section with a green box around the message "Your instances are now launching". To the right of this message is a blue thought bubble containing the text "Observe this".

Launch Status

- ✓ Your instances are now launching

The following instance launches have been initiated: [i-0d08329569f54e731](#) [View launch log](#)

- ℹ Get notified of estimated charges

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

- How to connect to your Linux instance
- Learn about AWS Free Usage Tier
- [Amazon EC2: User Guide](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- Create [status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach [additional EBS volumes](#) (Additional charges may apply)
- Manage [security groups](#)

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us-west-2.console.aws.amazon.com Type EC2 here

aws Services Q ec2

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Launch Status



Your instances

The following i



Get notified

Create billing

How to connect to your instances

Your instances are laun

Click [View Instances](#) to m

Here are some helpful resources

- How to connect to you

- Learn about AWS Free

While your instances are

- Create status check al

- Create and attach add

- Manage security group

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Services

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EC2



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A managed service to automate build, customize and deploy OS images



AWS Compute Optimizer



Recommend optimal AWS Compute resources for your workloads



AWS Firewall Manager



Central management of firewall rules

Features

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[Export snapshots to EC2](#)

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Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-34-217-65-18.us-w...	34.217.65.18

Observe this!
It means that our instance is now under operation

Select an instance

New EC2 Experience
Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

- Instances New
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances New
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Images

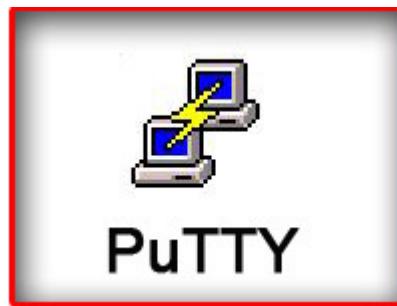
- AMIs New
- AMI Catalog

Elastic Block Store

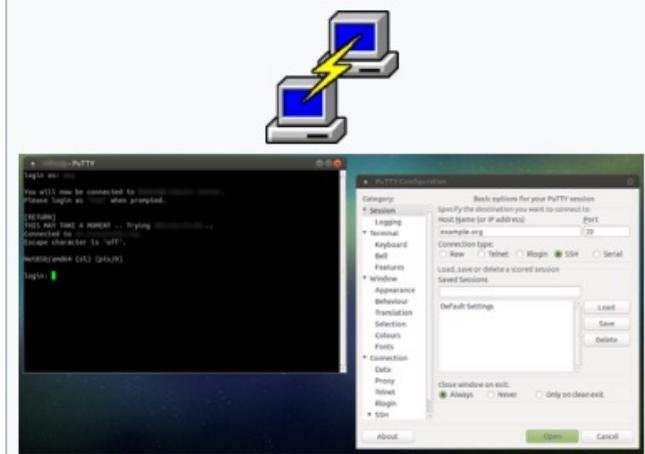
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PuTTY



A screenshot of PuTTY running under Ubuntu MATE

Developer(s)	Simon Tatham
Initial release	January 8, 1999; 23 years ago ^[1]
Stable release	0.76 ^[2] / 17 July 2021
Repository	git.tartarus.org?p=simon%2Fputty.git
Written in	C
Operating system	Microsoft Windows, macOS, Linux
Type	Terminal emulator
License	MIT Licence ^[3]
Website	www.chiark.greenend.org.uk/~sgtatham/putty/

Now we need to create **SSH Key pairs** through PuTTYgen

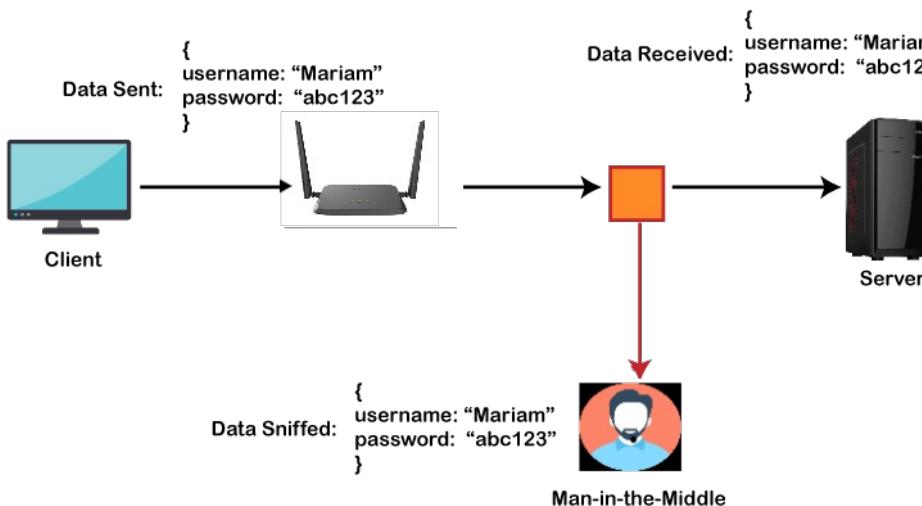
SSH Keys

- SSH stands for Secure Shell or Secure Socket Shell. It is a cryptographic network protocol that allows two computers to communicate and share the data over an insecure network such as the internet. It is used to login to a remote server to execute commands and data transfer from one machine to another machine.
- The SSH protocol was developed by SSH communication security Ltd to safely communicate with the remote machine.
- Secure communication provides a strong password authentication and encrypted communication with a public key over an insecure channel. It is used to replace unprotected remote login protocols such as Telnet, rlogin, rsh, etc., and insecure file transfer protocol FTP
- Its security features are widely used by network administrators for managing systems and applications remotely.

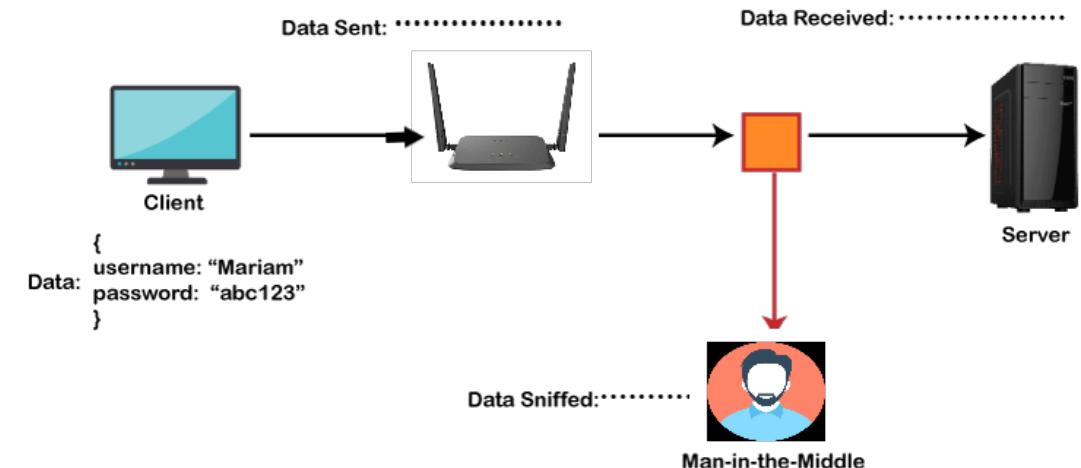
SSH PROTOCOL

The SSH protocol protects the network from various attacks such as **DNS spoofing, IP source routing, and IP spoofing**. A simple example can be understood, such as suppose you want to transfer a package to one of your friends. Without SSH protocol, it can be opened and read by anyone. But if you will send it using SSH protocol, it will be encrypted and secured with the public keys, and only the receiver can open it.

Before SSH:



After SSH:



History of SSH Protocol

Version 1.x

The first version of SSH was launched in the year 1995 and designed by Tatu Ylönen, who was the researcher at the Helsinki University of Technology, Finland. It was known as SSH-1. In this version, there were several issues, and hence it got deprecated.

Version 2.x

The second version is known as SSH-2, the current version of the SSH protocol. In 2006, it was opted as a Standards Track specification by the Internet Engineering Task Force (IETF). This version is not compatible with the SSH-1 protocol. It has better security features compared to SSH-1.

Version 1.99

Version 1.99 is specified as the proto version of 2.1. It is not the actual version but a way to identify the backward compatibility.

Generating SSH keys

SSH keys come in many sizes, but a popular choice is an **RSA 2048-bit encryption**, which is comparable to a 617 digit long password. On Windows systems, it is possible to **generate your own SSH key pair** by downloading and using an SSH client like **PuTTY**.



A screenshot of a web browser showing search results for "puttygen download free for windows 10". The search bar at the top is circled in red. Below it, the search results are displayed. The first result, "PuTTYgen Download" from www.puttygen.com, has a large red arrow pointing to its title. To the right of the search results, there is a large, light-blue, cloud-shaped graphic with the text "Download PuTTYgen" inside it. The browser interface includes a navigation bar with "All", "Images", "Videos", "News", and "More" buttons, and a date/time stamp in the bottom right corner.

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CONTENTS

[Puttygen aka Putty Key Generator](#)[How to use PuTTYgen?](#)[Download PuTTYgen](#)[PuttyGen on Windows](#)

PuTTYgen is a key generator tool for creating pairs of public and private SSH keys. It is one of the components of the open-source networking client PuTTY. Although originally written for Microsoft Windows operating system, it is now officially available for multiple operating systems including macOS, Linux. PuTTYgen.exe is the graphical tool on Windows OS. While on the other side, Linux OS has the only command-line version could be accessible using [SSH commands](#).

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To download PuTTYgen the primary requisite is to acquire the copy of PuTTY installation package. For the 64-bit operating system, one must install the 64-bit version of PuTTY, i.e. `putty-64bit-<version>-installer.msi`. Similarly, for the 32-bit operating system, the respective 32-bit version of PuTTY, i.e. `putty-<version>-installer.msi` needs to be installed.

To get PuTTY, go to [PuTTY Installation Download page](#), whereby the complete installation package will be available with setup instructions, installation guide, and download links to all other components of PuTTY such as `putty.exe`, `pscp.exe`, `psftp.exe`, `puttytel.exe`, `plink.exe`, `pageant.exe` and `putty.zip`.

Puttygen aka Putty Key Generator

How to use PuTTYgen?

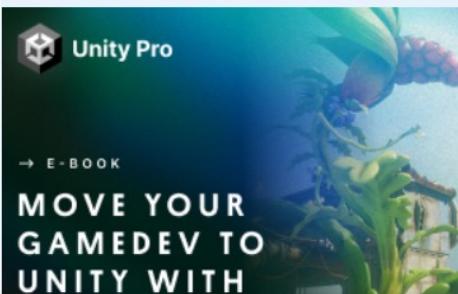
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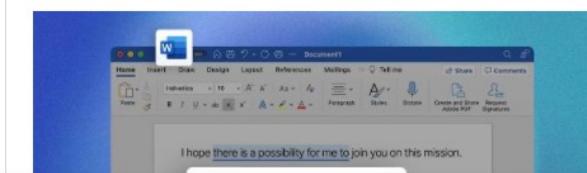
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64-bit:	putty-64bit-0.76-installer.msi	(via FTP)	(signature)
64-bit x86:	putty-arm64-0.76-installer.msi	(via FTP)	(signature)
Unix source archive for putty			
.tar.gz:	putty-0.76.tar.gz	(Signature)	

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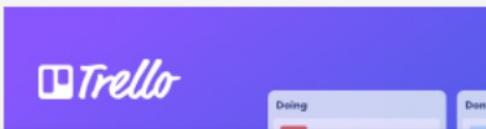
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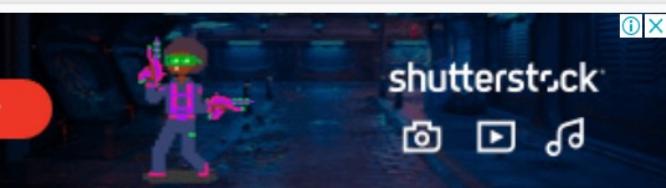
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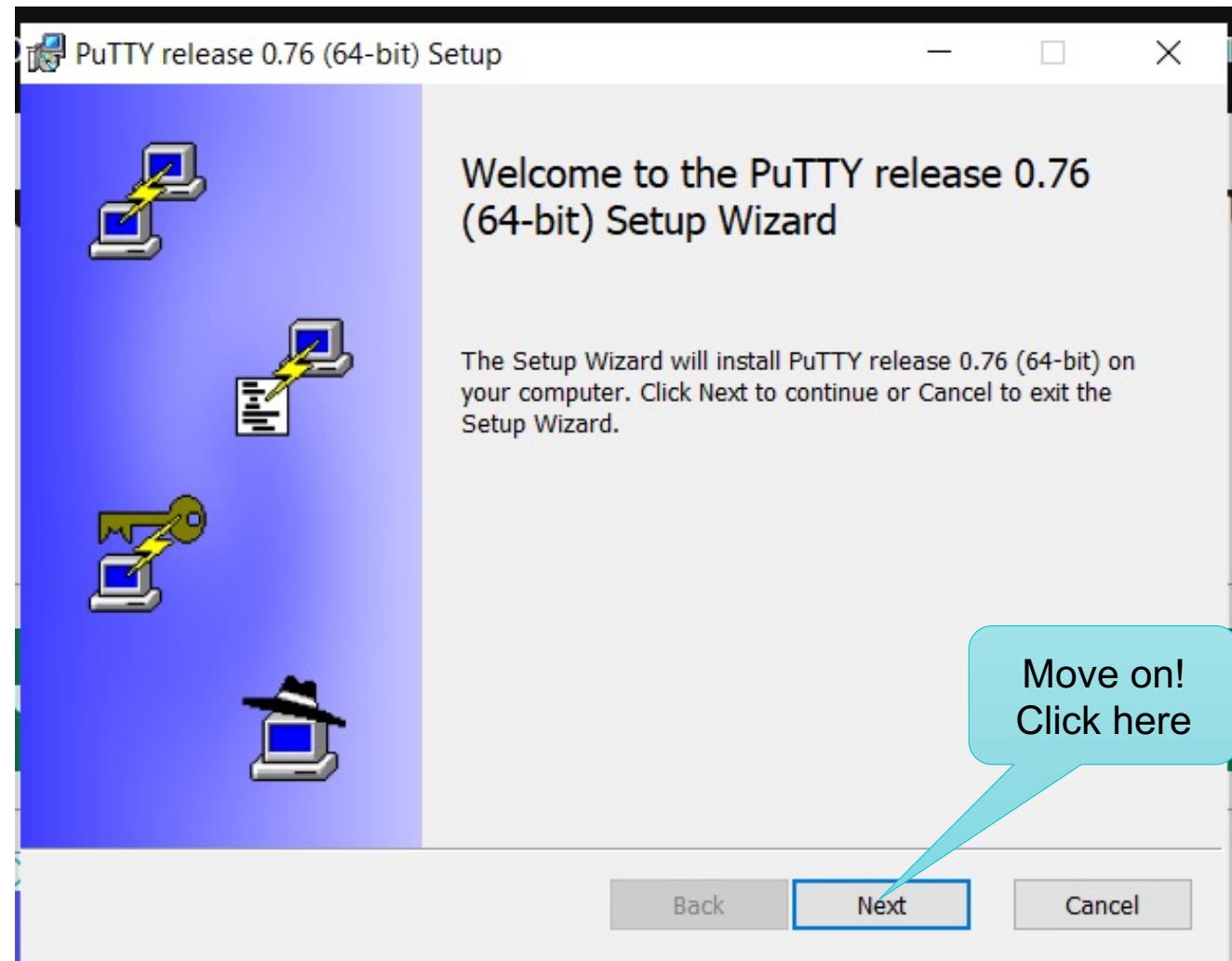
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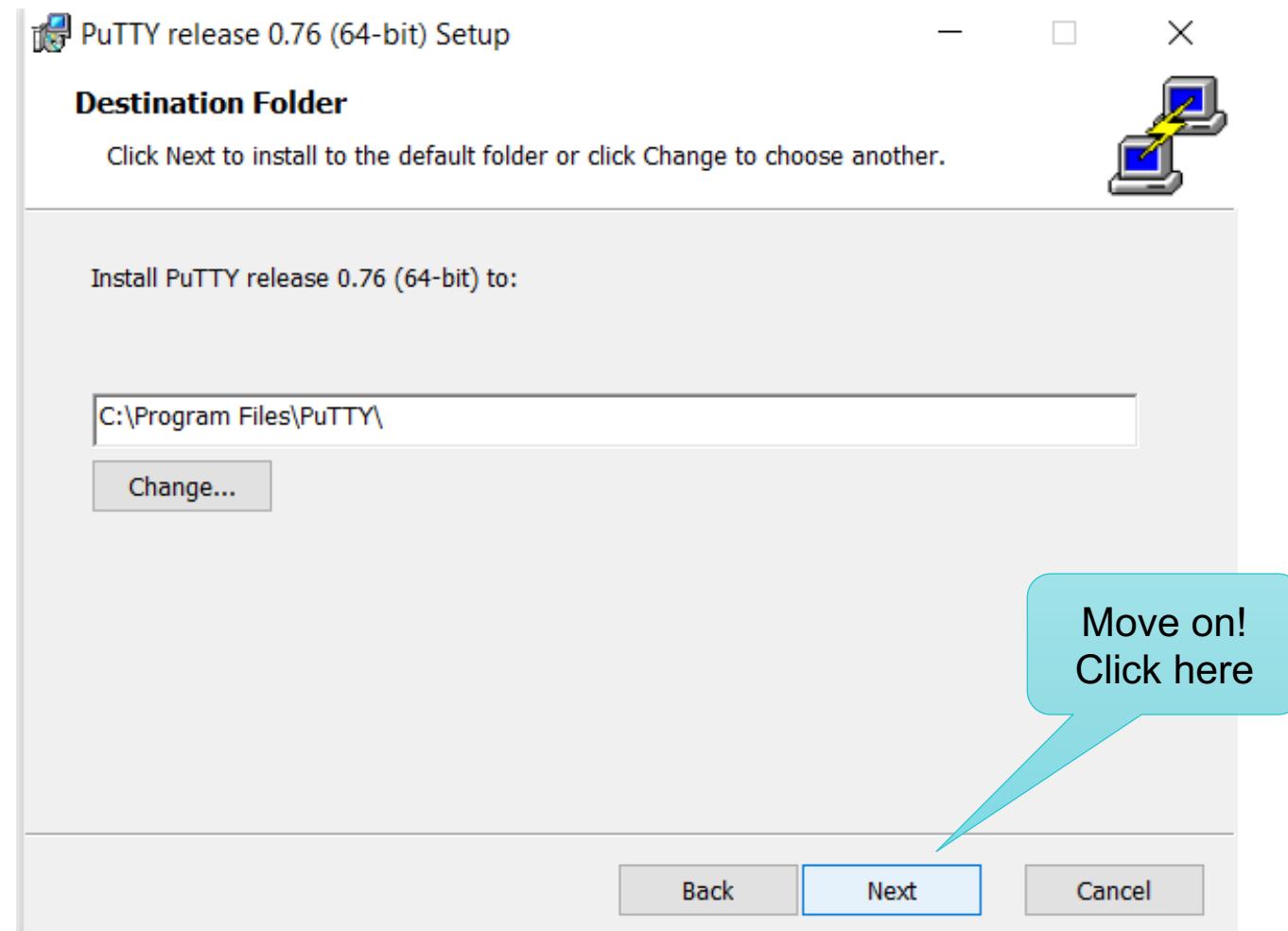


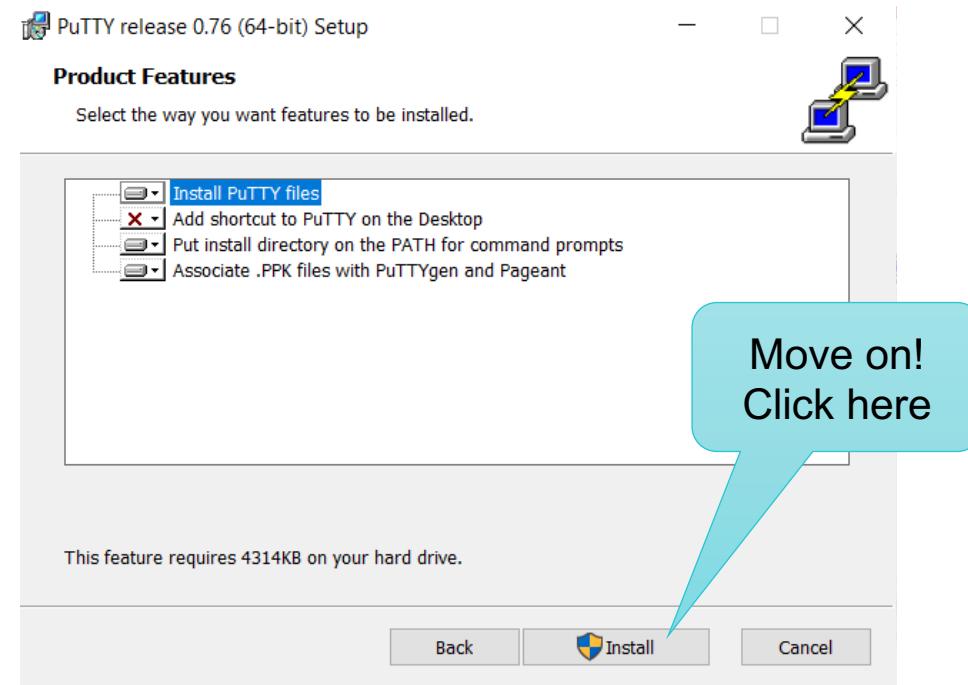
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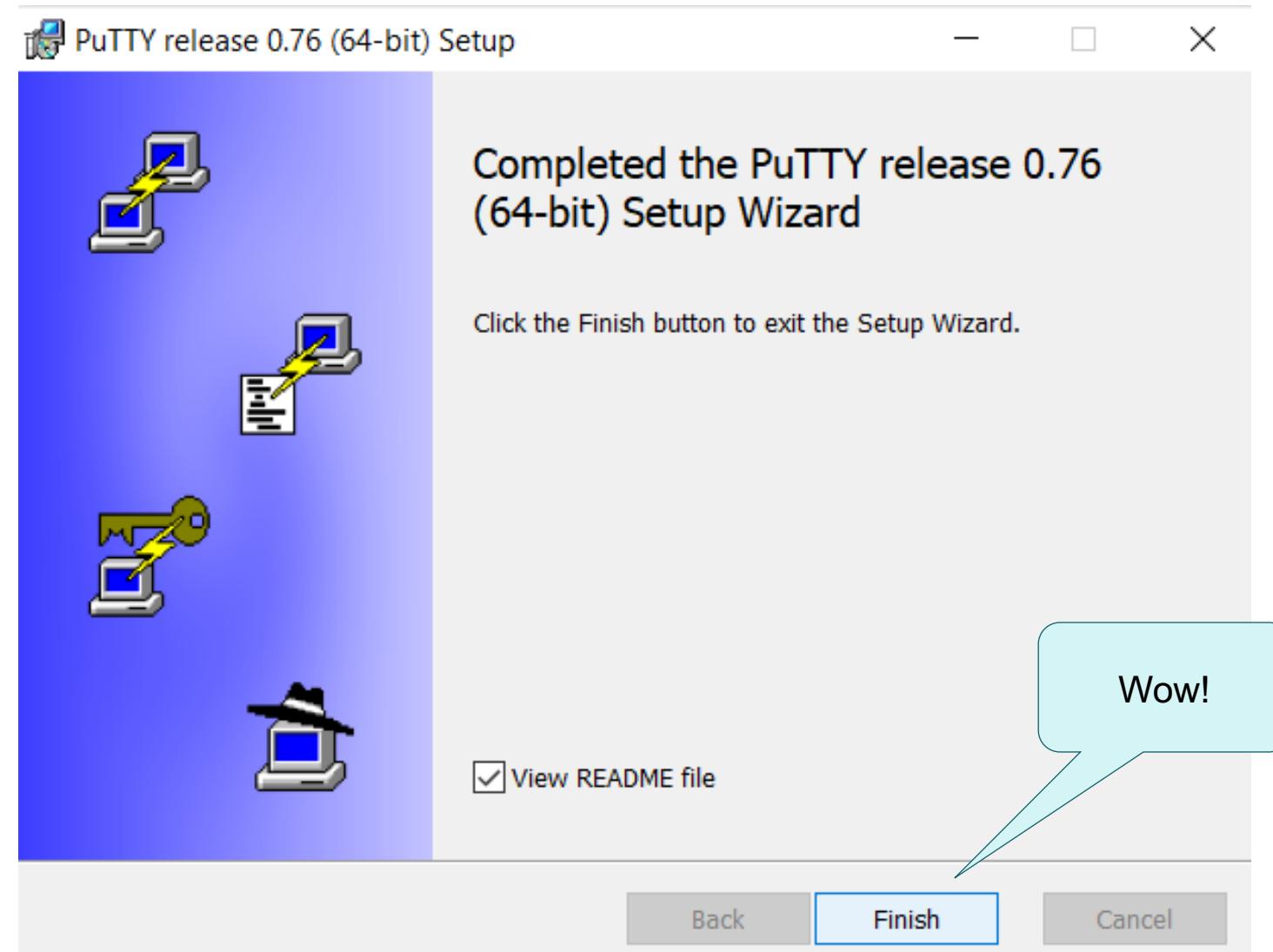
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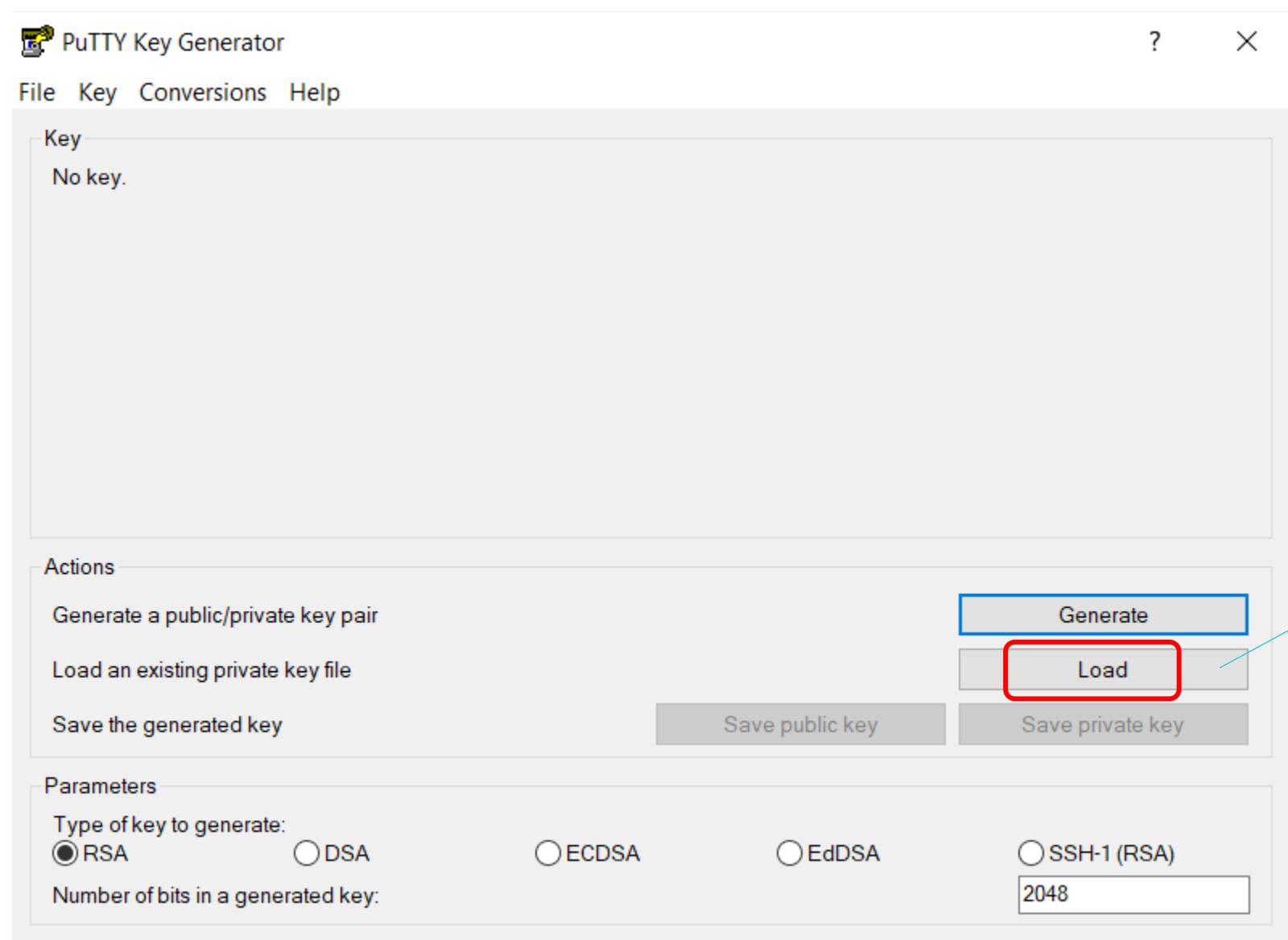
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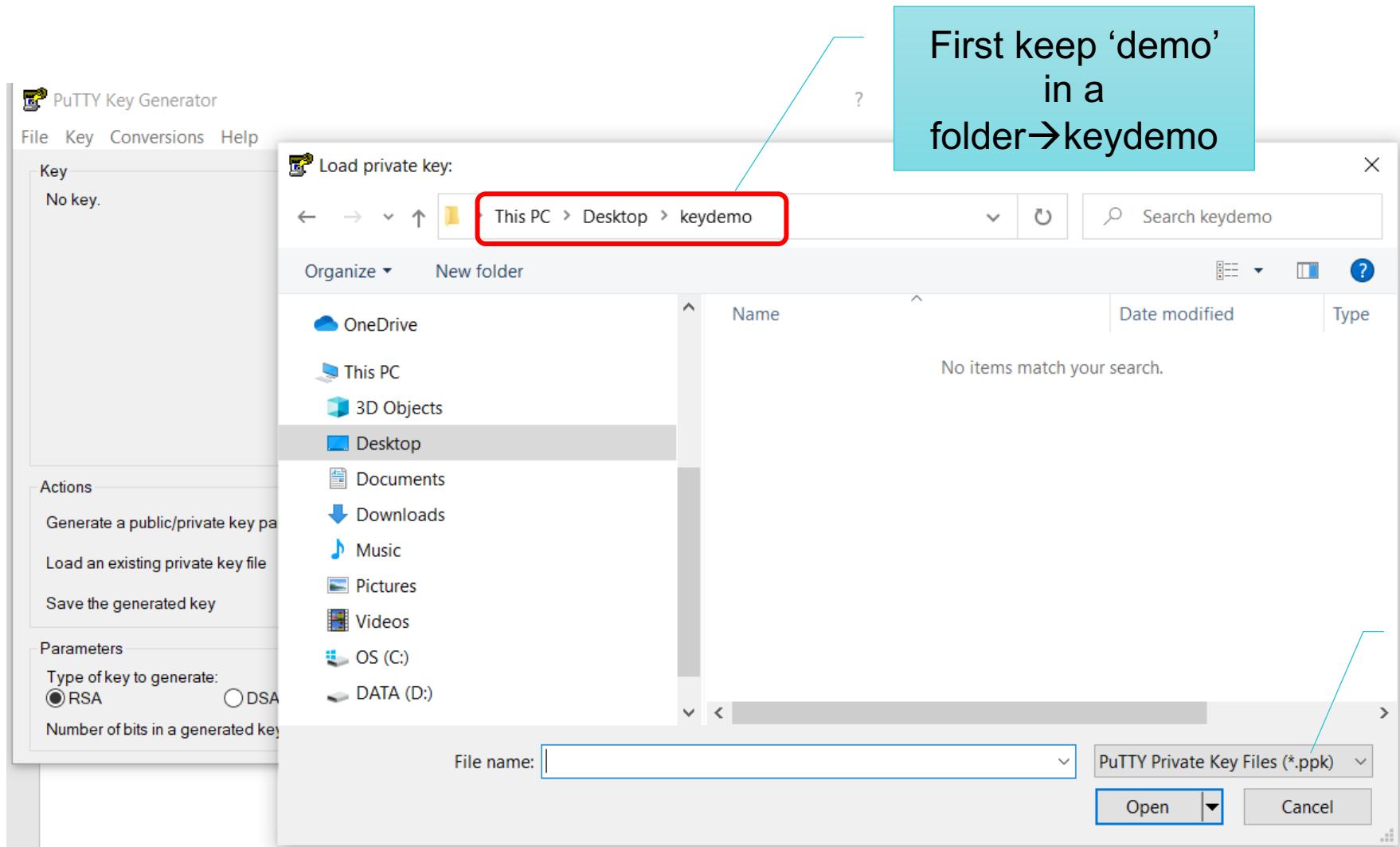
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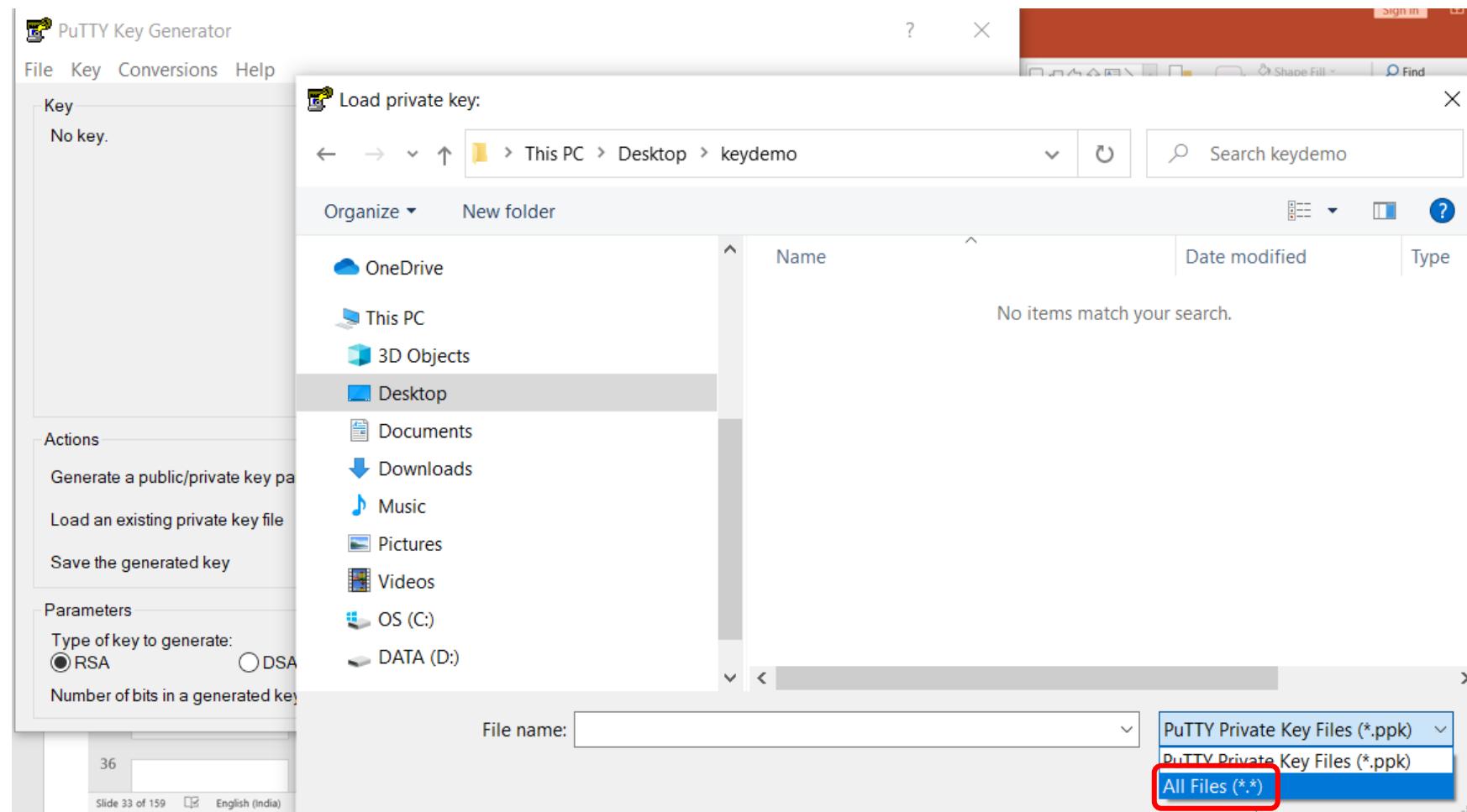
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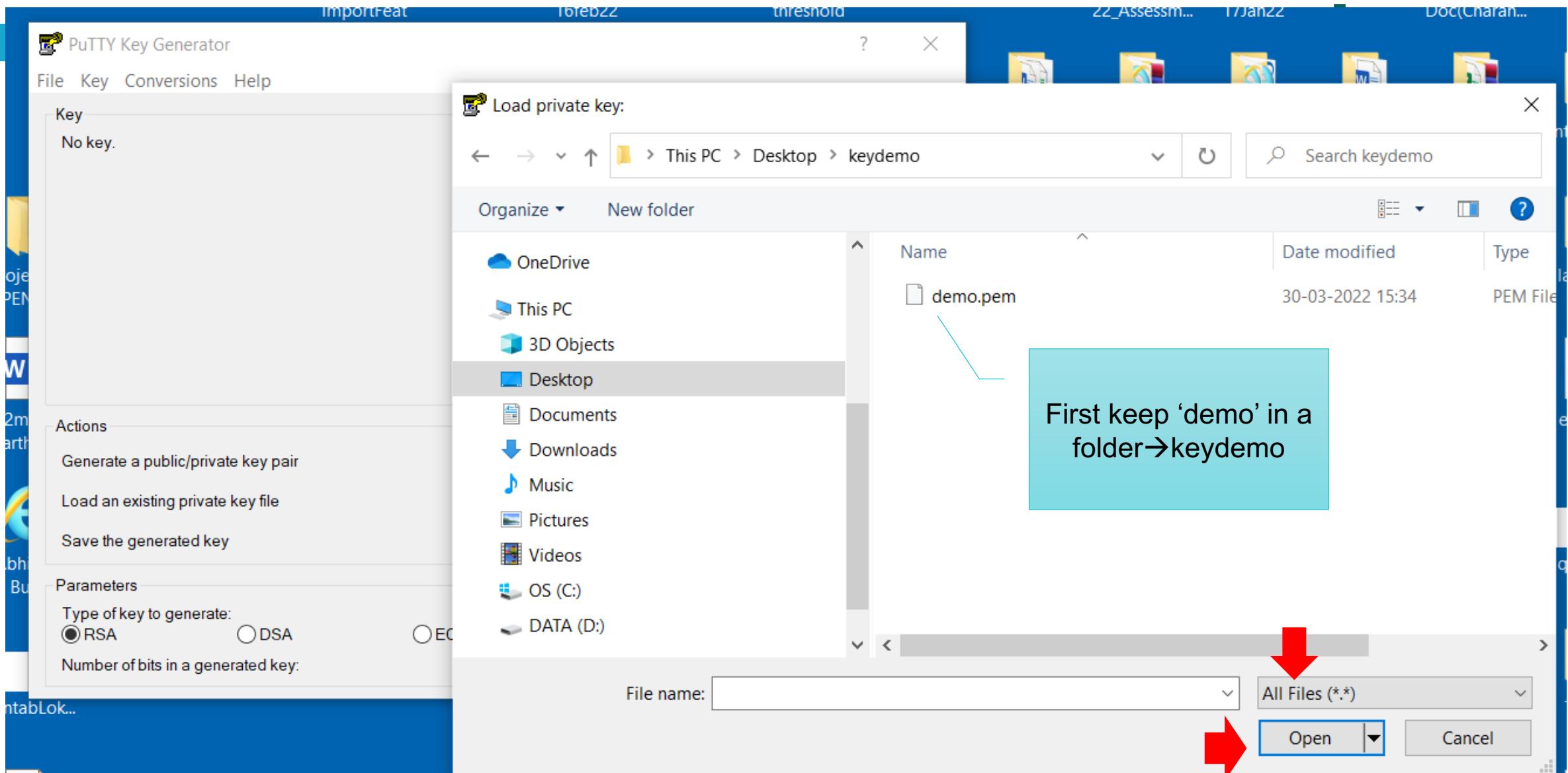


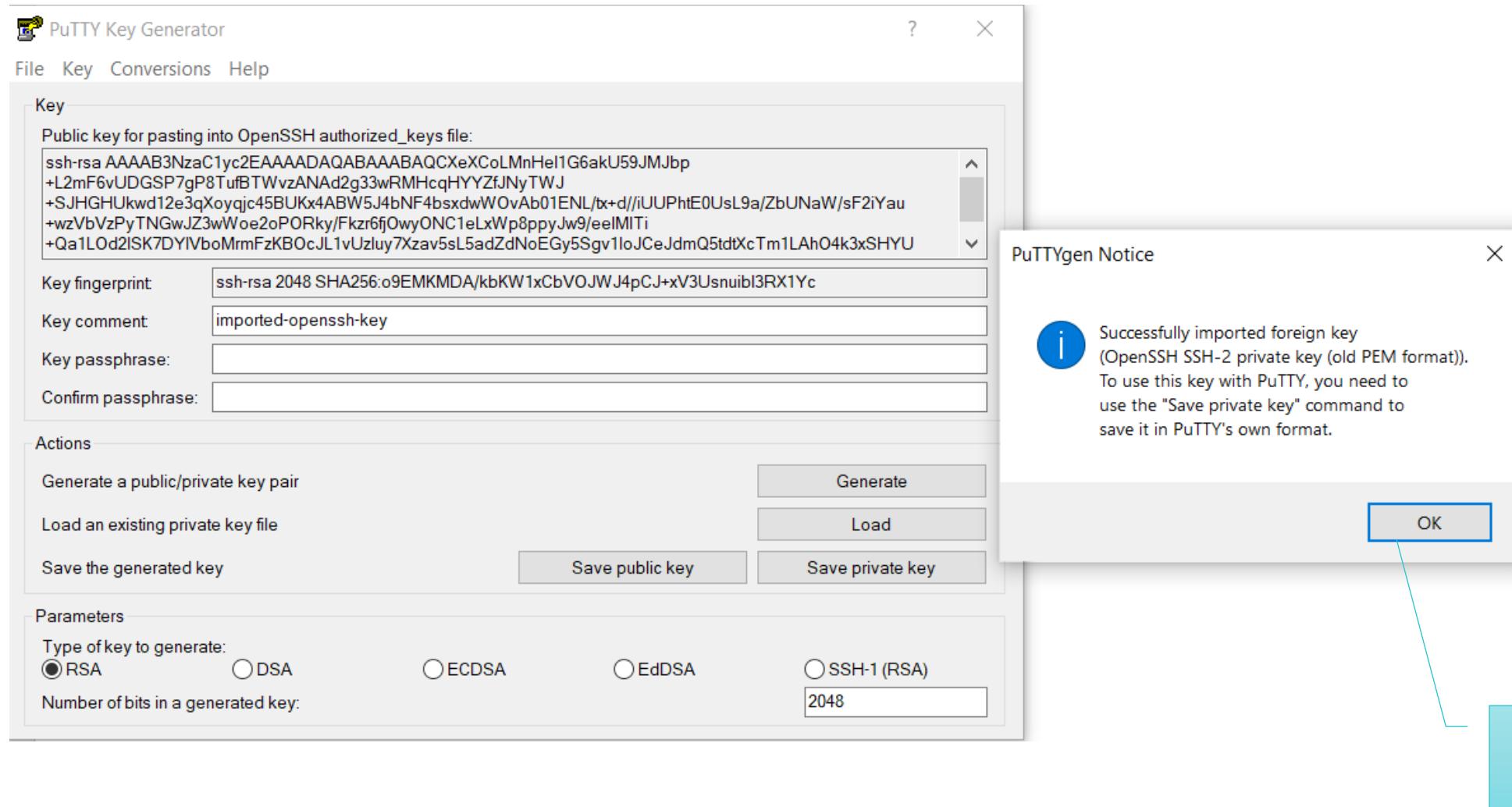
Click
'Load'



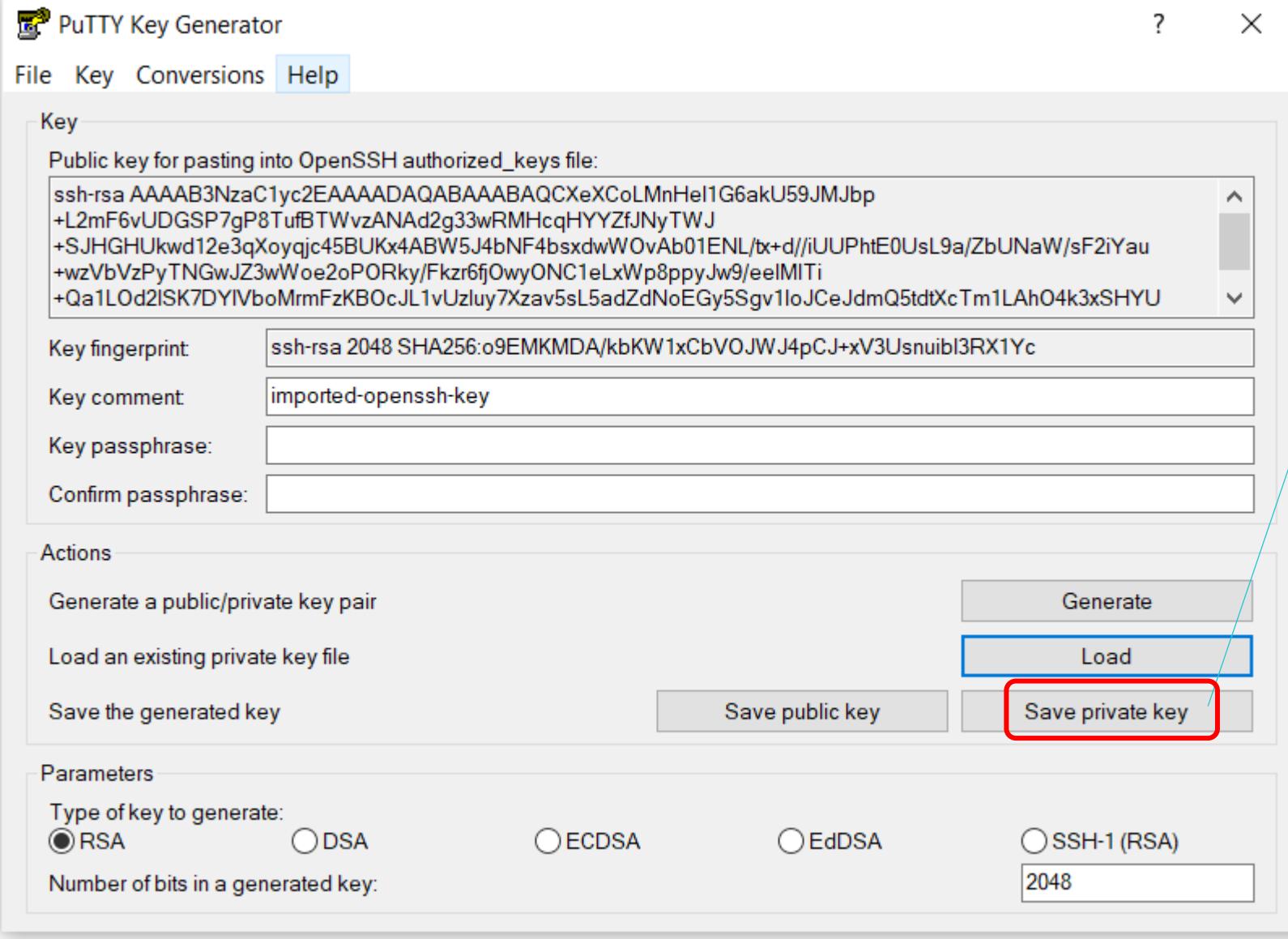


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Click 'ok'



1 Click here

PuTTYgen Warning

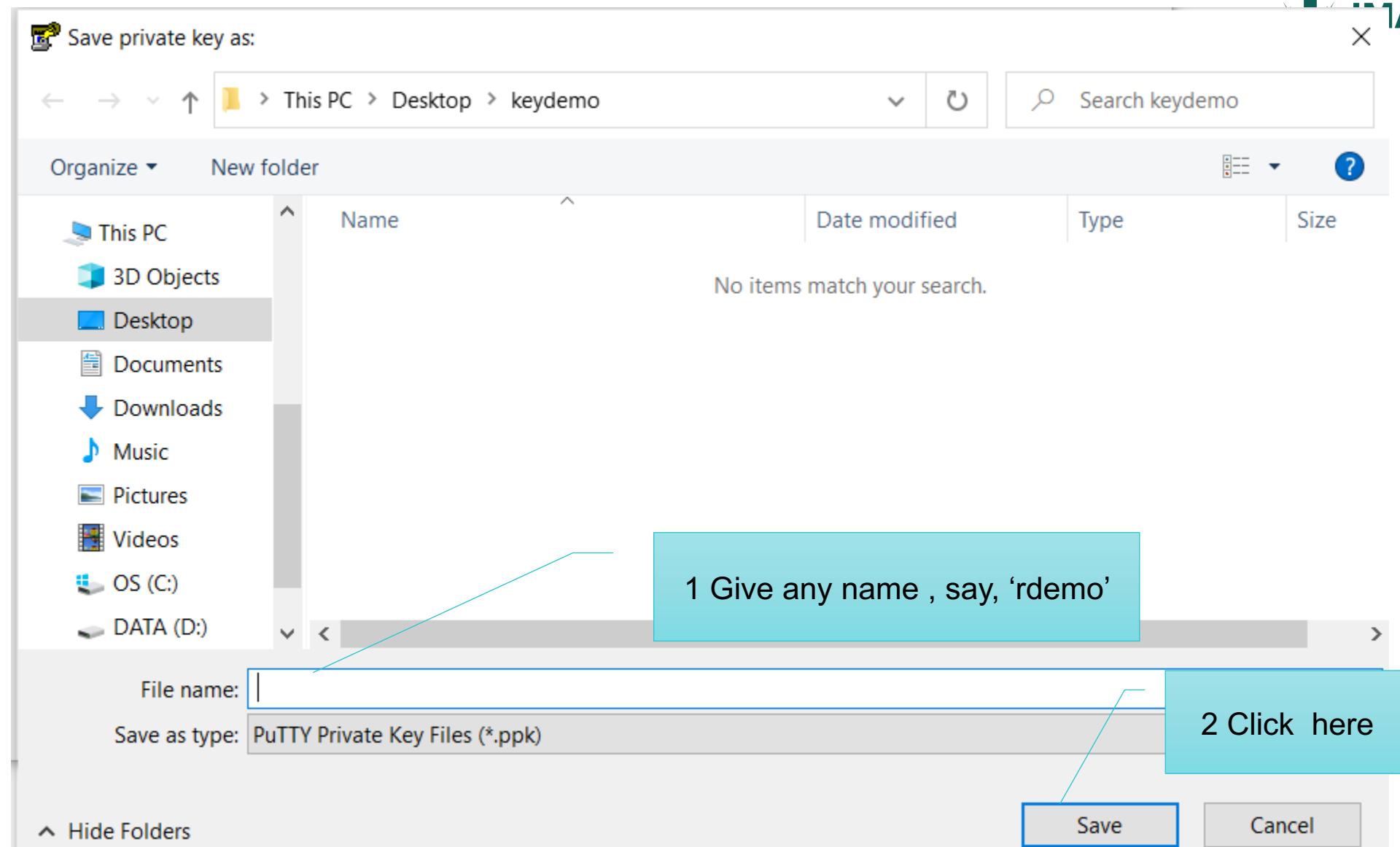


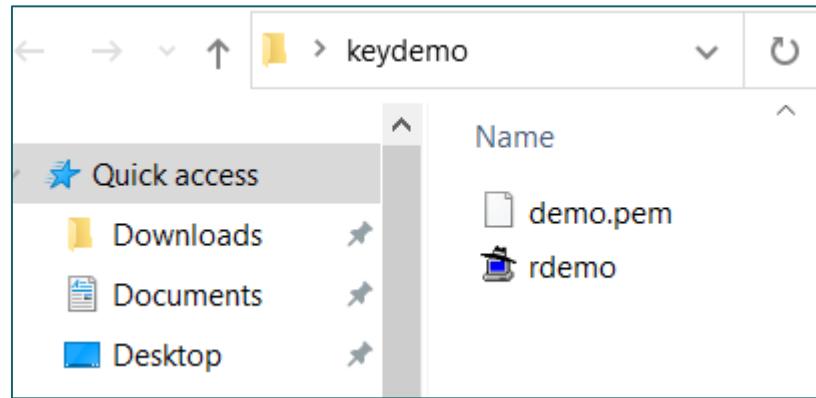
Are you sure you want to save this key
without a passphrase to protect it?

Yes

No

2 Click here





“demo” is having details of instance created in aws.
‘rdemo’ in the readable format for putty

Now we need WinSCP
for secure file transfer
from our machine to
aws server!



WinSCP



Downloadable software

WinSCP is a free and open-source SSH File Transfer Protocol, File Transfer Protocol, WebDAV, Amazon S3, and secure copy protocol client for Microsoft Windows. Its main function is secure file transfer between a local computer and a remote server.

[Wikipedia](#)

Size: 10 MB

License: GPL-3.0-only

Available in: 45 languages

Stable release: 5.19.6 / 22 February 2022

Operating system: Microsoft Windows

Developer: Martin Prikryl

Programming language: C++

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Project History · Screenshots

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Portable Use
WinSCP can be downloaded in the form ...
Executables · Installation · Configuration

WinSCP

WinSCP (Windows Secure Copy) is a free and open-source SSH File Transfer Protocol (SFTP), File Transfer Protocol (FTP), WebDAV, Amazon S3, and secure copy protocol (SCP) client for Microsoft Windows. Its main function is secure file transfer between a local computer and a remote server. Beyond this, WinSCP offers basic file manager and file synchronization functionality. For secure transfers, it u... Wikipedia

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WinSCP 5.19 is a major application update. New features and enhancements include:

- A complete list of files that are part of a background transfer can be shown.
- Support for PPK version 3 keys from PuTTY 0.75.
- Stream interface in .NET assembly.
- With SFTP protocol files can be streamed to stdout and from stdin in scripting.
- Support SHA-256 fingerprints of TLS/SSL certificates.
- Extension *Synchronize with another remote server*.
- Improved FTP support for VMS servers (and potentially for other non-Unix-like systems).
- Compatibility with Google Cloud Storage when using S3 protocol to access the buckets.
- List of all changes.



[DOWNLOAD WINSCP 5.19.6 \(18.9 MB\)](#)



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The [WinSCP-5.19.6-Setup.exe](#) is WinSCP installer.

It installs both WinSCP executables and translations.

After downloading WinSCP you might want to read [WinSCP installation guide](#).

Click here



WinSCP-5.19.6-Set....exe



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56

Select Setup Install Mode

X



Select install mode

WinSCP can be installed for all users (requires administrative privileges), or for you only.

Click this



Install for all users (recommended)

→ Install for me only

Cancel

Setup - WinSCP 5.19.6

License Agreement

Please read the following important information before continuing.



Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

You can also review this license and further details online at:
<https://winscp.net/eng/docs/license>

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Version 3, 29 June 2007

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Preamble

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Accept

Help Cancel

 Setup - WinSCP 5.19.6

— □ ×

**Setup Type**

What type of setup do you want?

 Typical installation (recommended)

- installs to default destination
- installs all components
- enables most typical features

 Custom installation

- allows full selection of destination, components and features

Move on

Help

Back

Next

Cancel

Setup - WinSCP 5.19.6

**Initial User Settings**

Please, select your preferred user interface options.

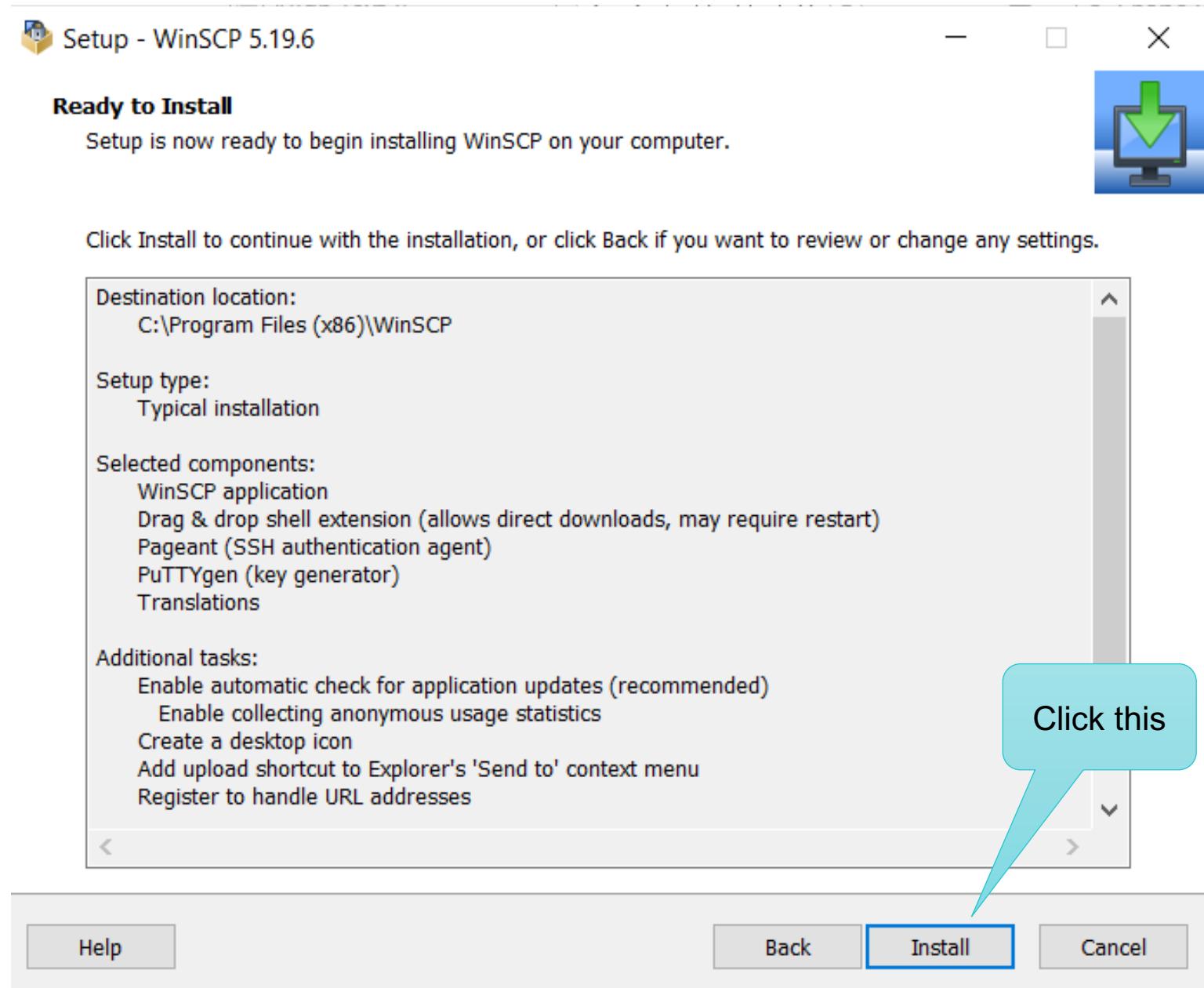
**User interface style** Commander

- two panels (left for local directory, right for remote directory)
- keyboard shortcuts like in Norton Commander (and other similar programs as Total Commander, Midnight Commander...)
- drag & drop to/from both panels

 Explorer

- only remote directory
- keyboard shortcuts like in Windows File Explorer
- drag & drop

Move on





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← → C 🔒 winscp.net/eng/docs/after_installation?ver=5.19.6&lang=en&utm_source=winscp&utm_medium=setup&utm_campaign=5.19.6&prevver=&automatic=0

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WinSCP

Free SFTP, SCP, S3 and FTP client for Windows

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After Installation

Thanks for installing WinSCP!

WinSCP is a popular SFTP client and FTP client for Microsoft Windows! Use WinSCP to copy files between your computer and remote servers using FTP, FTPS, SCP, SFTP, WebDAV or S3 file transfer protocols.

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What Do You Do Next?

Basic Tasks

If you have installed WinSCP to use its interactive GUI mode, you may find one of the following guides useful:

- Connect to FTP server or SFTP server
- Connect to Amazon S3 service
- Upload files to FTP server or SFTP server

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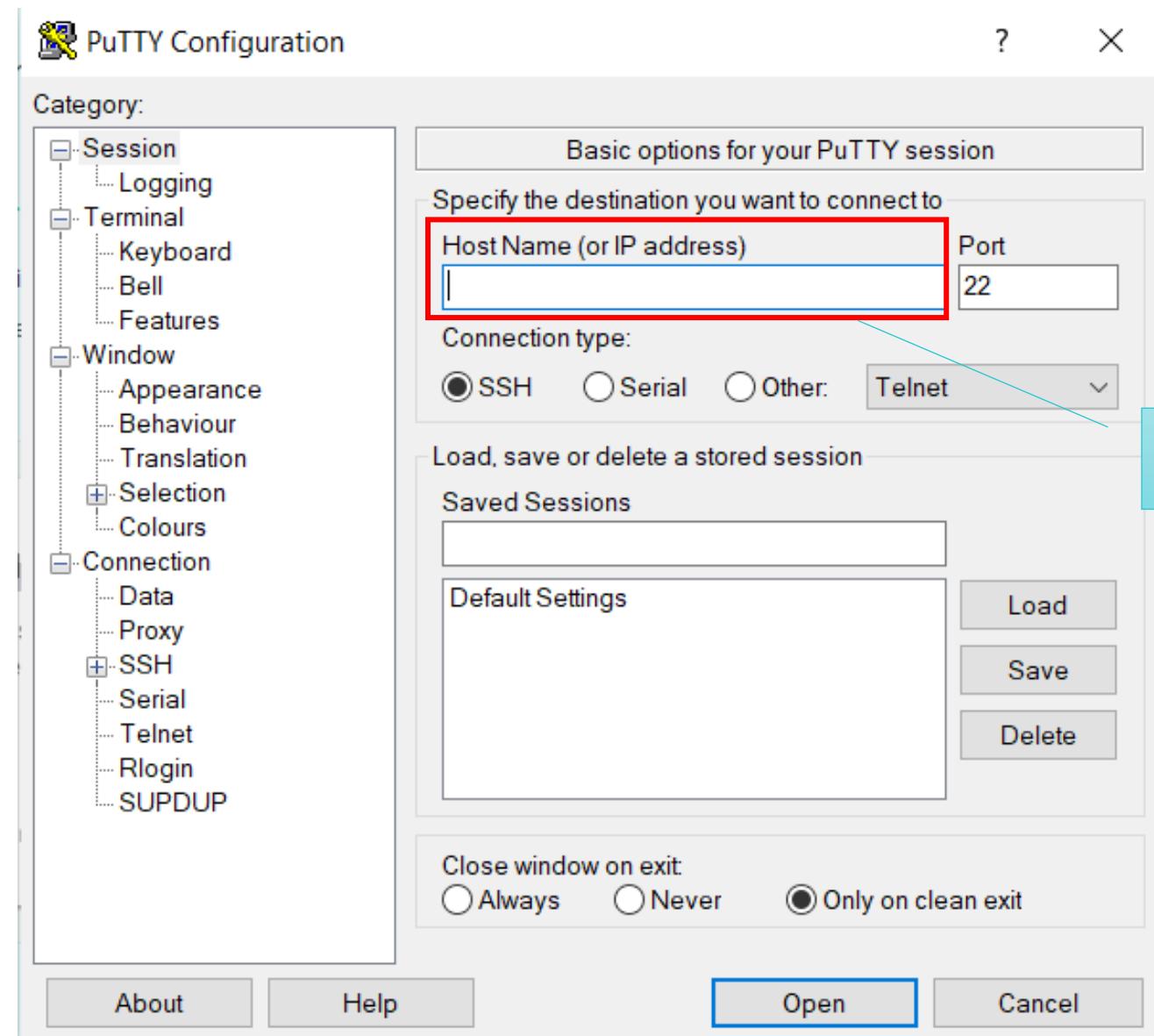
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Instances (1/1) Info

Search

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-34-217-65-18.us-w...	34.217.65.18

Go to 'instances' and copy this

Instance: i-0d08329569f54e731

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-0d08329569f54e731	Public IPv4 address 34.217.65.18 open address	Private IPv4 addresses 172.31.28.185
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-34-217-65-18.us-west-2.compute.amazonaws.com open address
Hostname type IP address is 172.31.28.185 we need 2 seconds to update	Private IP DNS name (IPv4 only)	

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Instances (1/1) Info

Name Instance ID Instance state Instance type Status

i-0d08329569f54e731 Running t2.micro 2/2

Instance: i-0d08329569f54e731

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Public IPv4 address copied

34.217.65.18 | open address ↗

Instance state Running

Private IP DNS name (IPv4 only)

Copy this and paste here

PutTY Configuration

Category: Session, Logging, Terminal, Keyboard, Bell, Features, Window, Appearance, Behaviour, Translation, Selection, Colours, Connection, Data, Proxy, SSH, Serial, Telnet, Rlogin, SUPDUP

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): 34.217.65.18 Port: 22

Connection type: SSH (radio button selected), Serial, Other: Telnet

Load, save or delete a stored session

Saved Sessions

Default Settings

Load Save Delete

Close window on exit: Always, Never, Only on clean exit

Public IPv4 34.217.65.18

Private IPv4 addresses 172.31.28.185

Public IPv4 DNS ec2-34-217-65-18.us-west-2.compute.amazonaws.com | open address ↗

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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Snapshots New

Instances (1/1) Info

Name Instance ID Instance state Instance type

i-0d08329569f54e731 Running t2.micro

Click 'Data'

PutTY Configuration

Category: Session Logging Terminal Window Appearance Behaviour Translation Selection Colours Connection Data Proxy SSH Serial Telnet Rlogin SUPDUP

Auto-login username When username is not specified:
 Prompt Use system username (Dr Vinod)

Terminal details Terminal-type string xterm Terminal speeds 38400,38400

Environment variables Variable Add Value Remove

Private IPv4 addresses 172.31.28.185
Public IPv4 DNS ec2-34-217-65-18.us-west-2.compute.amazonaws.com | open address

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Instances (1/1) Info

Search

Name Instance ID Instance state Instance type Status check

Name	Instance ID	Instance state	Instance type	Status check
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed

Connect Instance state Actions Launch instances

Click 'Connect'

Instance: i-0d08329569f54e731

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Public IPv4 address copied

Instance ID: i-0d08329569f54e731

IPv6 address: -

Hostname type: IP address in 172.31.20.105 vs guest 2 compute interval

Private IP DNS name (IPv4 only):

Private IPv4 addresses: 172.31.28.185

Public IPv4 DNS: ec2-34-217-65-18.us-west-2.compute.amazonaws.com | open address

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69

Name	Instance ID	Instance state	Instance type	Status check
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed

41 WhatsApp | 1 new job for 'Analytics R Python' | Connect to instance | EC2 Manager

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Connect to instance

Connect to instance Info

Connect to your instance i-0d08329569f54e731 using any of these options

EC2 Instance Connect Session Manager SSH client EC2 Serial Console

Instance ID: i-0d08329569f54e731

Public IP address: 34.217.65.18

User name: ubuntu

Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect



41 WhatsApp x | M 1 new job for 'Analytics R Python' x Connect to instance | EC2 Manager x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Connect to instance

Connect to instance Info

Connect to your instance i-0d08329569f54e731 using any of these options

EC2 Instance Connect Session Manager SSH client EC2 Serial Console

Instance ID i-0d08329569f54e731

Public IP address 34.217.65.18

User name **ubuntu**

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

PuTTY Configuration

Category: Session, Logging, Terminal, Keyboard, Bell, Features, Window, Appearance, Behaviour, Translation, Selection, Colours, Connection, Data, Proxy, SSH, Serial, Telnet, Rlogin, SUPDUP.

Data to send to the server

Login details

Auto-login username **ubuntu** (circled)

When username is not specified:

Prompt (radio button selected) Use system username (Dr Vinod)

Terminal details

Terminal-type string xterm

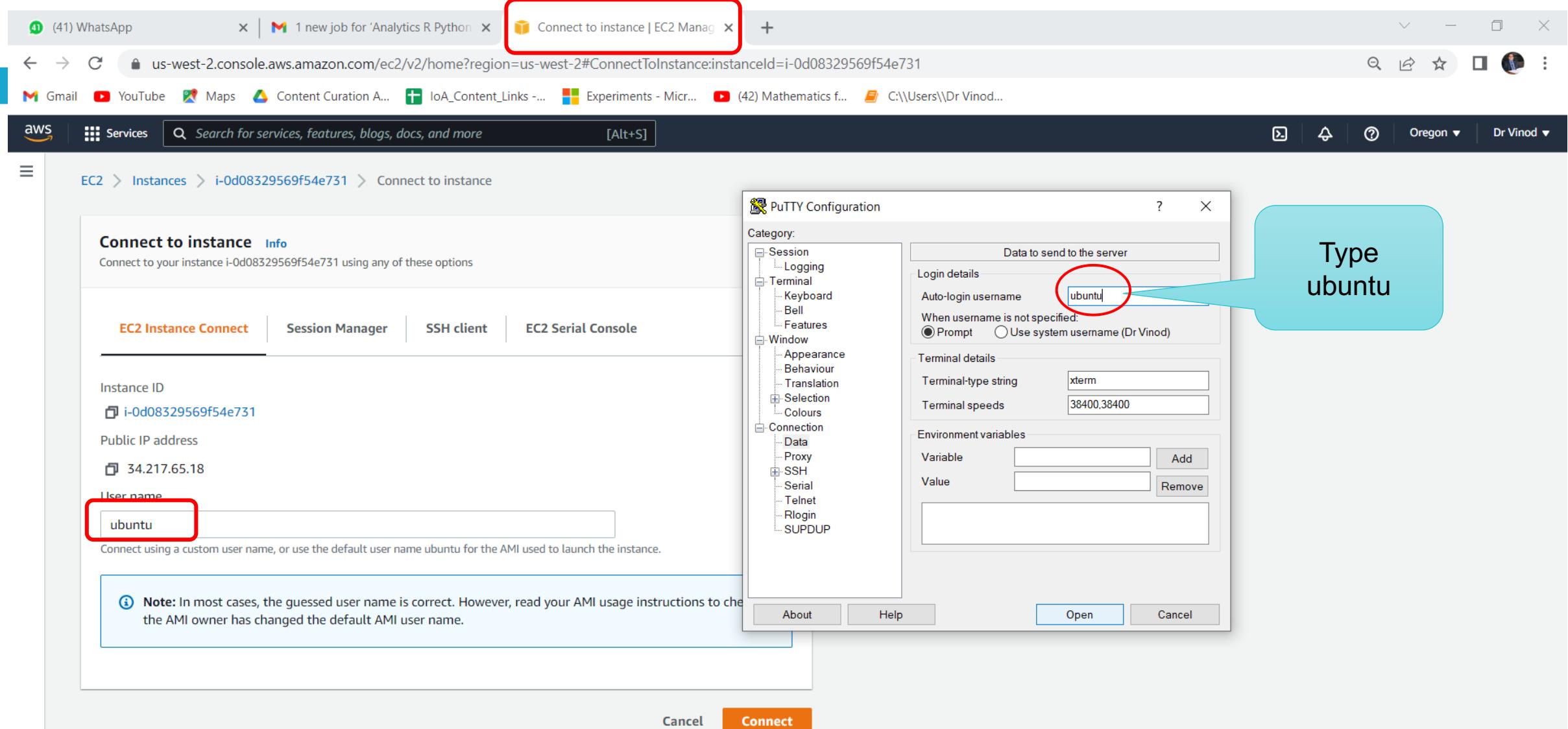
Terminal speeds 38400,38400

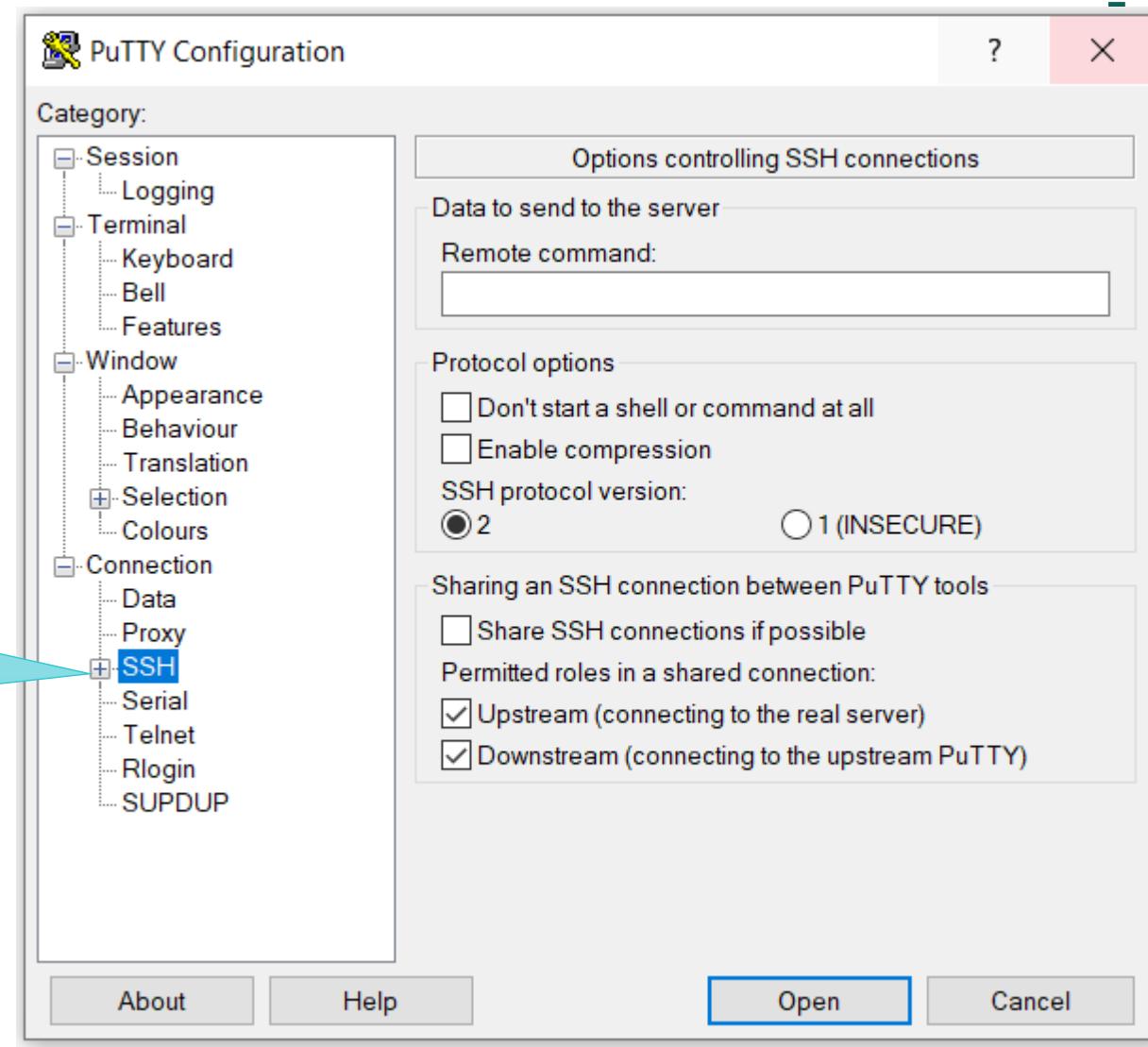
Environment variables

Variable Value Add Remove

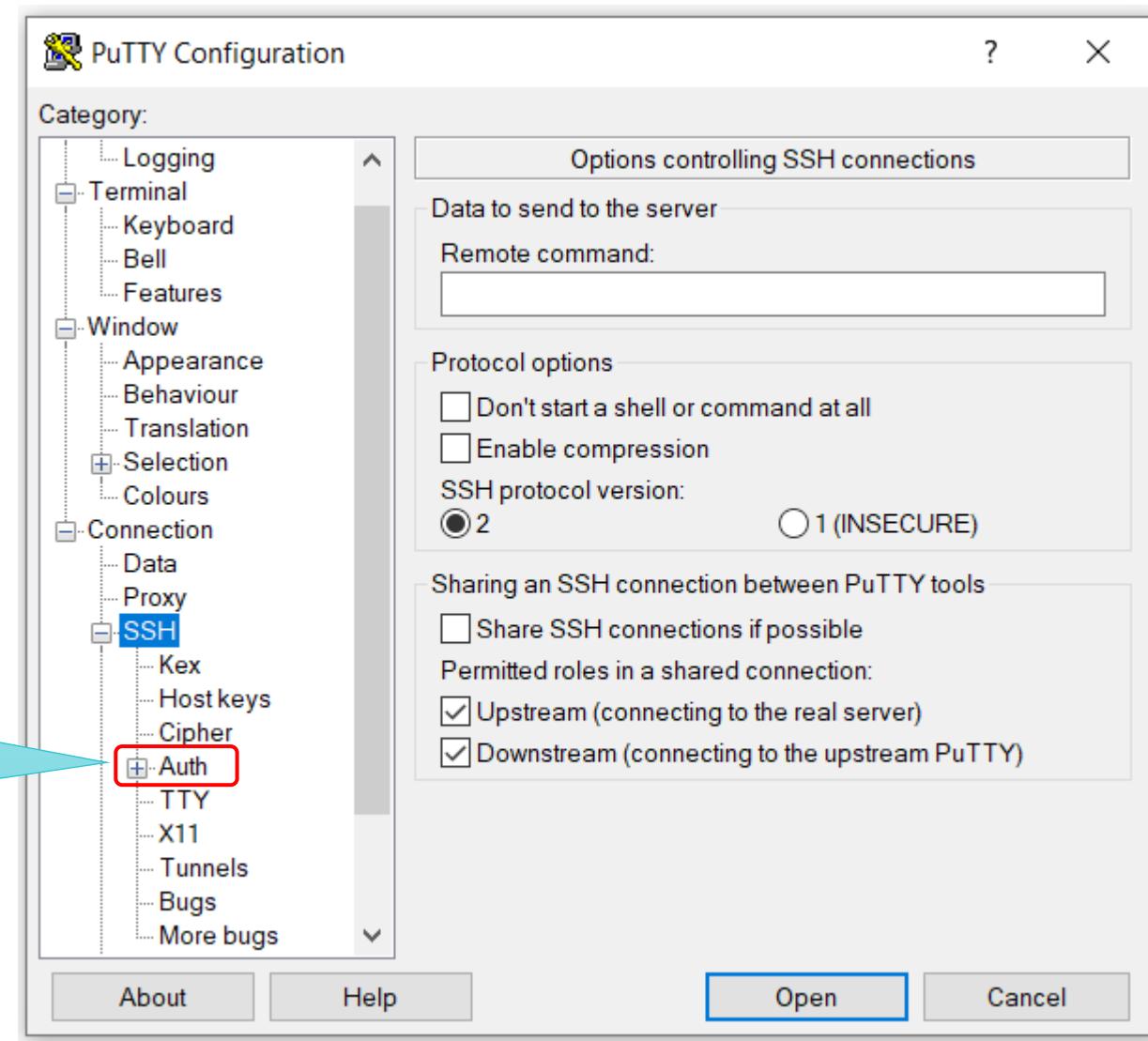
About Help Open Cancel

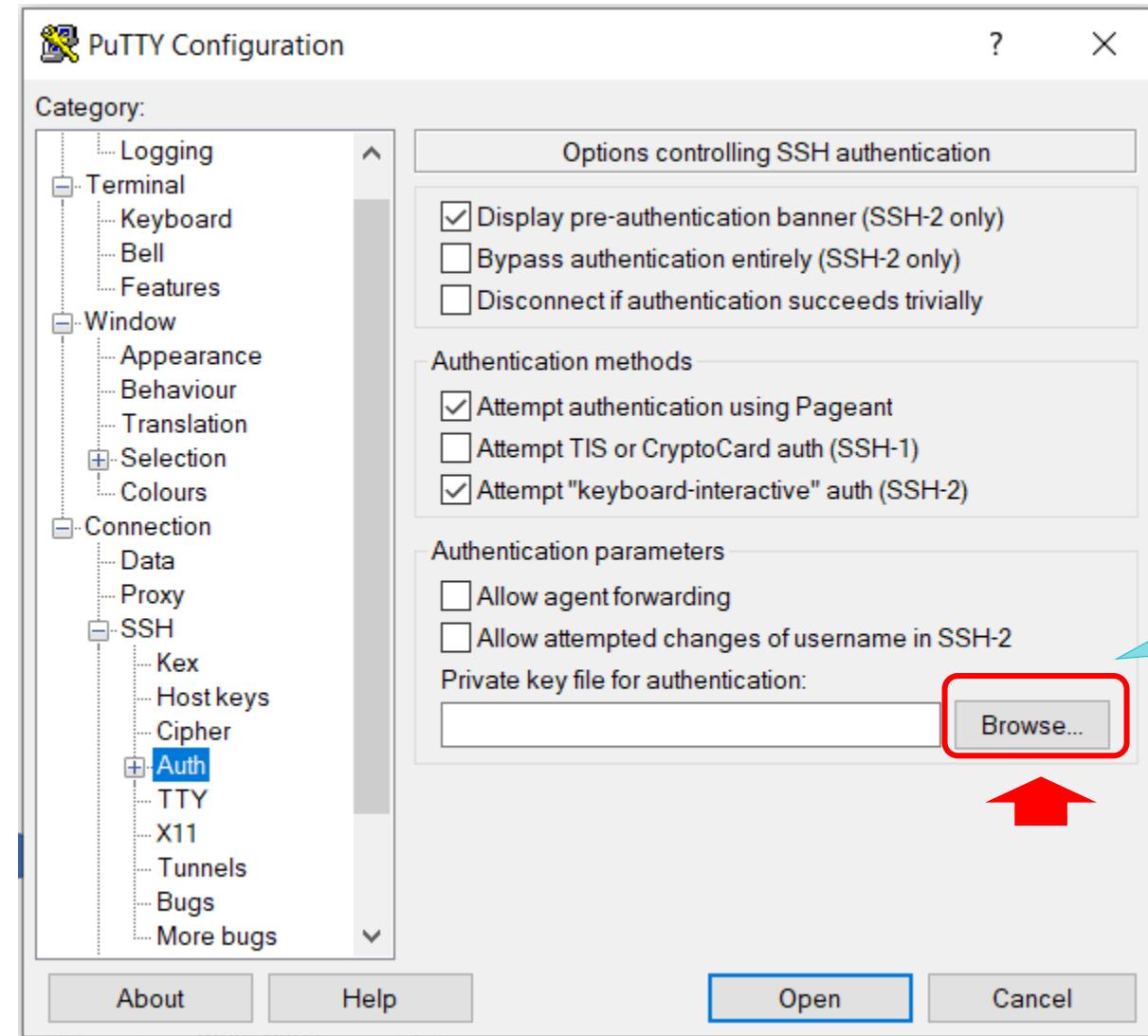
Cancel Connect

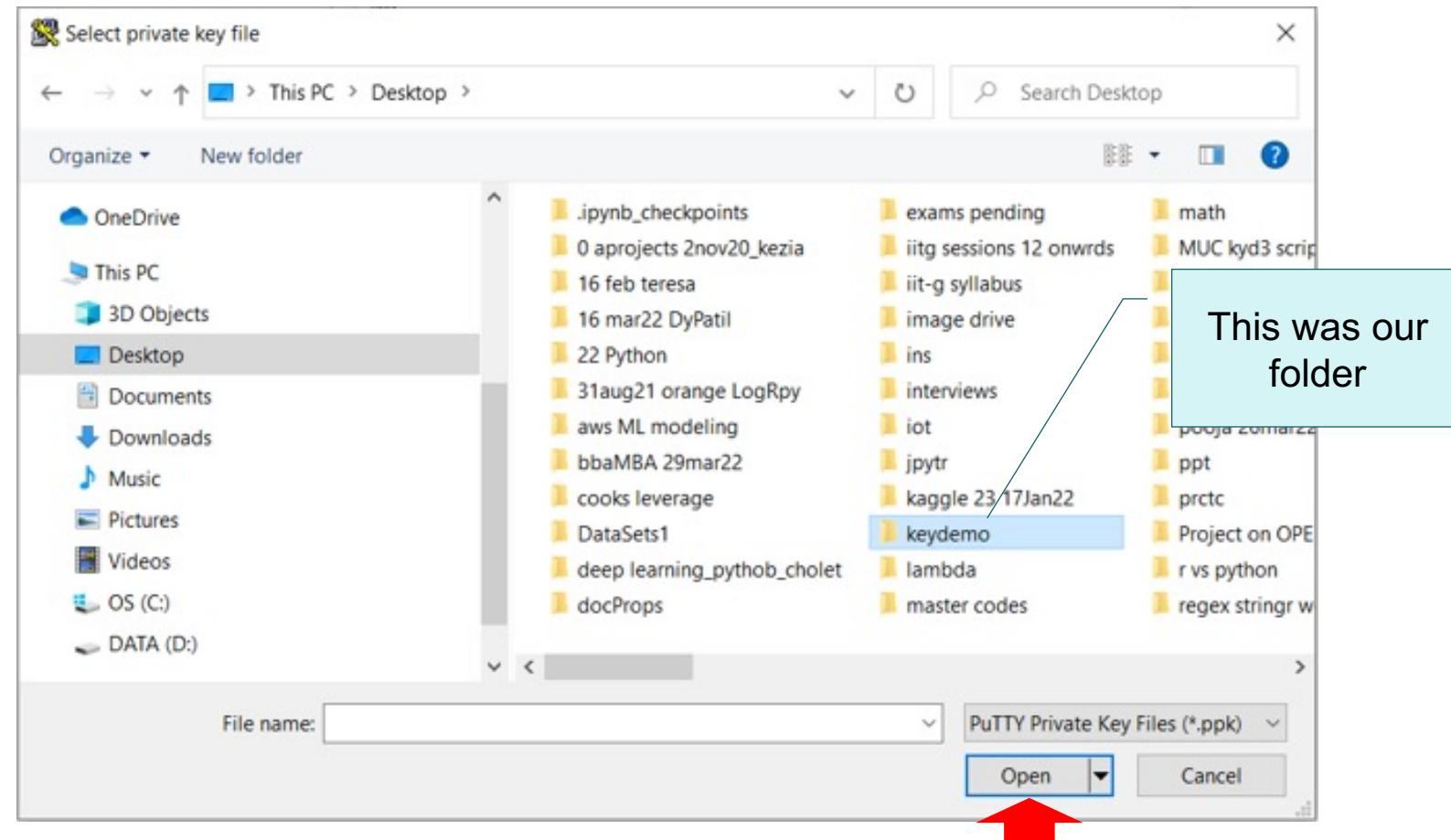


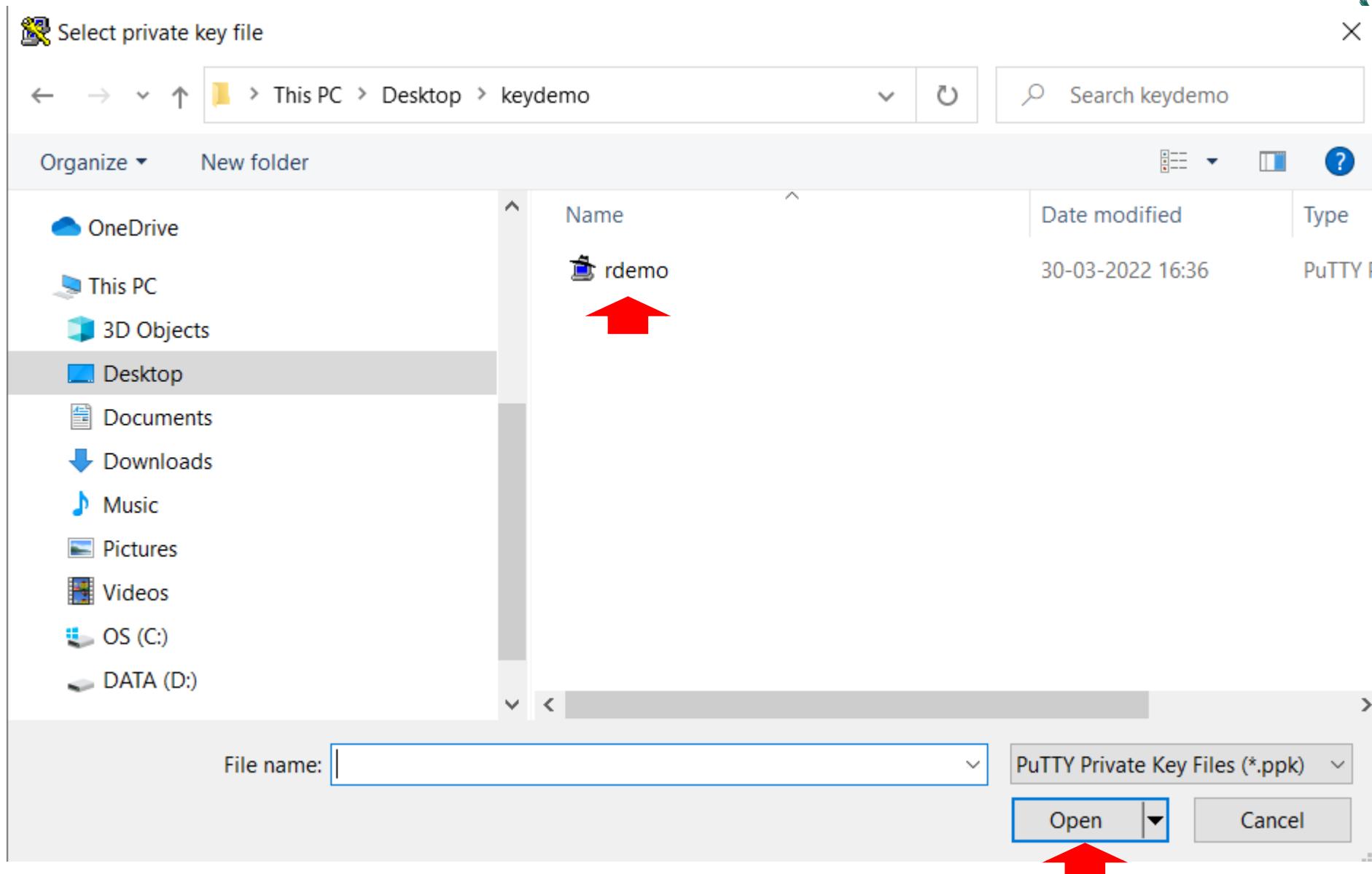


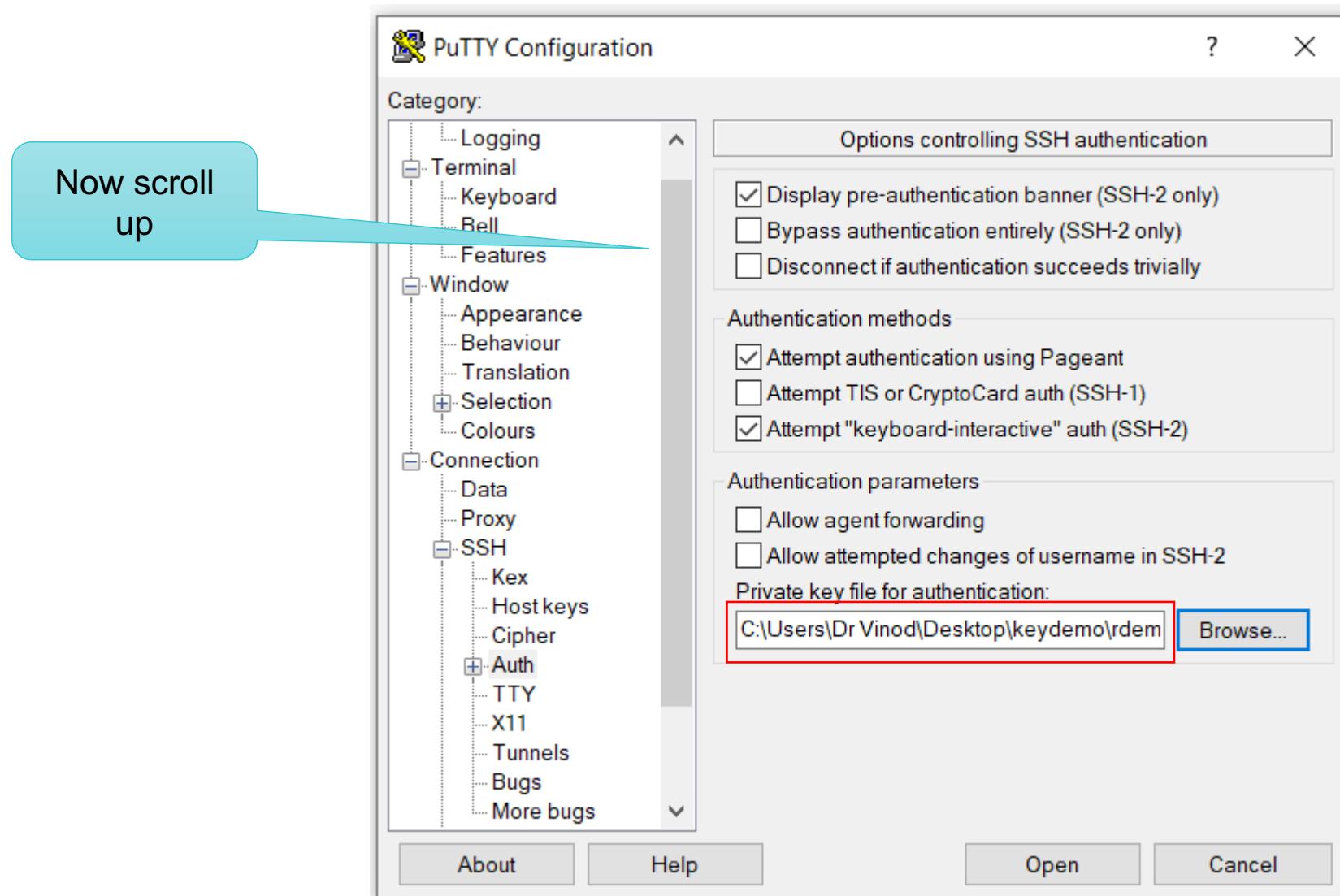
Be at
PuTTY
and select
SSH and
click on +



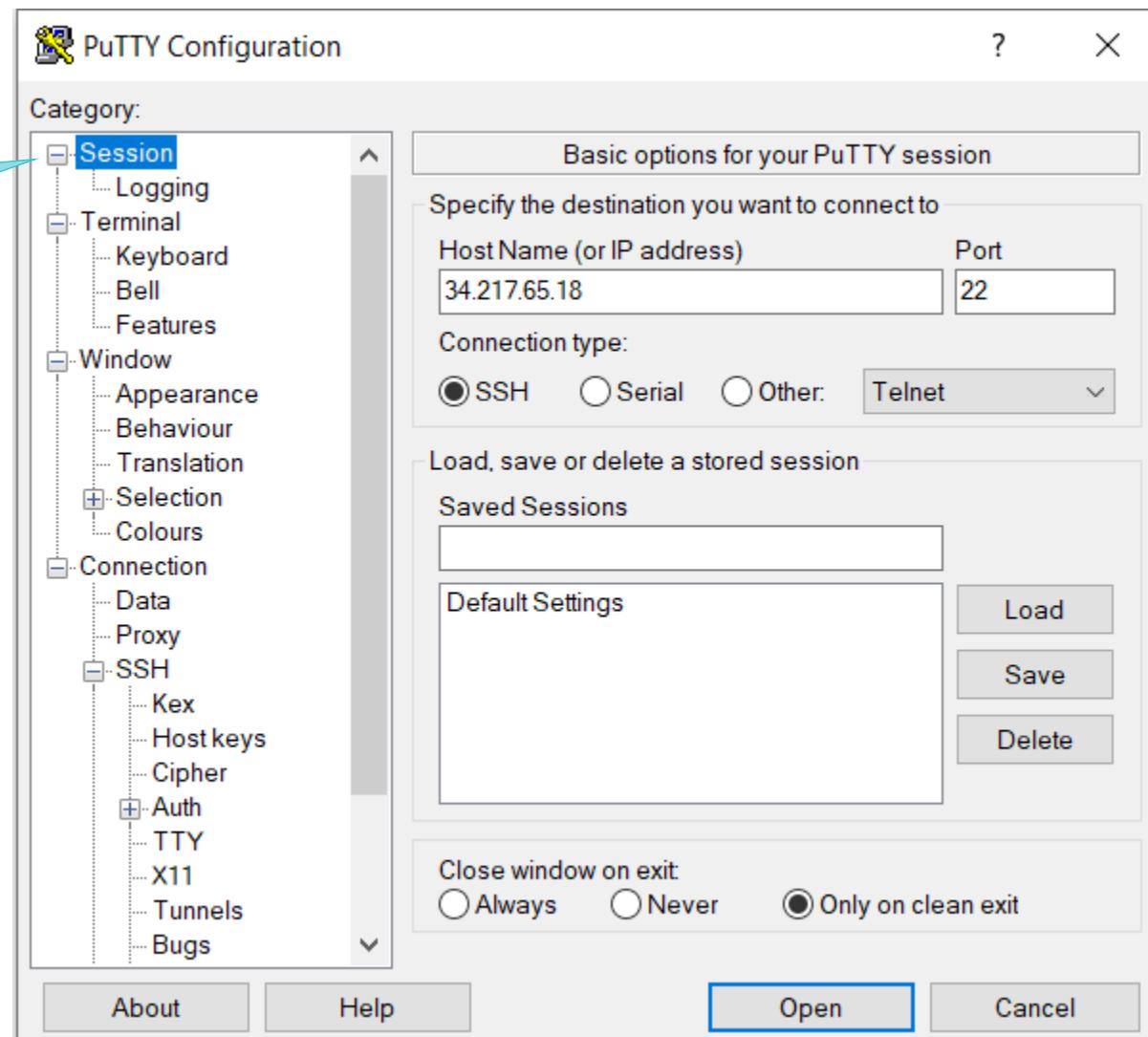


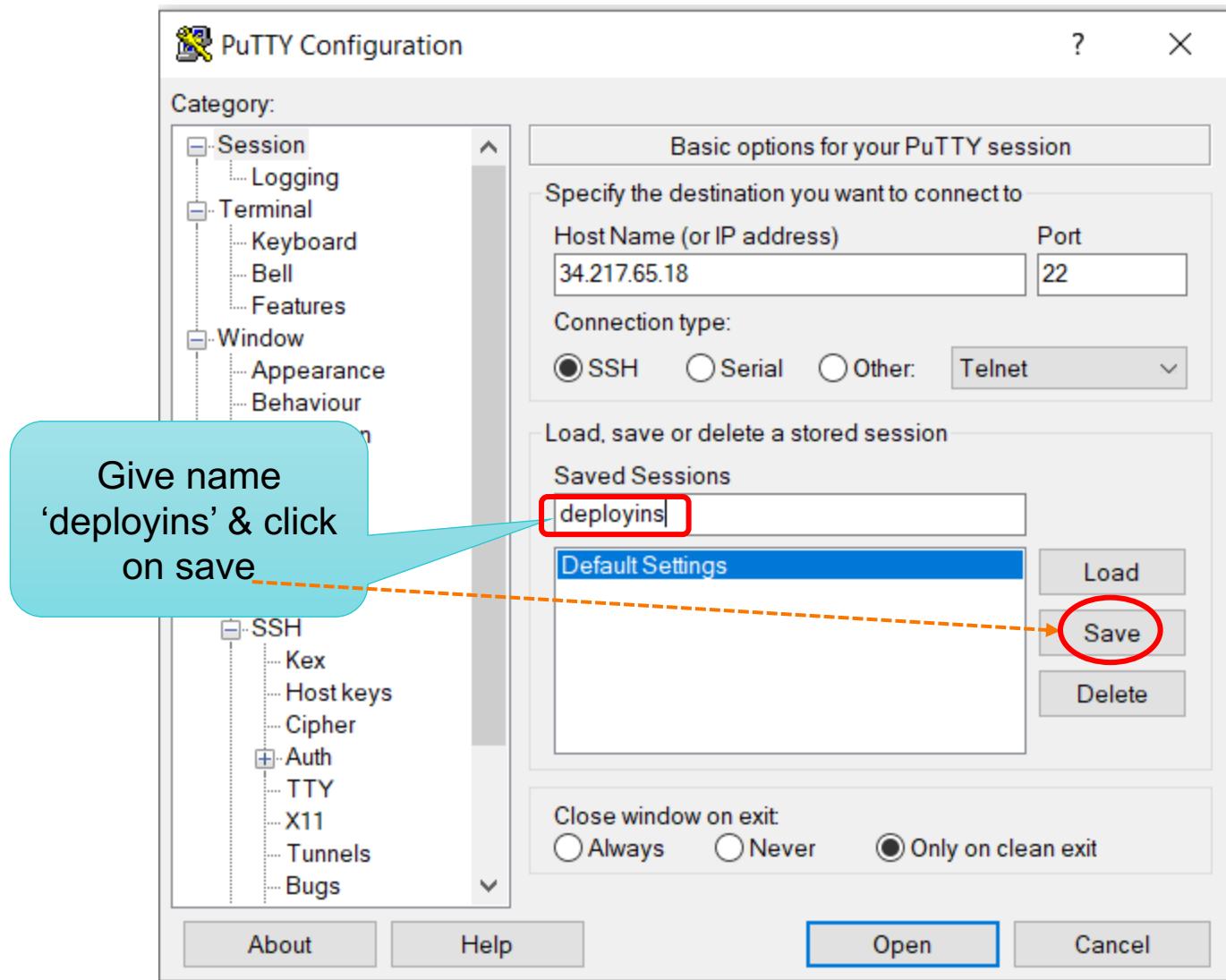


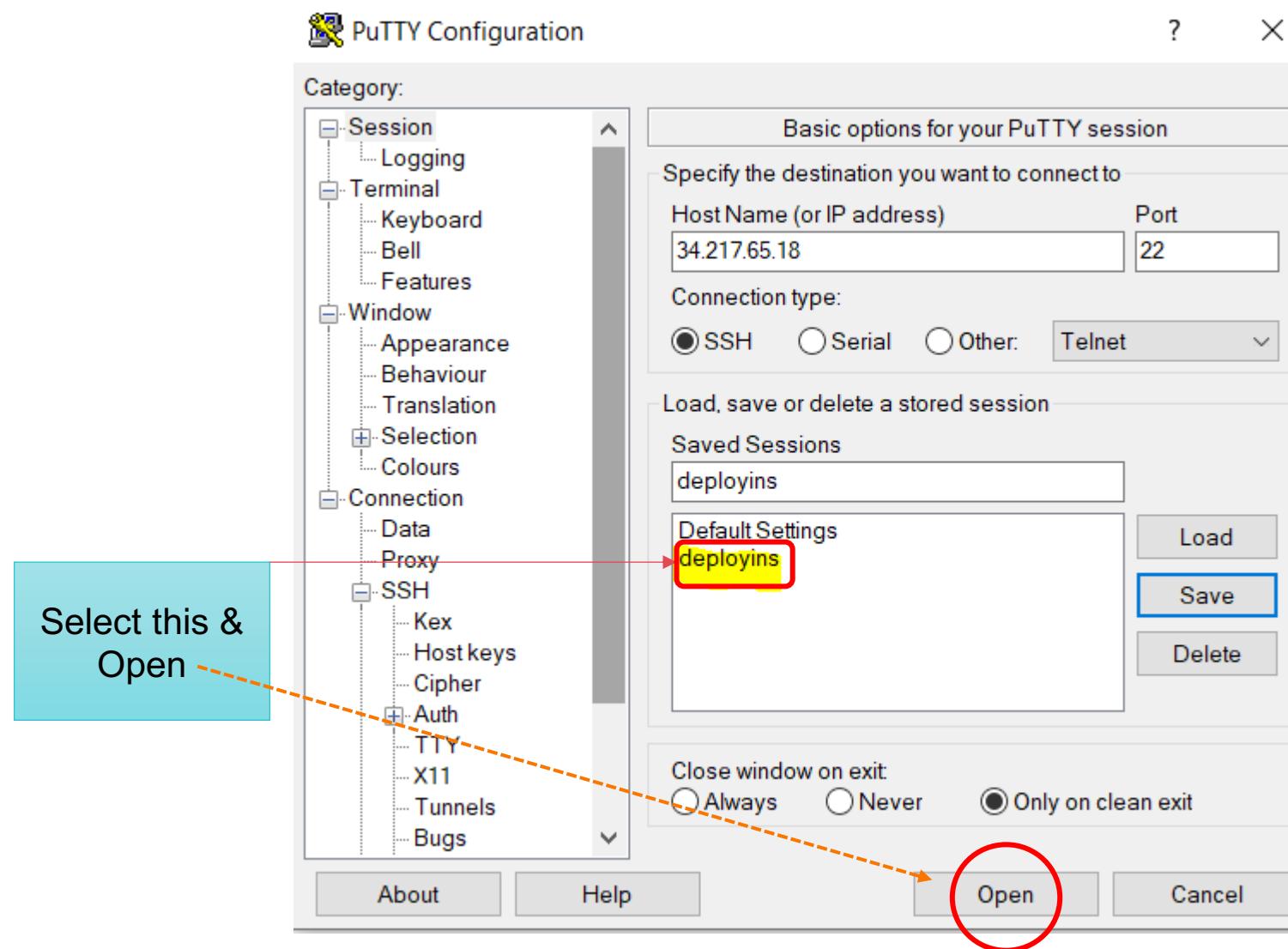


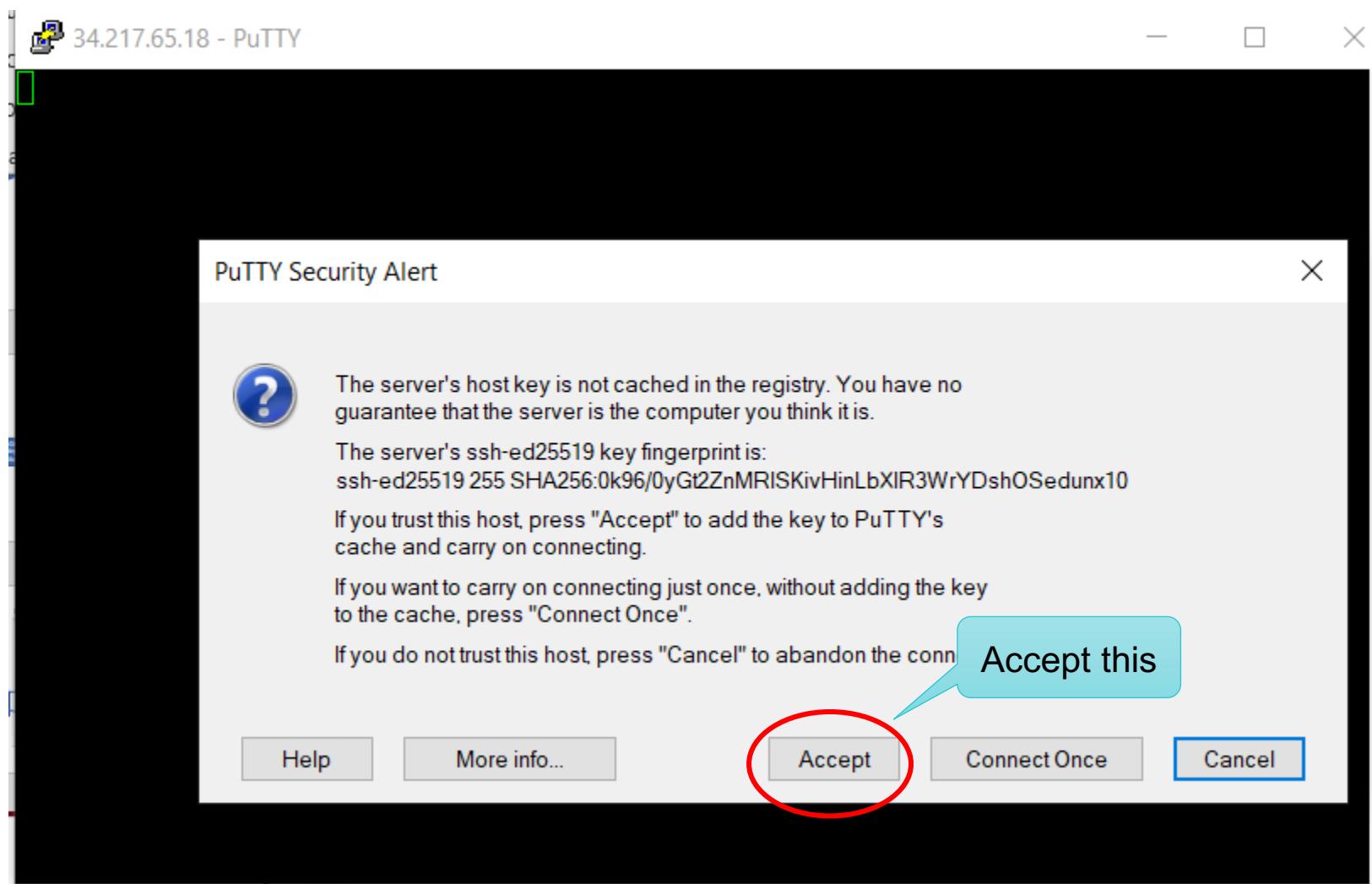


Be at PuTTY and select Session









```
ubuntu@ip-172-31-28-185: ~
```

```
Using username "ubuntu".  
Authenticating with public key "imported-openssh-key"  
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1060-aws x86_64)
```

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

```
System information as of Fri Apr 1 09:09:40 UTC 2022
```

```
System load: 0.0 Processes: 97  
Usage of /: 23.1% of 7.69GB Users logged in: 0  
Memory usage: 26% IP address for eth0: 172.31.28.185  
Swap usage: 0%
```

```
* Ubuntu Pro delivers the most comprehensive open source security and  
compliance features.
```

```
https://ubuntu.com/aws/pro
```

```
17 updates can be applied immediately.
```

```
To see these additional updates run: apt list --upgradable
```

```
*** System restart required ***
```

```
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.
```

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

```
ubuntu@ip-172-31-28-185:~$
```



You will land
up on this
page!

```
ubuntu@ip-172-31-28-185: ~
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Fri Apr 1 09:09:40 UTC 2022

System load: 0.0          Processes: 97
Usage of /: 23.1% of 7.69GB Users logged in: 0
Memory usage: 26%          IP address for eth0: 172.31.28.185
Swap usage: 0%

* Ubuntu Pro delivers the most comprehensive open source security and
compliance features.

https://ubuntu.com/aws/pro

17 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

*** System restart required ***

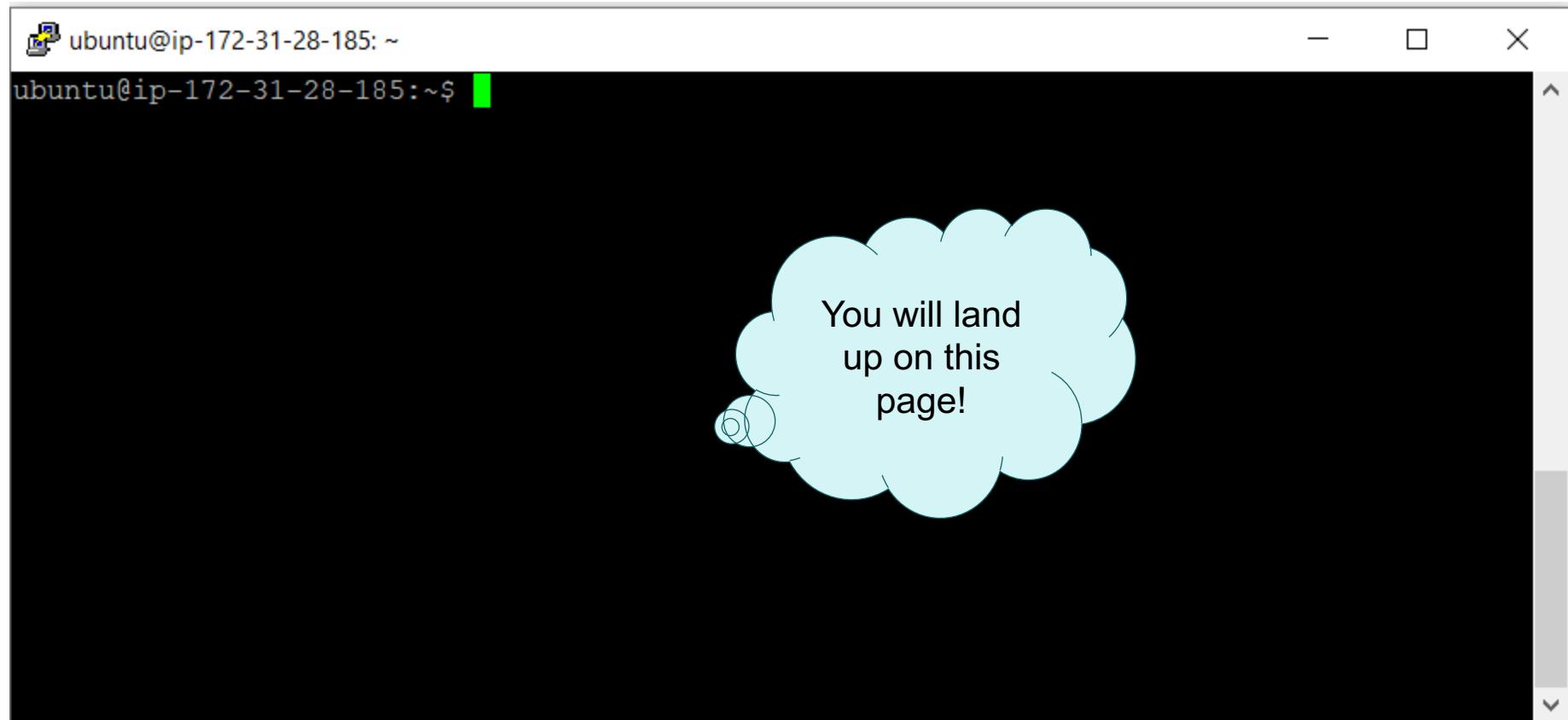
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

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

ubuntu@ip-172-31-28-185:~$ clear
```

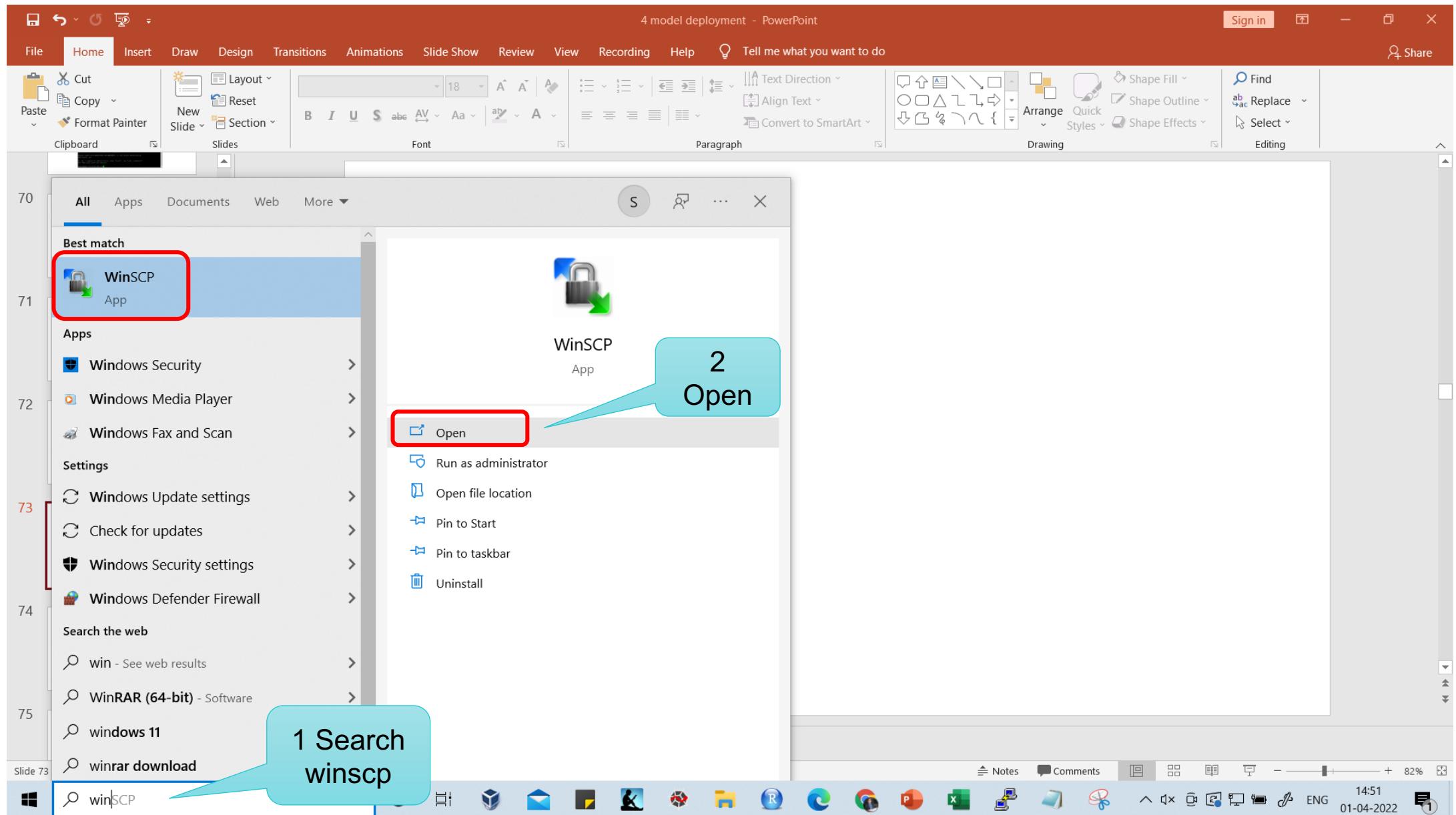
Type 'clear' &
enter

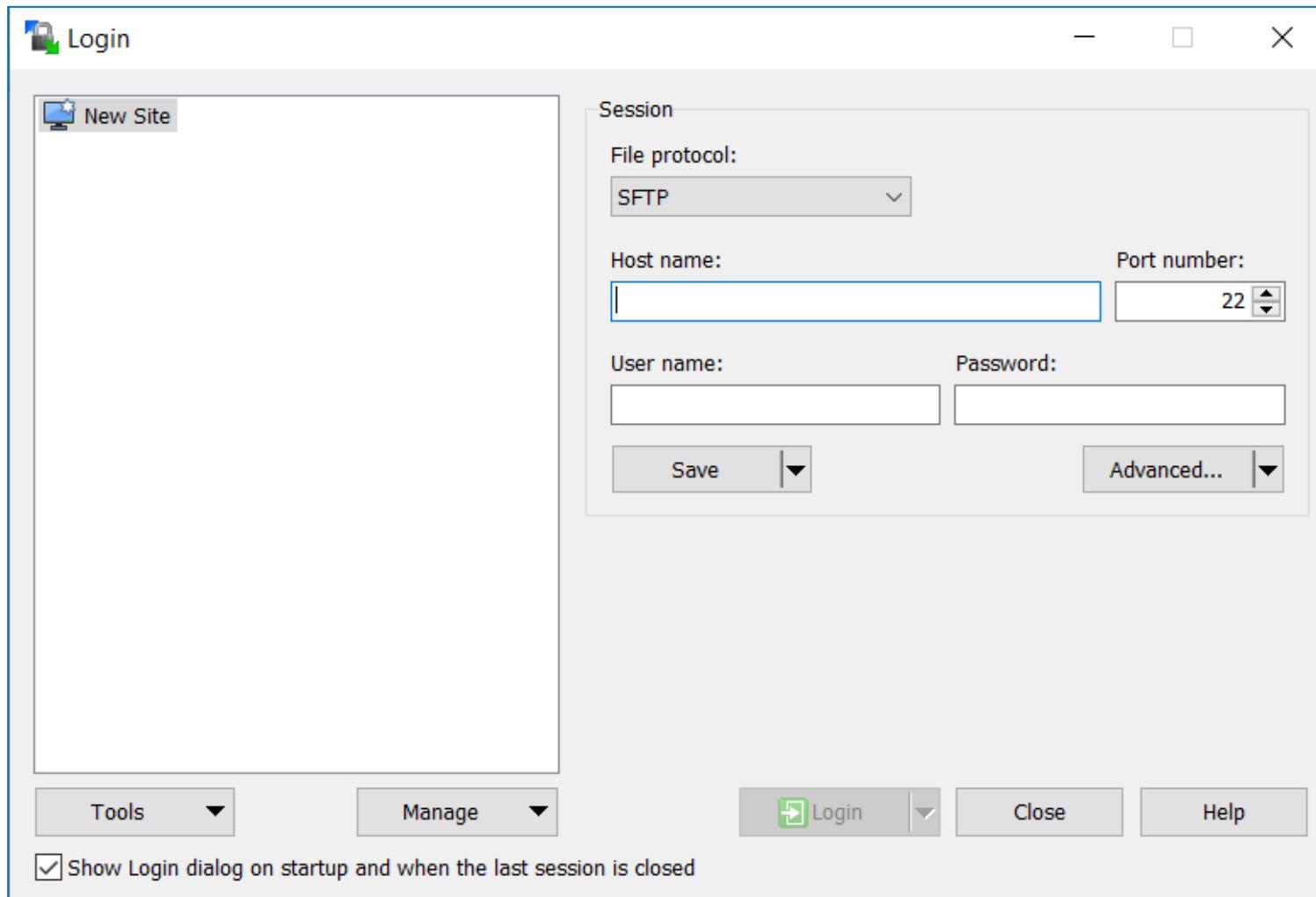


Type 'pwd' & enter

```
ubuntu@ip-172-31-28-185: ~
ubuntu@ip-172-31-28-185:~$ pwd
```

```
ubuntu@ip-172-31-28-185: ~
ubuntu@ip-172-31-28-185:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-28-185:~$
```





We need to
fill these
fields!
See next
slides.

Screenshot of the AWS EC2 Connect to instance page. The URL is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-0d08329569f54e731>. A red box highlights the browser tab "Connect to instance | EC2 Manag". A red arrow points from the "Instances" link in the breadcrumb navigation to the "Instances" link in the top navigation bar.

EC2 Instances > i-0d08329569f54e731 > Connect to instance

Connect to instance Info

Connect to your instance i-0d08329569f54e731 using any of these options

EC2 Instance Connect Session Manager SSH client EC2 Serial Console

Instance ID: **i-0d08329569f54e731**

Public IP address: **34.217.65.18**

User name: **ubuntu**

Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel **Connect**



<https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances>

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Instance state ▾

Actions ▾

Launch instances



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Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2b	ec2-34-217-65-18.us-w...	34.217.65.18

Instance: i-0d08329569f54e731



Select an instance above

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▼ Instance summary Info

Instance ID

i-0d08329569f54e731

IPv6 address

-

Copy this

Public IPv4 address

34.217.65.18 | [open address](#)

Instance state

Running

Private IPv4 addresses

172.31.28.185

Public IPv4 DNS

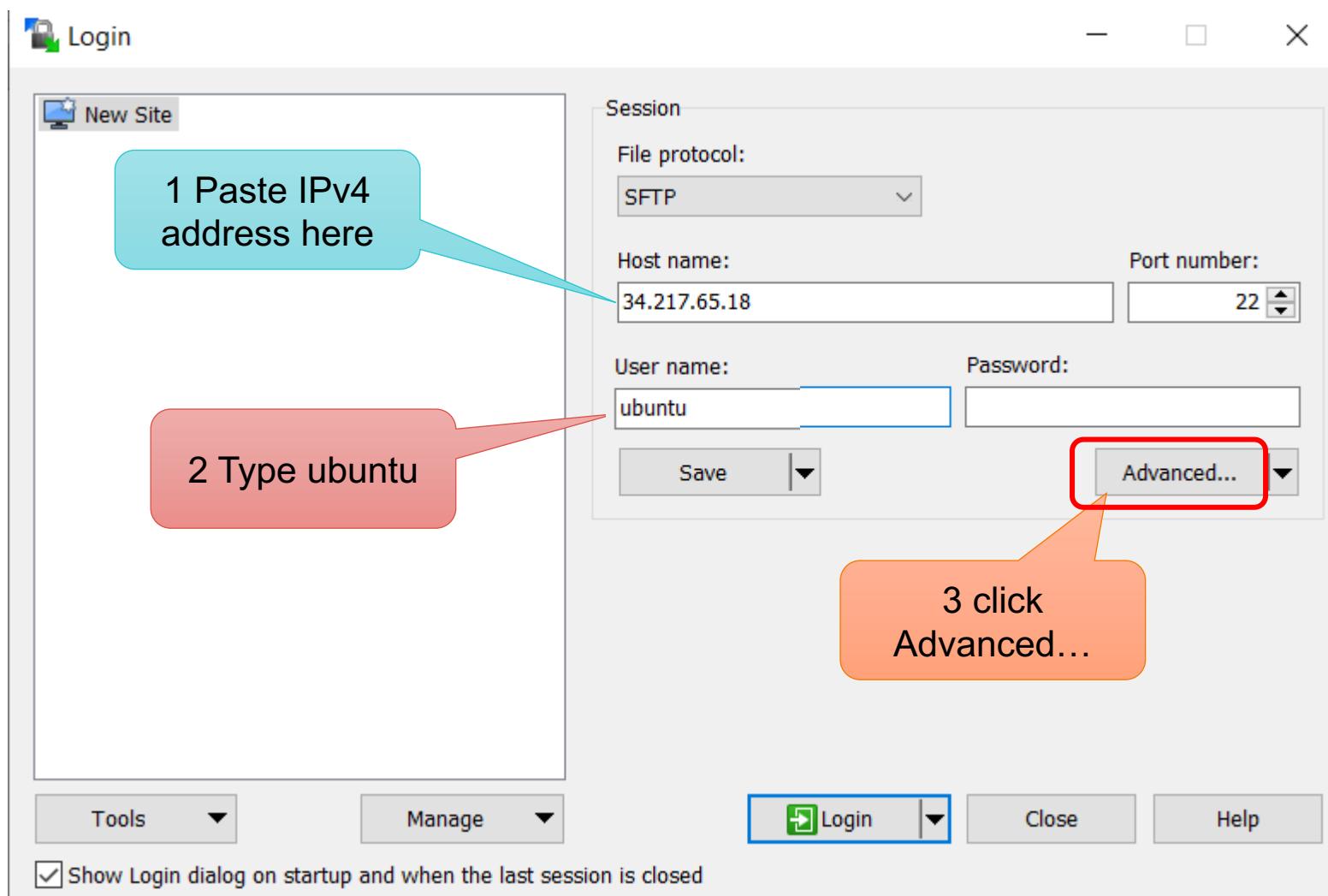
ec2-34-217-65-18.us-west-2.compute.amazonaws.com | [open address](#)

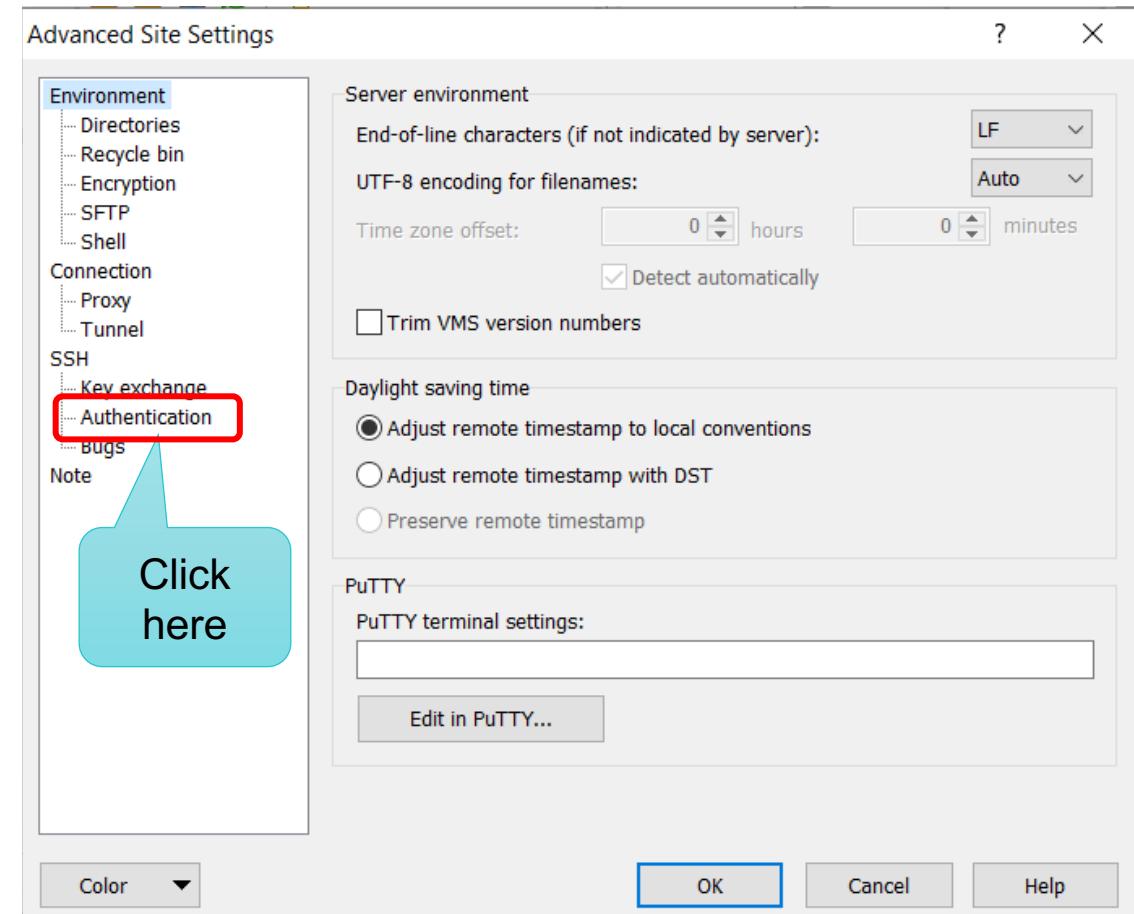
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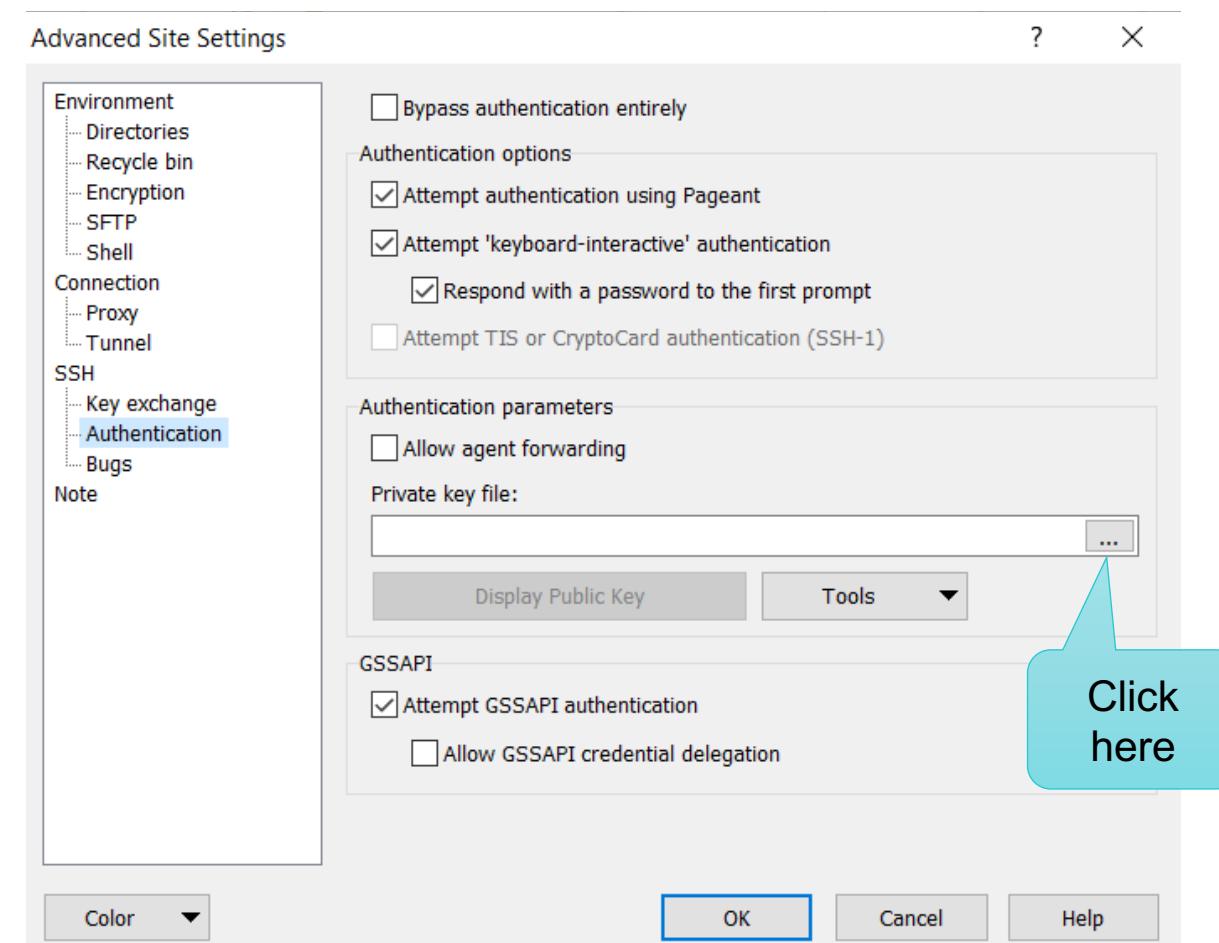
Privacy

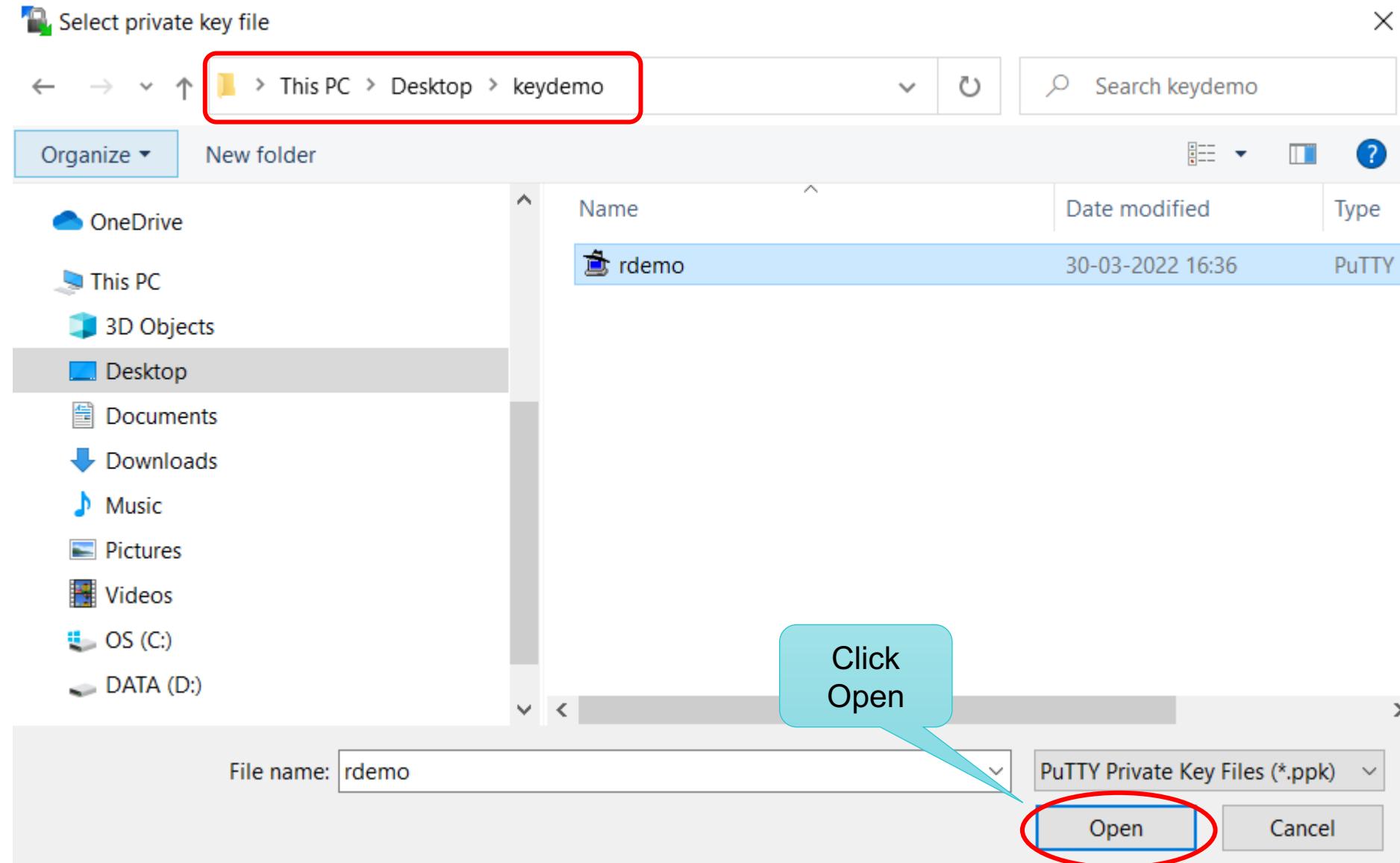
Terms

Cookie preferences



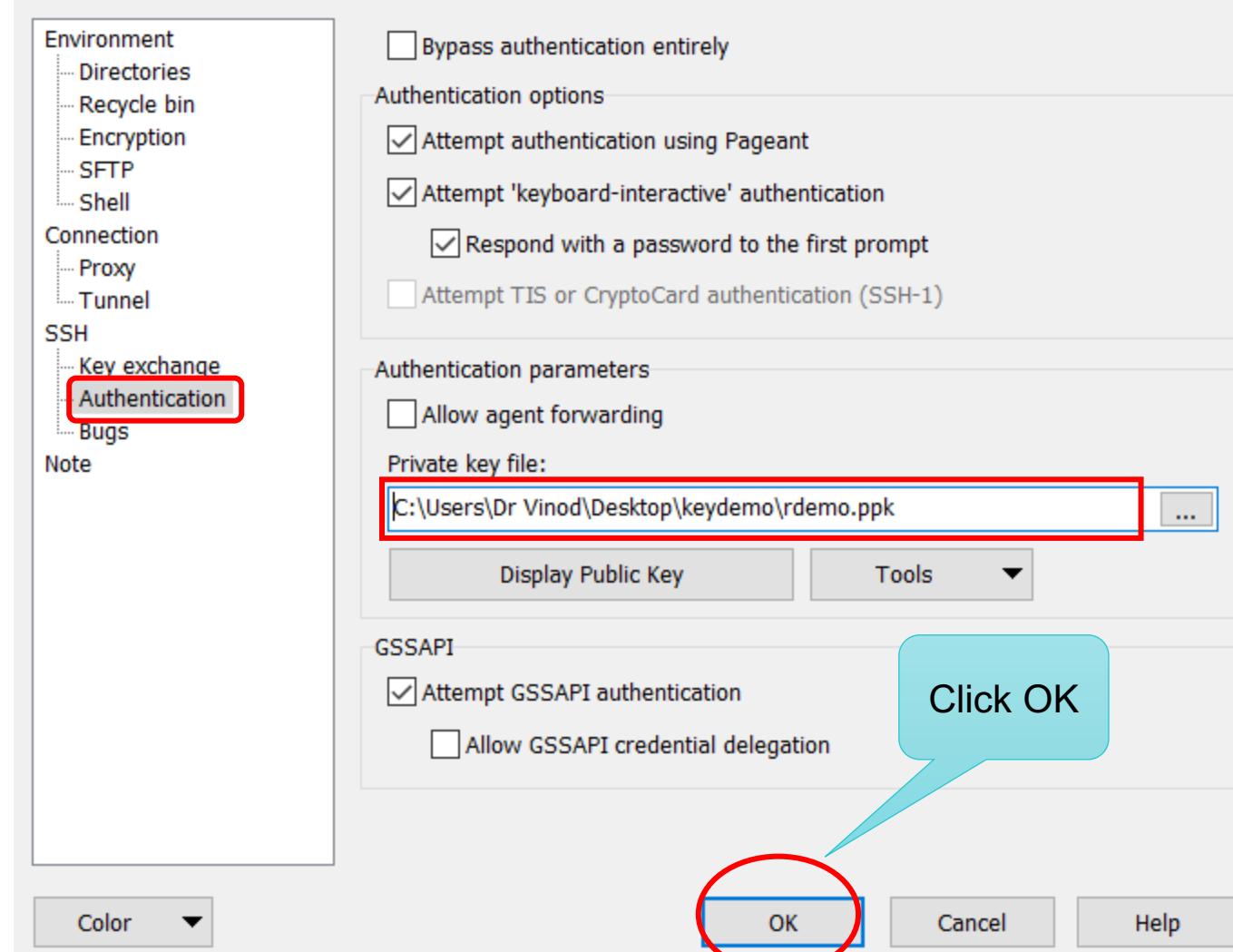




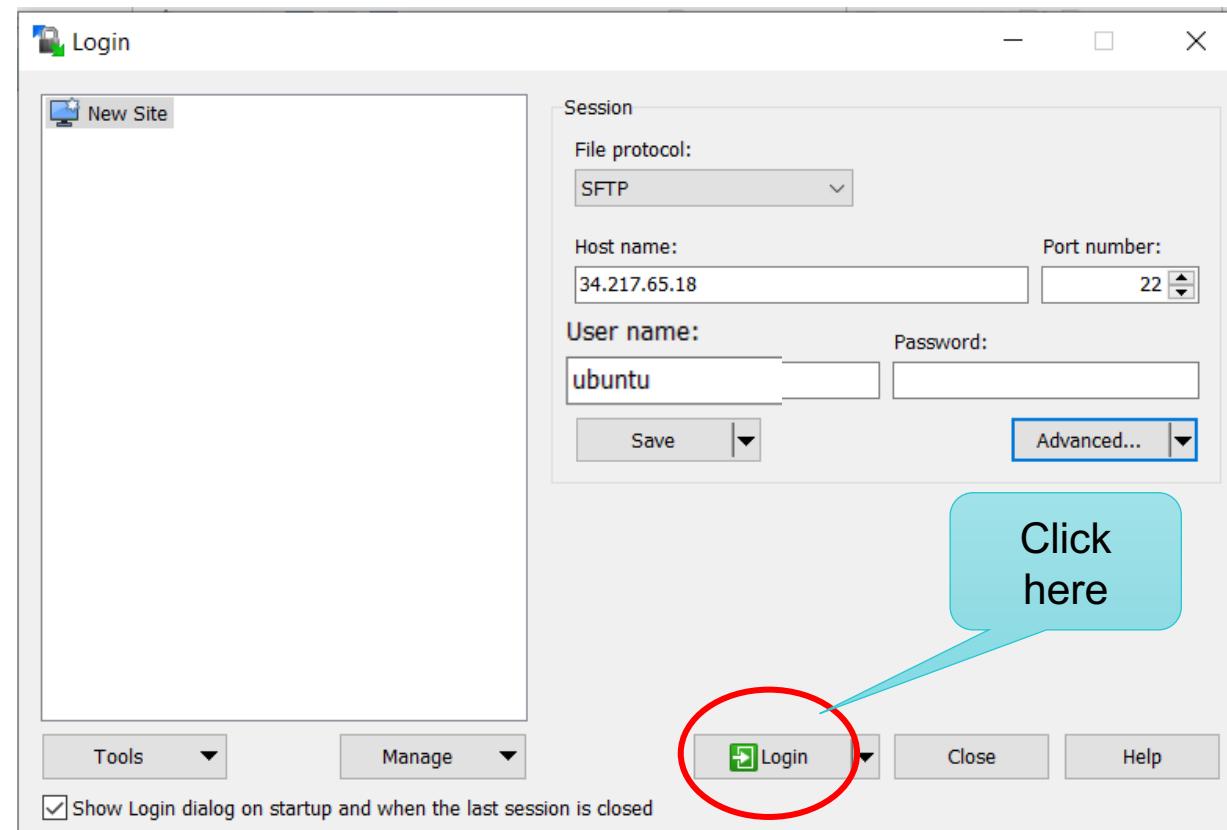


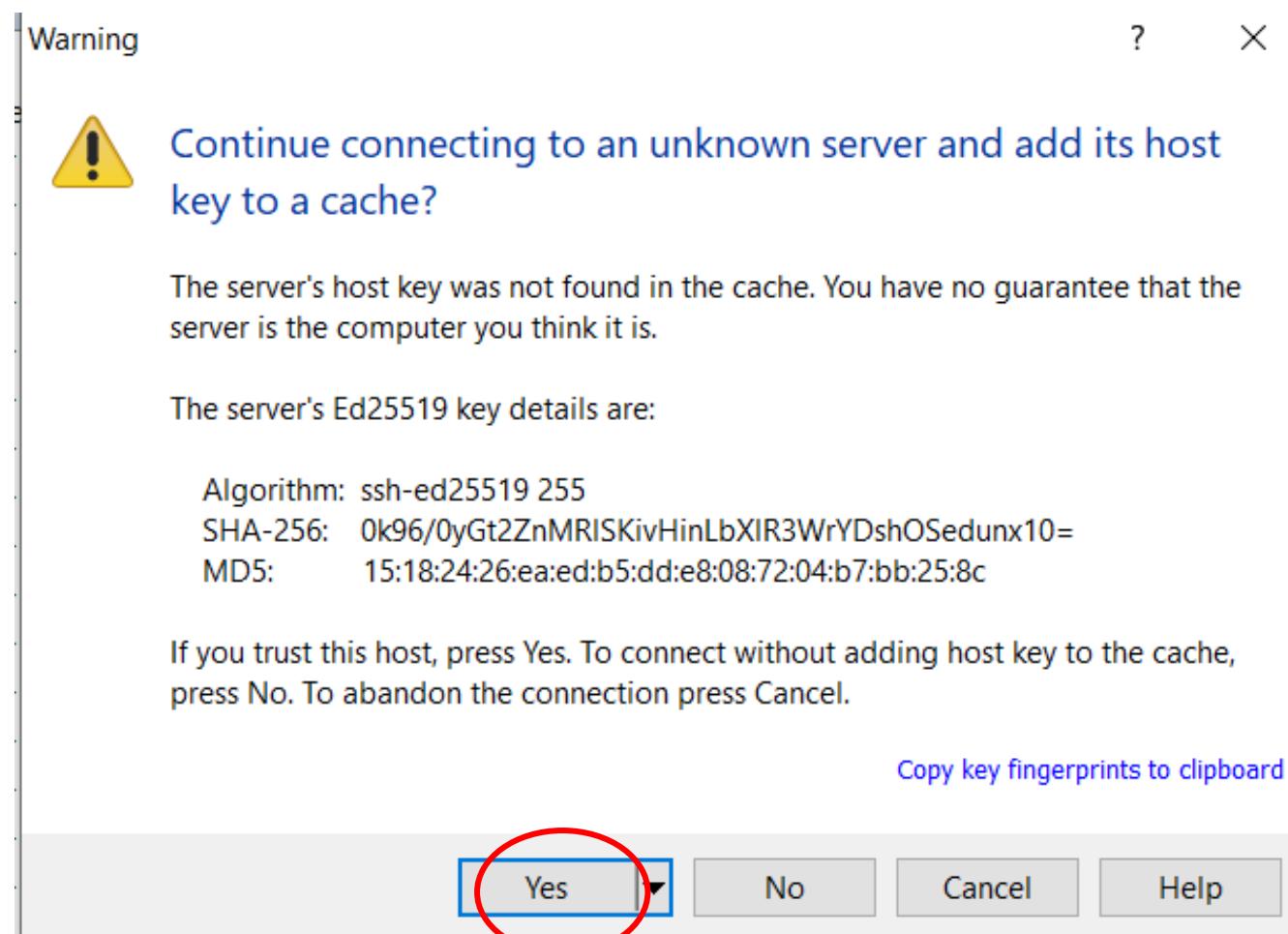
Advanced Site Settings

? X



New Site
will be
opened





Local Mark Files Commands Session Options Remote Help

Synchronize Transfer Settings Default

ubuntu@34.217.65.18 X New Session

My documents

Upload Edit New

C:\Users\Dr Vinod\Documents\

Name	Size	Type	Changed
..		Parent directory	16-03-2022 17:44:24
00 kiranMalikDiksha_2...		File folder	24-03-2022 09:02:39
0 tax19_20_29Dec20_v...		File folder	30-12-2020 18:45:45
all 12 nov 21		File folder	12-11-2021 07:41:28
Custom Office Templa...		File folder	01-12-2020 15:57:47
IBM		File folder	21-07-2019 11:18:24
indusBank		File folder	15-08-2020 22:06:29
My Kindle Content		File folder	25-03-2022 14:08:41
My Tableau Repository		File folder	03-05-2021 20:23:52
old sessions 30nov 21		File folder	30-11-2021 21:04:07
OneNote Notebooks		File folder	16-01-2021 12:39:40
Power BI Desktop		File folder	15-06-2021 18:26:29
R		File folder	14-06-2019 10:22:54
R-TT		File folder	09-06-2021 13:13:32
sql data files		File folder	20-10-2021 12:53:34
Zoom		File folder	07-01-2022 12:56:48
.RData	371 KB	RDATA File	16-03-2022 17:44:24
.Rhistory	14 KB	R History Source File	31-03-2022 17:44:03
22 dec 21 icbai.pptx	616 KB	Microsoft PowerPoi...	22-12-2021 16:09:43
Ac Details.docx	15 KB	Microsoft Word Do...	25-12-2021 11:05:49
Doc1.docx	160 KB	Microsoft Word Do...	04-10-2021 22:00:15
screenshot 31oct21.do...	2,990 KB	Microsoft Word Do...	14-11-2021 15:24:00

0 B of 4.06 MB in 0 of 22

4 hidden 0 B of 0 B in 0 of 0

6 hidden



SFTP-3

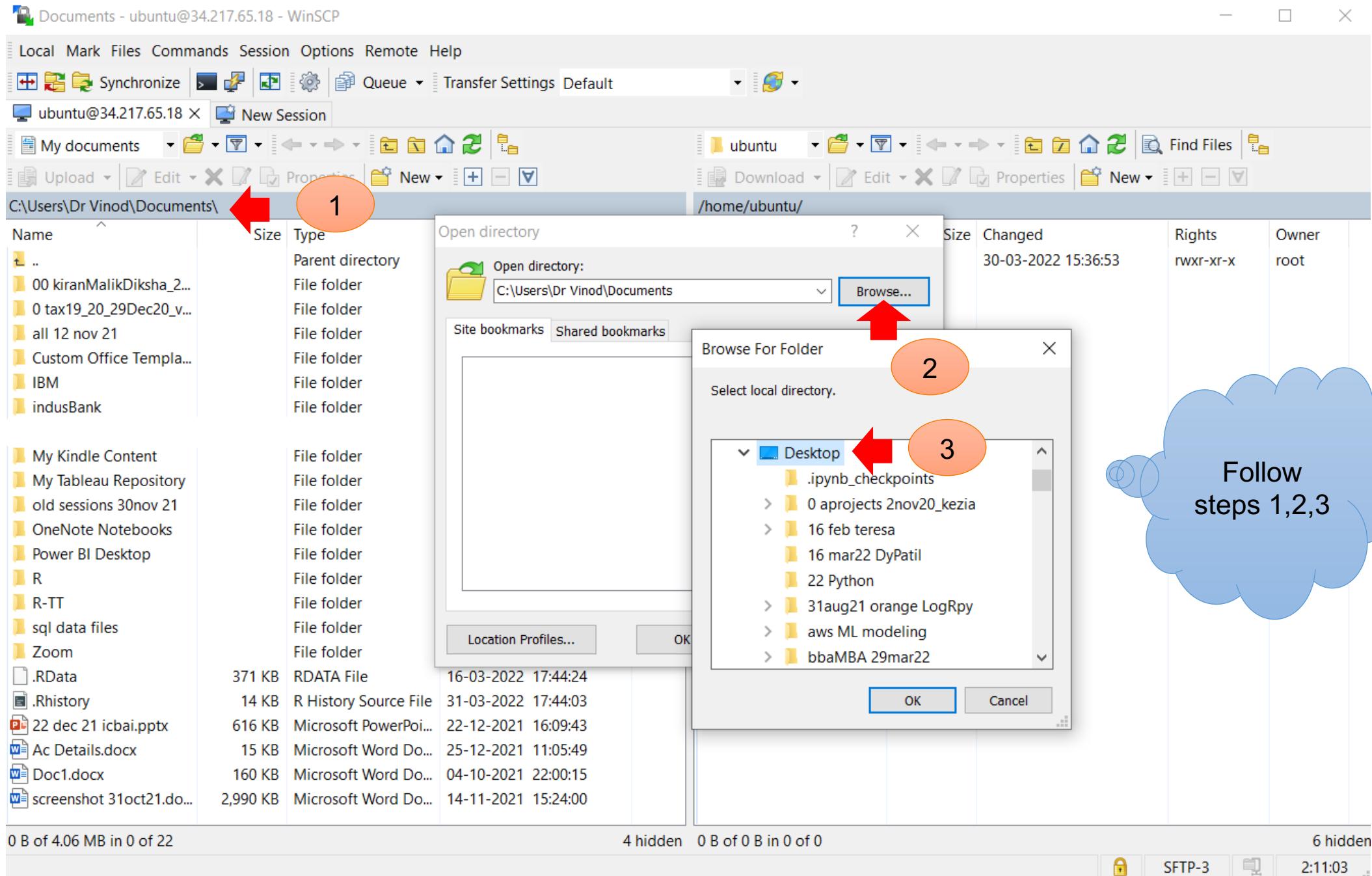


0:00:13

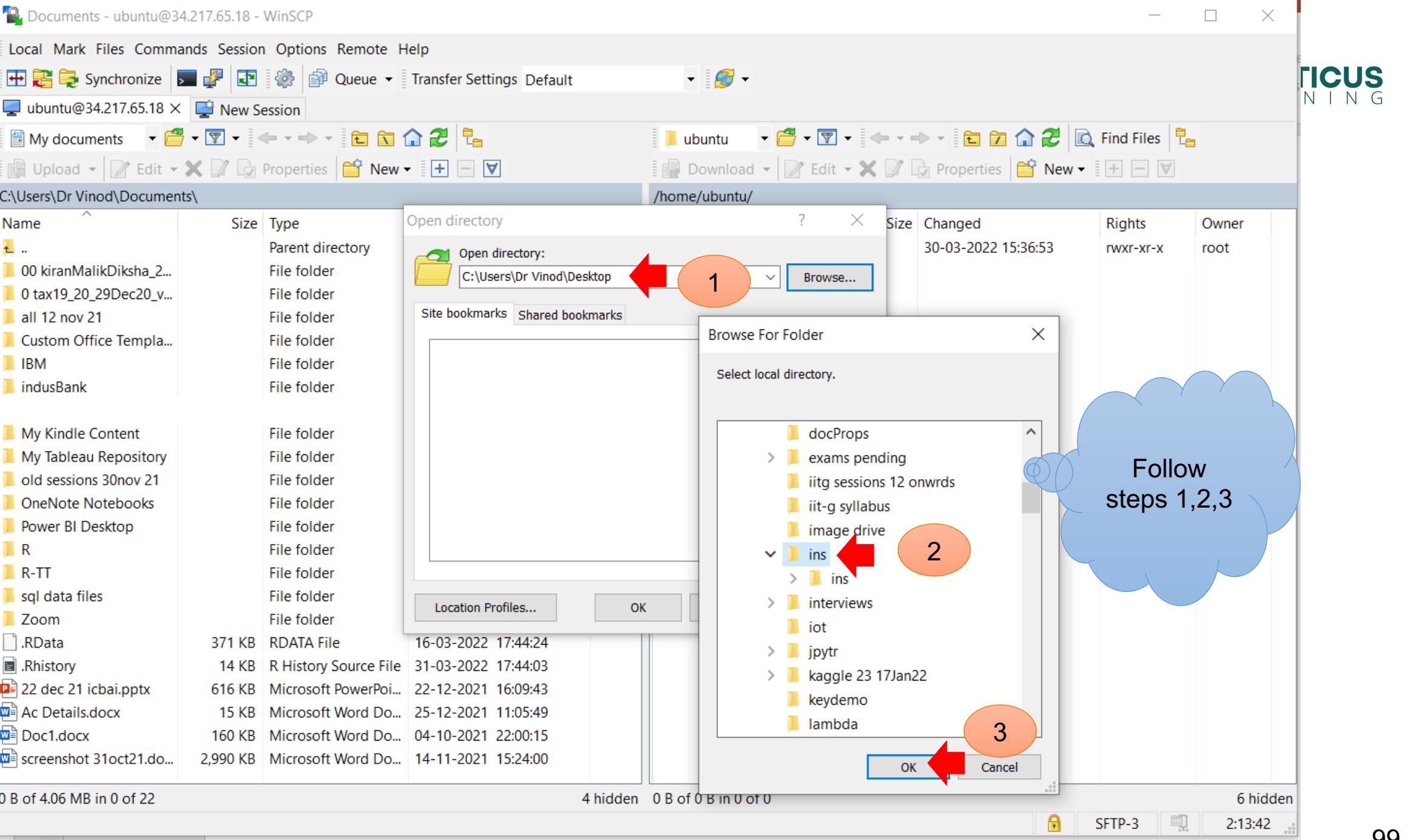
ubuntu	Download	New	Properties	New
/home/ubuntu/				

EC2





Follow
steps 1,2,3



Documents - ubuntu@34.217.65.18 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ubuntu@34.217.65.18 X New Session

My documents Upload Edit Properties New Find Files

ubuntu Download Edit Properties New

C:\Users\Dr Vinod\Documents\ /home/ubuntu/

Name Size Type

Name	Size	Type
..		Parent directory
00 kiranMalikDiksha_2...		File folder
0 tax19_20_29Dec20_v...		File folder
all 12 nov 21		File folder
Custom Office Templa...		File folder
IBM		File folder
indusBank		File folder
invoices Sadaf 31jan22		File folder
My Kindle Content		File folder
My Tableau Repository		File folder
old sessions 30nov 21		File folder
OneNote Notebooks		File folder
Power BI Desktop		File folder
R		File folder
R-RT		File folder
sql data files		File folder
Zoom		File folder
.RData	371 KB	RDATA File
.Rhistory	14 KB	R History Source File
22 dec 21 icbai.pptx	616 KB	Microsoft PowerPoi...
Ac Details.docx	15 KB	Microsoft Word Do...
Doc1.docx	160 KB	Microsoft Word Do...
screenshot 31oct21.do...	2,990 KB	Microsoft Word Do...

Open directory ? X

Open directory: C:\Users\Dr Vinod\Desktop\ins

Site bookmarks Shared bookmarks

Add Remove Up Down

Location Profiles... OK Cancel Help

Follow steps 1,2

0 B of 4.06 MB in 0 of 22 4 hidden 0 B of 0 B in 0 of 0 6 hidden 100 100

JS
NG

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ubuntu@34.217.65.18 X New Session

Desktop Upload Edit Properties New

C:\Users\Dr Vinod\Desktop\ins\

Name	Size	Type	Changed
..		Parent directory	28-03-2022 16:50:44
ins	169 KB	File folder	30-03-2022 14:44:32
ins.zip		WinRAR ZIP archive	28-03-2022 16:46:03

Double click here

ubuntu

Download Edit Properties New

/home/ubuntu/

Name	Size	Changed	Rights	Owner
..		30-03-2022 15:36:53	rwxr-xr-x	root

0 B of 168 KB in 0 of 2 0 B of 0 B in 0 of 0 6 hidden

101 101

Local Mark Files Commands Session Options Remote Help

Synchronize Transfer Settings Default

ubuntu@34.217.65.18 × New Session

Desktop Upload Edit X Properties New + -

C:\Users\Dr Vinod\Desktop\ins\ins\

Name	Size	Type	Changed
..		Parent directory	30-03-2022 14:44:32
model		File folder	30-03-2022 14:45:50
templates		File folder	28-03-2022 18:16:23
app.py	2 KB	PY File	30-03-2022 14:43:44
requirements.txt	1 KB	File	02-03-2022 02:06:42
	1 KB	Text Document	13-03-2022 02:26:10

Find Files

ubuntu Download Edit X Properties New + -

/home/ubuntu/

Name	Size	Changed	Rights	Owner
..		30-03-2022 15:36:53	rwxr-xr-x	root

Drag all these and put on the right side

0 B of 1.63 KB in 0 of 5 0 B of 0 B in 0 of 0 6 hidden 102 102

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ubuntu@34.217.65.18 X New Session

Desktop Upload Edit Properties New Find Files

C:\Users\Dr Vinod\Desktop\ins\ins\

Name	Size	Type	Changed
..		Parent directory	30-03-2022 14:44:32
model	2 KB	File folder	30-03-2022 14:45:50
templates	1 KB	PY File	
app.py	1 KB	File	
requirements.txt	1 KB	Text Document	

ubuntu Download Edit Properties New Find Files

/home/ubuntu/

Name	Size	Changed	Rights	Owner
..		30-03-2022 15:36:53	rwxr-xr-x	root

Upload

Upload file 'model' to remote directory:
`/home/ubuntu/*.*`

Transfer settings
Transfer type: Binary

Transfer in background (add to transfer queue)

Transfer settings... OK Cancel Help

Do not show this dialog box again

When you will drag this to right, this will appear

Click OK

0 B of 1.63 KB in 1 of 5 0 B of 0 B in 0 of 0 6 hidden

103 103

ins - ubuntu@34.217.65.18 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ubuntu@34.217.65.18 New Session

Desktop Upload Edit Properties New

C:\Users\Dr Vinod\Desktop\ins\ins\

Name	Size	Type	Changed
..		Parent directory	30-03-2022 14:44:32
model		File folder	30-03-2022 14:45:50
templates		File folder	28-03-2022 18:16:23
app.py	2 KB	PY File	30-03-2022 14:43:44
Procfile	1 KB	File	02-03-2022 02:06:42
requirements.txt	1 KB	Text Document	13-03-2022 02:26:10

ubuntu Download Edit Properties New

/home/ubuntu/

Name	Size	Changed	Rights	Owner
..		30-03-2022 15:36:53	rwxr-xr-x	root
model		01-04-2022 17:33:57	rwxrwxr-x	ubuntu
templates		01-04-2022 17:34:04	rwxrwxr-x	ubuntu
app.py	2 KB	30-03-2022 14:43:44	rw-rw-r--	ubuntu
requirements.txt	1 KB	13-03-2022 02:26:10	rw-rw-r--	ubuntu

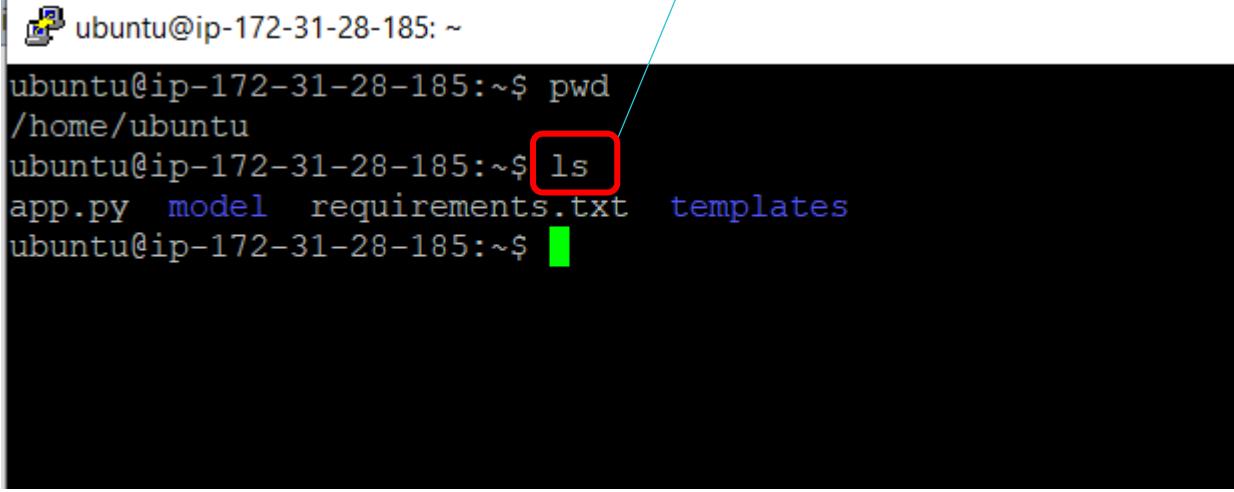
Like-wise drag all

0 B of 1.63 KB in 0 of 5 0 B of 1.61 KB in 0 of 4 6 hidden

Private and Confidential

104 104

Type 'ls' and
ENTER



The screenshot shows a terminal window on an Ubuntu system. The command 'pwd' is run to show the current working directory as '/home/ubuntu'. Then, the 'ls' command is run, listing files: 'app.py', 'model', 'requirements.txt', and 'templates'. A red box highlights the 'ls' command. A green cursor icon is at the bottom right of the terminal window.

```
ubuntu@ip-172-31-28-185: ~
ubuntu@ip-172-31-28-185:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-28-185:~$ ls
app.py  model  requirements.txt  templates
ubuntu@ip-172-31-28-185:~$
```

Type 'pip3 install –r requirements.txt' and
ENTER

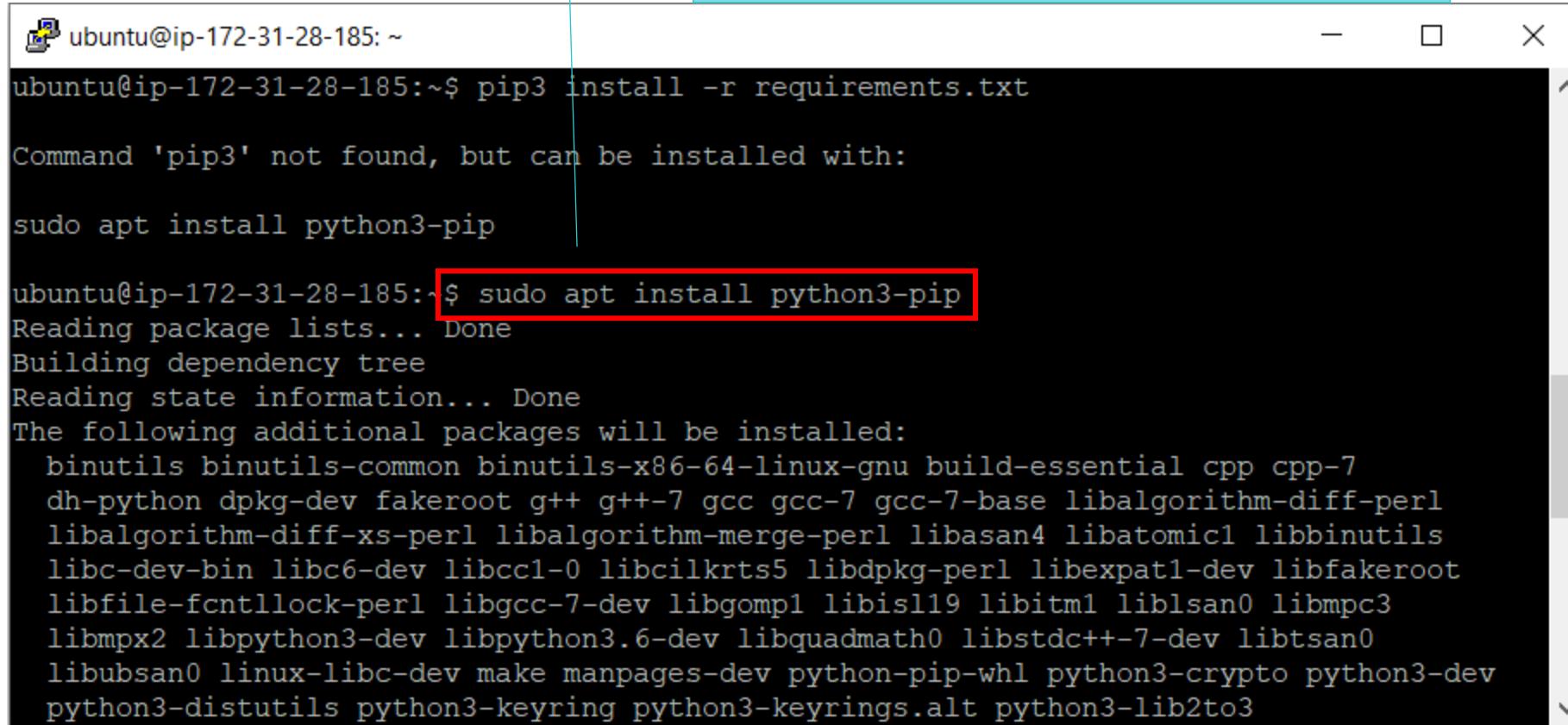
```
ubuntu@ip-172-31-28-185: ~
ubuntu@ip-172-31-28-185:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-28-185:~$ ls
app.py  model  requirements.txt  templates
ubuntu@ip-172-31-28-185:~$ pip3 install -r requirements.txt
```

Command 'pip3' not found, but can be installed with:

```
sudo apt install python3-pip
```

```
ubuntu@ip-172-31-28-185:~$ █
```

Type 'sudo apt install python3-pip'
and ENTER



ubuntu@ip-172-31-28-185: ~

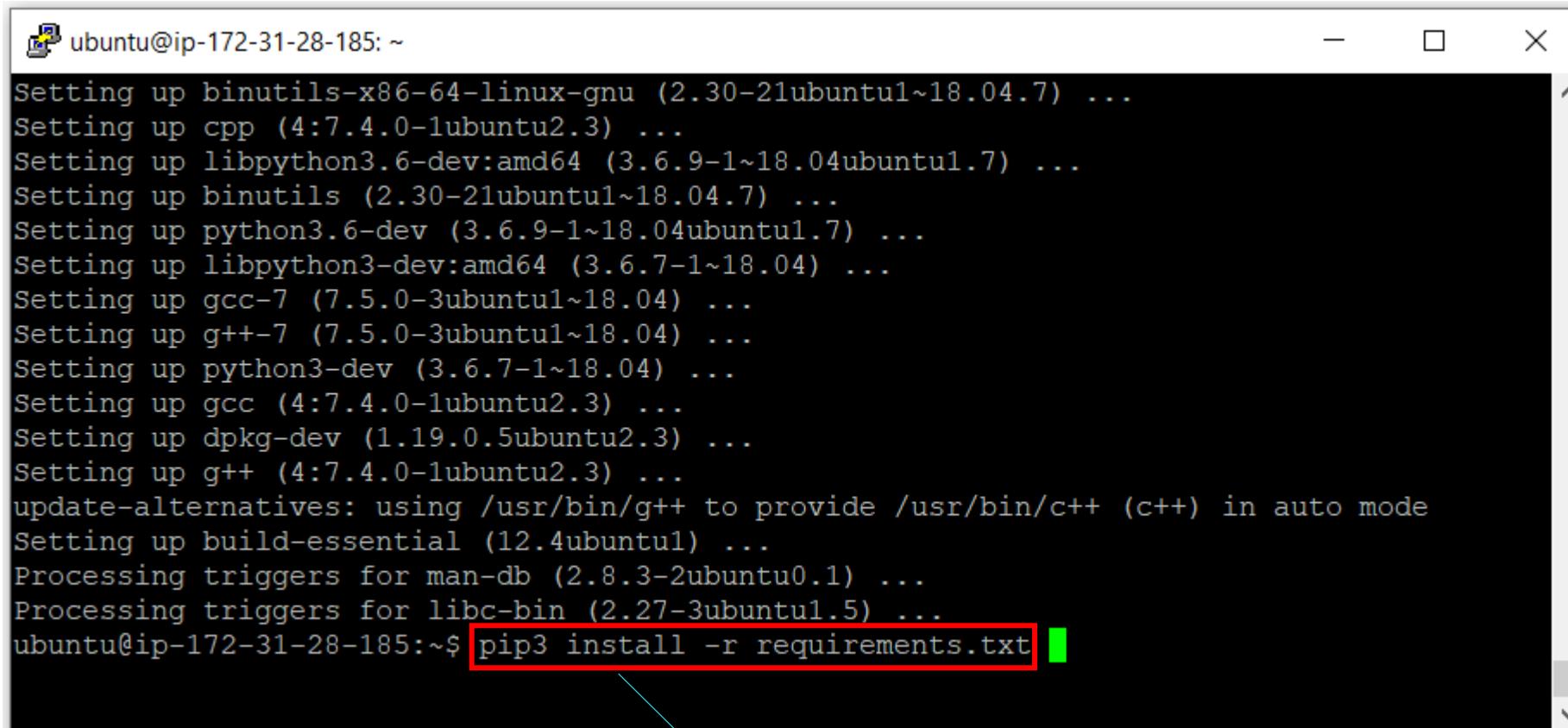
```
ubuntu@ip-172-31-28-185:~$ pip3 install -r requirements.txt
Command 'pip3' not found, but can be installed with:
sudo apt install python3-pip
ubuntu@ip-172-31-28-185:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  binutils binutils-common binutils-x86_64-linux-gnu build-essential cpp cpp-7
  dh-python dpkg-dev fakeroot g++ g++-7 gcc gcc-7 gcc-7-base libalgorithm-diff-perl
  libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan4 libatomic1 libbinutils
  libc-dev-bin libc6-dev libcc1-0 libcilkrt5 libdpkg-perl libexpat1-dev libfakeroot
  libfile-fcntllock-perl libgcc-7-dev libgomp1 libisl19 libitm1 liblsan0 libmpc3
  libmpx2 libpython3-dev libpython3.6-dev libquadmath0 libstdc++-7-dev libtsan0
  libubsan0 linux-libc-dev make manpages-dev python-pip-whl python3-crypto python3-dev
  python3-distutils python3-keyring python3-keyrings.alt python3-lib2to3
```

```
ubuntu@ip-172-31-28-185: ~
gcc-doc gcc-7-multilib libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg
libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg libcilkrt5-dbg libmpx2-dbg
libquadmath0-dbg glibc-doc bzr libstdc++-7-doc make-doc python-crypto-doc
gnome-keyring libkf5wallet-bin gir1.2-gnomekeyring-1.0 python-secretstorage-doc
python-setuptools-doc
The following NEW packages will be installed:
binutils binutils-common binutils-x86-64-linux-gnu build-essential cpp cpp-7
dh-python dpkg-dev fakeroot g++ g++-7 gcc gcc-7 gcc-7-base libalgorithm-diff-perl
libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan4 libatomic1 libbinutils
libc-dev-bin libc6-dev libcc1-0 libcilkrt5 libdpkg-perl libexpat1-dev libfakeroot
libfile-fcntllock-perl libgcc-7-dev libgomp1 libisl19 libitm1 liblsan0 libmpc3
libmpx2 libpython3-dev libpython3.6-dev libquadmath0 libstdc++-7-dev libtsan0
libubsan0 linux-libc-dev make manpages-dev python-pip-whl python3-crypto python3-dev
python3-distutils python3-keyring python3-keyrings.alt python3-lib2to3 python3-pip
python3-secretstorage python3-setuptools python3-wheel python3-xdg python3.6-dev
0 upgraded, 57 newly installed, 0 to remove and 17 not upgraded.
Need to get 91.2 MB of archives.
After this operation, 253 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Type 'y'
and ENTER



```
ubuntu@ip-172-31-28-185: ~  
Setting up binutils-x86-64-linux-gnu (2.30-21ubuntu1~18.04.7) ...  
Setting up cpp (4:7.4.0-1ubuntu2.3) ...  
Setting up libpython3.6-dev:amd64 (3.6.9-1~18.04ubuntu1.7) ...  
Setting up binutils (2.30-21ubuntu1~18.04.7) ...  
Setting up python3.6-dev (3.6.9-1~18.04ubuntu1.7) ...  
Setting up libpython3-dev:amd64 (3.6.7-1~18.04) ...  
Setting up gcc-7 (7.5.0-3ubuntu1~18.04) ...  
Setting up g++-7 (7.5.0-3ubuntu1~18.04) ...  
Setting up python3-dev (3.6.7-1~18.04) ...  
Setting up gcc (4:7.4.0-1ubuntu2.3) ...  
Setting up dpkg-dev (1.19.0.5ubuntu2.3) ...  
Setting up g++ (4:7.4.0-1ubuntu2.3) ...  
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode  
Setting up build-essential (12.4ubuntu1) ...  
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...  
Processing triggers for libc-bin (2.27-3ubuntu1.5) ...  
ubuntu@ip-172-31-28-185:~$
```



```
ubuntu@ip-172-31-28-185: ~
Setting up binutils-x86-64-linux-gnu (2.30-21ubuntul~18.04.7) ...
Setting up cpp (4:7.4.0-1ubuntu2.3) ...
Setting up libpython3.6-dev:amd64 (3.6.9-1~18.04ubuntul.7) ...
Setting up binutils (2.30-21ubuntul~18.04.7) ...
Setting up python3.6-dev (3.6.9-1~18.04ubuntul.7) ...
Setting up libpython3-dev:amd64 (3.6.7-1~18.04) ...
Setting up gcc-7 (7.5.0-3ubuntul~18.04) ...
Setting up g++-7 (7.5.0-3ubuntul~18.04) ...
Setting up python3-dev (3.6.7-1~18.04) ...
Setting up gcc (4:7.4.0-1ubuntu2.3) ...
Setting up dpkg-dev (1.19.0.5ubuntul.5) ...
Setting up g++ (4:7.4.0-1ubuntu2.3) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode
Setting up build-essential (12.4ubuntul) ...
Processing triggers for man-db (2.8.3-2ubuntul.1) ...
Processing triggers for libc-bin (2.27-3ubuntul.5) ...
ubuntu@ip-172-31-28-185:~$ pip3 install -r requirements.txt
```

Type 'pip3 install -r requirements.txt' and ENTER

Create Security Groups

41 WhatsApp x | Gmail Invitation: Video Call Interview S... x | Post Attendee - Zoom x Instances | EC2 Management Cor... +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Gmail YouTube Maps Content Curation A... IoA_Content_Links ... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

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Launch Templates
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Savings Plans
Reserved Instances New
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Scheduled Instances
Capacity Reservations

Images AMIs New
AMI Catalog

Elastic Block Store Volumes New
Snapshots New
Lifecycle Manager New

Network & Security Security Groups (highlighted with red box)
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

Load Balancing

Instances (1/1) Info

Search

C Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-34-217-65-18.us-west-2.compute.amazonaws.com	34.217.65.18

Click here

Instance: i-0d08329569f54e731

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info Public IPv4 address copied

Instance ID: i-0d08329569f54e731
IPv6 address: -
Instance state: Running

Private IPv4 addresses: 172.31.28.185
Public IPv4 DNS: ec2-34-217-65-18.us-west-2.compute.amazonaws.com

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41 (41) WhatsApp x | M Invitation: Video Call Interview Sc x | Post Attendee - Zoom x | EC2 Management Console x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups:

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Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups New

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O H E R P X 113

Security Groups (2) Info

Filter security groups

Actions Export security groups to CSV Create security group

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules
-	sg-0215d7d6b6098cc58	launch-wizard-1	vpc-0a554c4129515b729	launch-wizard-1 create...	074754827078	1 Permission entr...
-	sg-08bd73c3406ae9272	default	vpc-0a554c4129515b729	default VPC security gr...	074754827078	1 Permission entr...

Click this and you will land up on page as shown in next slide!

41 WhatsApp EC2 Management Console +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#CreateSecurityGroup:

Gmail YouTube Maps Content Curation A... IoA_Content_Links -... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

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EC2 > Security Groups > Create security group

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info

MyWebServerGroup

Name cannot be edited after creation.

Description Info

Allows SSH access to developers

VPC Info

vpc-0a554c4129515b729

Observe this!

Inbound rules Info

This security group has no inbound rules.

Add rule

Feedback English (US) ▾

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EC2 > Security Groups > Create security group

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info

FullAccess

Name cannot be edited after creation.

Description Info

FullAccess

VPC Info

vpc-0a554c4129515b729

Inbound rules Info

Click this

Add rule

This security group has no inbound rules.

Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name Info
FullAccess
Name cannot be edited after creation.

Description Info
FullAccess

VPC Info
vpc-0a554c4129515b729

Select 'All traffic'

Select 'Anywhere'

Inbound rules Info

Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	Delete
All traffic	All	All	Anywhere	0.0.0.0/0	X

Add rule

(41) WhatsApp EC2 Management Console +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#CreateSecurityGroup:

Gmail YouTube Maps Content Curation A... IoA_Content_Links ... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

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All traffic ▾ All Anywhere ▾ Delete

Add rule

Outbound rules Info

Type	Info	Protocol	Info	Port range	Info	Destination	Info	Description - optional	Info	
All traffic	▼	All		All		Custom	▼	<input type="text" value="0.0.0.0"/>	X	Delete

Add rule

Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag
You can add up to 50 more tag

Cancel Create security group

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18:27 01-04-2022

Scroll down and click here

(41) WhatsApp EC2 Management Console + V - X

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroup:groupId=sg-0adb5a349df68e969

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New EC2 Experience Tell us what you think X

Security group (sg-0adb5a349df68e969 | FullAccess) was created successfully
▶ Details

EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New

Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs New AMI Catalog

Elastic Block Store Volumes New Snapshots New

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Click this

EC2 > Security Groups > sg-0adb5a349df68e969 - FullAccess

sg-0adb5a349df68e969 - FullAccess Actions ▾

Details

Security group name	Security group ID	Description	VPC ID
FullAccess	sg-0adb5a349df68e969	FullAccess	vpc-0a554c4129515b729
Owner	Inbound rules count	Outbound rules count	
074754827078	1 Permission entry	1 Permission entry	

Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (1/1)

Name	Security group rule...	IP version	Type	Protocol	Port range	Source
<input checked="" type="checkbox"/> Name	Security group rule...	IP version	Type	Protocol	Port range	Source

Filter security group rules

 Manage tags Edit inbound rules

< 1 >

18:28 01-04-2022 118

41 WhatsApp x EC2 Management Console + us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Gmail YouTube Maps Content Curation A... IoA_Content_Links -... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

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New EC2 Experience Tell us what you think

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EC2 Global View

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs New

AMI Catalog

Elastic Block Store

Volumes New

Snapshots New

Instances (1/1) Info

Search

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
-	i-0d0832956f54e731	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-34-217-65-18.us-w...	34.217.65.18

Launch instances

Right click and select 'Security'

Instance: i-0d0832956f54e731

Select an instance above

Networking

Details Security Image and templates Monitor and troubleshoot

Instance ID: i-0d0832956f54e731

IPv6 address: -

Hostname type:

Public IPv4 address: 34.217.65.18 | open address

Instance state: Running

Private IP DNS name (IPv4 only):

Private IPv4 addresses: 172.31.28.185

Public IPv4 DNS: ec2-34-217-65-18.compute.amazonaws.com | open address

Answer private resource DNS name:

Feedback English (US) ▾

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Type here to search

18:30 01-04-2022 119

41 (41) WhatsApp x EC2 Management Console +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Gmail YouTube Maps Content Curation A... IoA_Content_Links -... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

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EC2 Global View
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Tags
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Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images AMIs New
AMI Catalog

Elastic Block Store Volumes New
Snapshots New

Instances (1/1) Info

Search

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4

<input checked="" type="checkbox"/>	-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-2b	ec2-34-217-65-18.us-w...	34.217.65.1...
-------------------------------------	---	---------------------	---------	----------	-------------------	-----------	--------------	--------------------------	----------------

Launch instances
Launch instance from template
Migrate a server
Connect
Stop instance
Start instance
Reboot instance
Hibernate instance
Terminate instance
Instance settings
Networking

Click here

Instance: i-0d08329569f54e731

Select an instance above

Details Security Change security groups Monitoring Tags

Image and templates Get Windows password

Instance summary Monitor and troubleshoot Modify IAM role

Instance ID: i-0d08329569f54e731
Public IPv4 address: 34.217.65.18 | open address
IPv6 address: -
Instance state: Running
Hostname type:
Private IP DNS name (IPv4 only):
Private IPv4 addresses: 172.31.28.185
Public IPv4 DNS: ec2-34-217-65-18.us-west-2.compute.amazonaws.com | open address
Answer private resource DNS name:

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Type here to search

120 18:32 01-04-2022

41 (41) WhatsApp X Change security groups | EC2 Ma +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ChangeSecurityGroups:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Change security groups

Change security groups Info

Amazon EC2 evaluates all the rules of the selected security groups to control inbound and outbound traffic to and from your instance. You can use this window to add and remove security groups.

Instance details

Instance ID	Network interface ID
i-0d08329569f54e731	eni-03f43acfb0ecea3f9

Associated security groups

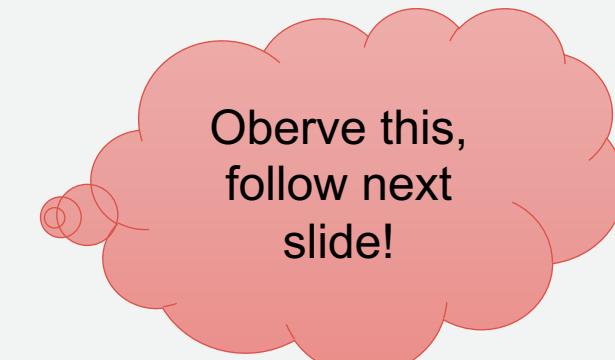
Add one or more security groups to the network interface. You can also remove security groups.

Select security groups Add security group

Security groups associated with the network interface (eni-03f43acfb0ecea3f9)

Security group name	Security group ID
launch-wizard-1	sg-0215d7d6b6098cc58

Remove Cancel Save



(41) WhatsApp

Change security groups | EC2 Ma

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ChangeSecurityGroups:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Change security groups

Change security groups Info

Amazon EC2 evaluates all the rules of the selected security groups to control inbound and outbound traffic to and from your instance. You can use this window to add and remove security groups.

Instance details

Instance ID	Network interface ID
i-0d08329569f54e731	eni-03f43acfb0eceae3f9

Associated security groups

Add one or more security groups to the network interface. You can also remove security groups.

Select security groups

Launch-wizard-1 (sg-0215d7d6b6098cc58)
Launch-wizard-1

default (sg-08bd73c3406ae9272)
default

FullAccess (sg-0adb5a349df68e969)
FullAccess

Launch-wizard-1

FullAccess (sg-0adb5a349df68e969)
sg-0215d7d6b6098cc58

Add security group Remove

Click here and select

Cancel Save

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41 WhatsApp X Change security groups | EC2 Ma X +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ChangeSecurityGroups:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Change security groups

Change security groups Info

Amazon EC2 evaluates all the rules of the selected security groups to control inbound and outbound traffic to and from your instance. You can use this window to add and remove security groups.

Instance details

Instance ID	Network interface ID
i-0d08329569f54e731	eni-03f43acfb0ecea3f9

Associated security groups
Add one or more security groups to the network interface. You can also remove security groups.

Click here

sg-0adb5a349df68e969

Security groups associated with the network interface (eni-03f43acfb0ecea3f9)

Security group name	Security group ID
launch-wizard-1	sg-0215d7d6b6098cc58

Cancel



Change security groups Info

Amazon EC2 evaluates all the rules of the selected security groups to control inbound and outbound traffic to and from your instance. You can use this window to add and remove security groups.

Instance details

Instance ID

 i-0d08329569f54e731

Network interface ID

 eni-03f43acfb0eceaa3f9

Associated security groups

Add one or more security groups to the network interface. You can also remove security groups.

 Select security groups

Add security group

Security groups associated with the network interface (eni-03f43acfb0eceaa3f9)

Security group name

Security group ID

launch-wizard-1

sg-0215d7d6b6098cc58

Remove

FullAccess

sg-0adb5a349df68e969

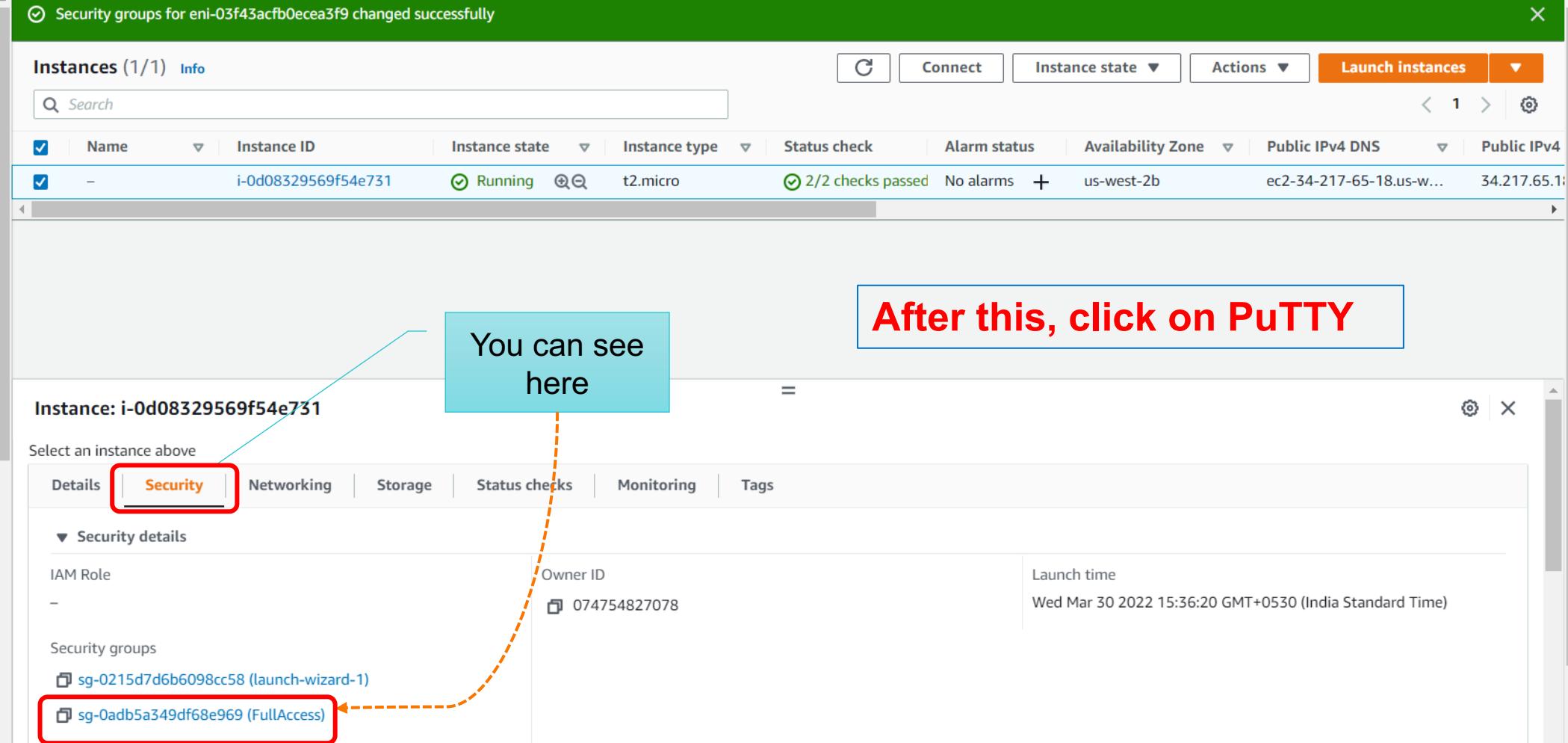
Remove

Cancel

Save



41 (41) WhatsApp Instances | EC2 Management Cor + us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances: Gmail YouTube Maps Content Curation A... IoA_Content_Links ... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod... Services Search for services, features, blogs, docs, and more [Alt+S] New EC2 Experience Tell us what you think X EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIS New AMI Catalog Elastic Block Store Volumes New Snapshots New

Instances (1/1) Info C Connect Instance state Actions Launch instances < 1 > 

✓ Security groups for eni-03f43acfb0ecea3f9 changed successfully

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	ec2-34-217-65-18.us-w...	34.217.65.18

Instance: i-0d08329569f54e731

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

You can see here

After this, click on PuTTY

Security details

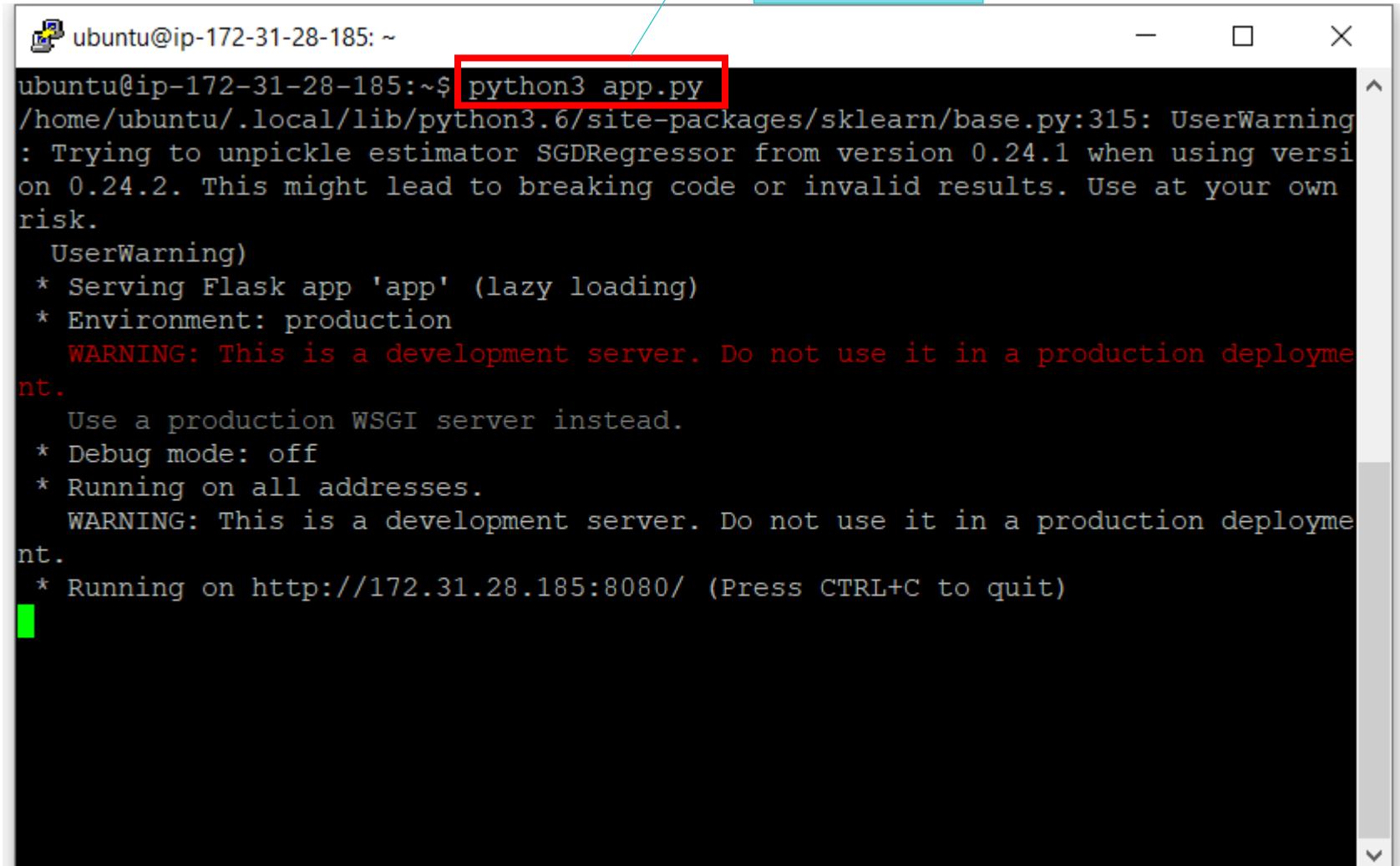
IAM Role - Owner ID 074754827078 Launch time Wed Mar 30 2022 15:36:20 GMT+0530 (India Standard Time)

Security groups

- sg-0215d7d6b6098cc58 (launch-wizard-1)
- sg-0adb5a349df68e969 (FullAccess)

Inbound rules

Type this &
ENTER



ubuntu@ip-172-31-28-185:~\$ python3 app.py

```
/home/ubuntu/.local/lib/python3.6/site-packages/scikit-learn/base.py:315: UserWarning
: Trying to unpickle estimator SGDRegressor from version 0.24.1 when using version 0.24.2. This might lead to breaking code or invalid results. Use at your own risk.
  UserWarning)
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
    Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.31.28.185:8080/ (Press CTRL+C to quit)
```

Instances | EC2 Management Con X

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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Scheduled Instances

Capacity Reservations

Images

AMIs New

AMI Catalog

Elastic Block Store

Waiting for us-west-2.console.aws.amazon.com...

Connect

Instance state Actions Launch instances

Search

Name Instance ID Instance state Instance type Status checks Alarm status Availability Zone Public IPv4 DNS Public IP

i-0d08329569f54e731 Running t2.micro 2/2 checks passed No alarms + us-west-2b ec2-34-217-65-18.us-west-2b 34.217.65.18

Click here

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID: i-0d08329569f54e731

Public IPv4 address: 34.217.65.18 | open address

Private IPv4 addresses: 172.31.28.185

Instance state: Running

Public IPv4 DNS: ec2-34-217-65-18.us-west-2.compute.amazonaws.com | open address

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Type here to search

13:41 04-04-2022 127

38 WhatsApp x | y aws - Yahoo Search Results x Connect to instance | EC2 Manager x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Connect to instance

Connect to instance Info

Connect to your instance i-0d08329569f54e731 using any of these options

EC2 Instance Connect Session Manager **SSH client**

Instance ID: i-0d08329569f54e731

Public IP address: 34.217.65.18

User name: ubuntu

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect

Click here

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Connect to instance

Connect to instance Info

Connect to your instance i-0d08329569f54e731 using any of these options

EC2 Instance Connect Session Manager **SSH client** (circled in red) EC2 Serial Console

Instance ID
[i-0d08329569f54e731](#)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is demo.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
 chmod 400 demo.pem
4. Connect to your instance using its Public DNS:
[ec2-34-217-65-18.us-west-2.compute.amazonaws.com](#) (circled in red)

Copy this link

Example:
 ssh -i "demo.pem" ubuntu@ec2-34-217-65-18.us-west-2.compute.amazonaws.com

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#

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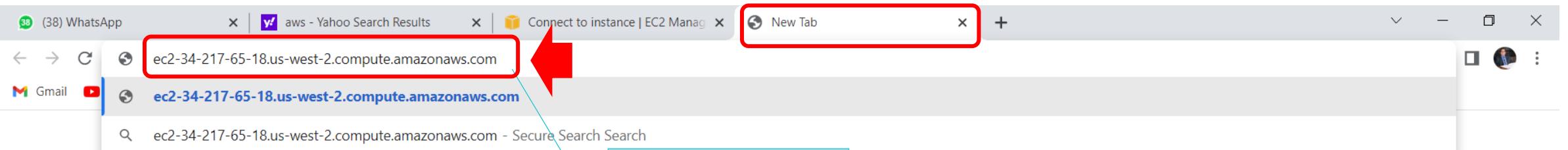


Type here to search

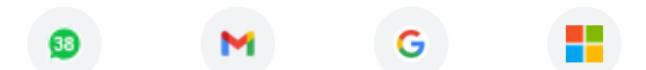


13:43
04-04-2022





Paste this link



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Imarticus Lea... Meet Course Featu... Home Page

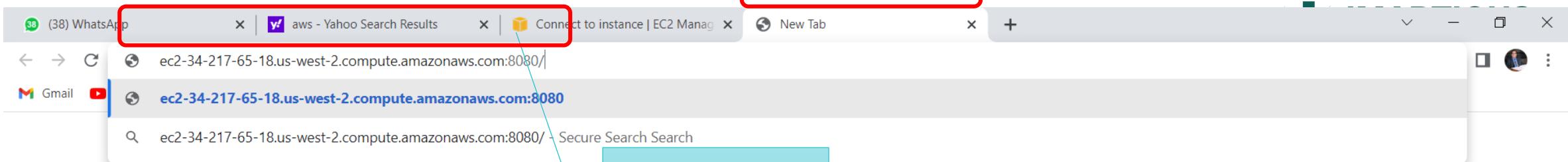
InsuranceModel (2).pkl ^

Show all

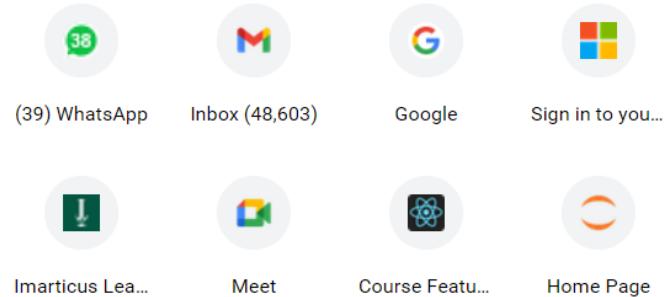


130

13:44
04-04-2022



Write
:8080/
& ENTER



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131



Type here to search



13:50
04-04-2022
ENG
131

← → C Not secure | ec2-34-217-65-18.us-west-2.compute.amazonaws.com:8080



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Insurance Charges Claim

Input values:

Age: *

BMI: *

Children: *

Aha! We had
our website
page, duly
deployed at
AWS!!



Insurance Charges Claim

Input values:

Age: *

BMI: *

Children: *

Age : 23 BMI : 17 Children : 0

Predicted Charges Claim:

129096.59474679203

Try this, feed some inputs and see the outcome!





Now we need to delete all folders that were uploaded in WinSCP and those instances we created in EC2 along with security groups in EC2.

ins - ubuntu@34.217.65.18 - WinSCP

Local Mark Files Commands Session Options Remote Help

Synchronize Queue Transfer Settings Default

ubuntu@34.217.65.18 X New Session

Desktop Upload Edit Properties New Find Files

C:\Users\Dr Vinod\Desktop\rahul aws\ins\ins\

Name	Size	Type	Changed
..		Parent directory	04-04-2022 12:46:09
model		File folder	04-04-2022 13:30:09
templates		File folder	04-04-2022 12:46:09
app.py	2 KB	PY File	01-04-2022 18:47:02
requirements.txt	1 KB	Text Document	13-03-2022 02:26:10

ubuntu Desktop Upload Edit Properties New Find Files

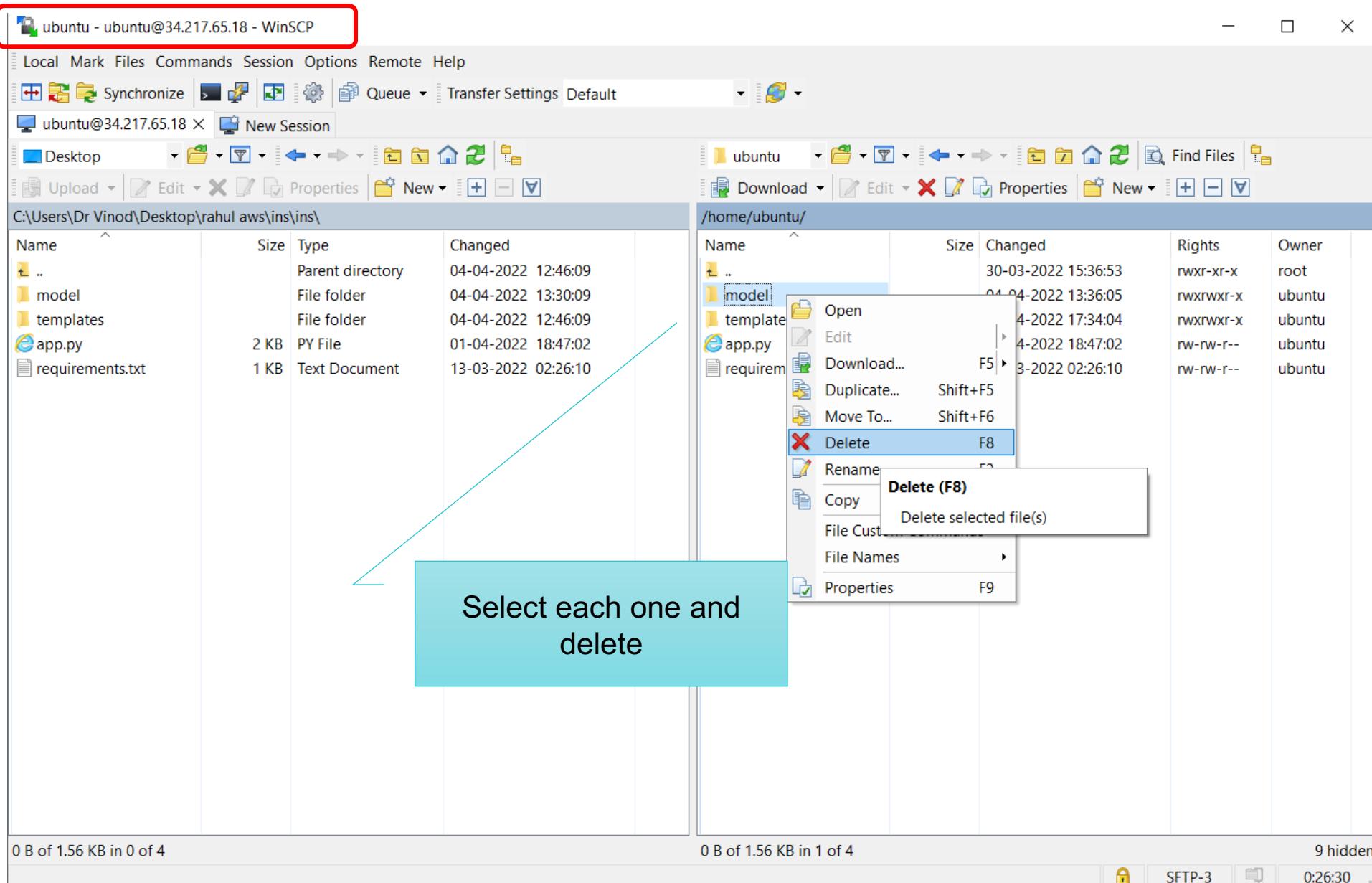
/home/ubuntu/

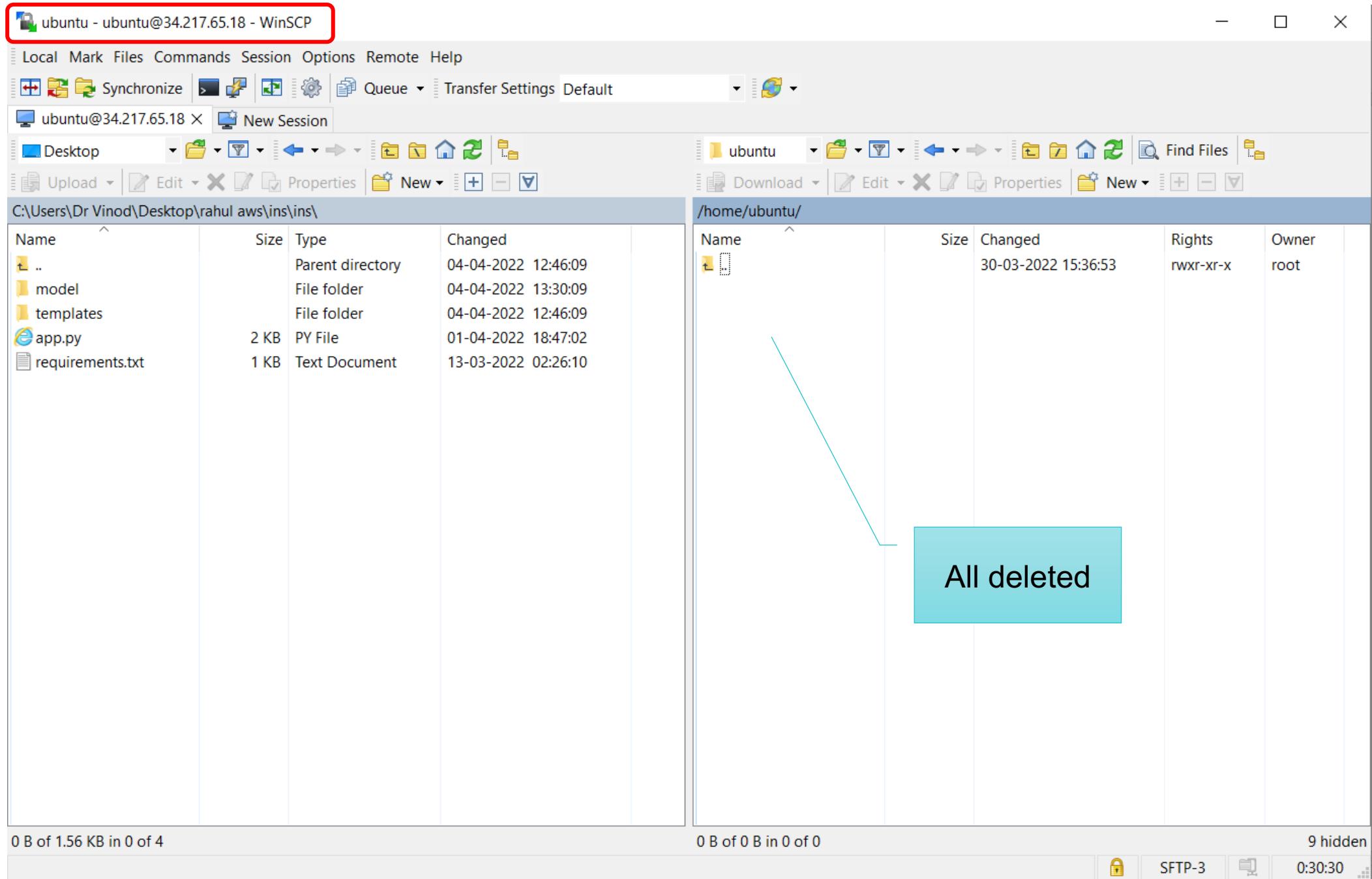
Name	Size	Changed	Rights	Owner
..		30-03-2022 15:36:53	rwxr-xr-x	root
model		04-04-2022 13:36:05	rwxrwxr-x	ubuntu
templates		01-04-2022 17:34:04	rwxrwxr-x	ubuntu
app.py	2 KB	01-04-2022 18:47:02	rw-rw-r--	ubuntu
requirements.txt	1 KB	13-03-2022 02:26:10	rw-rw-r--	ubuntu

Open WinSCP

0 B of 1.56 KB in 0 of 4 0 B of 1.56 KB in 0 of 4 9 hidden

135 135





38 WhatsApp x | y aws - Yahoo Search Results x Connect to instance | EC2 Manag x ec2-34-217-65-18.us-west-2.com x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#ConnectToInstance:instanceId=i-0d08329569f54e731

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EC2 Instances i-0d08329569f54e731 Connect to instance

Connect to instance Info

Connect to your instance i-0d08329569f54e731 using any of these options

EC2 Instance Connect Session Manager **SSH client** EC2 Serial Console

Instance ID [i-0d08329569f54e731](#)

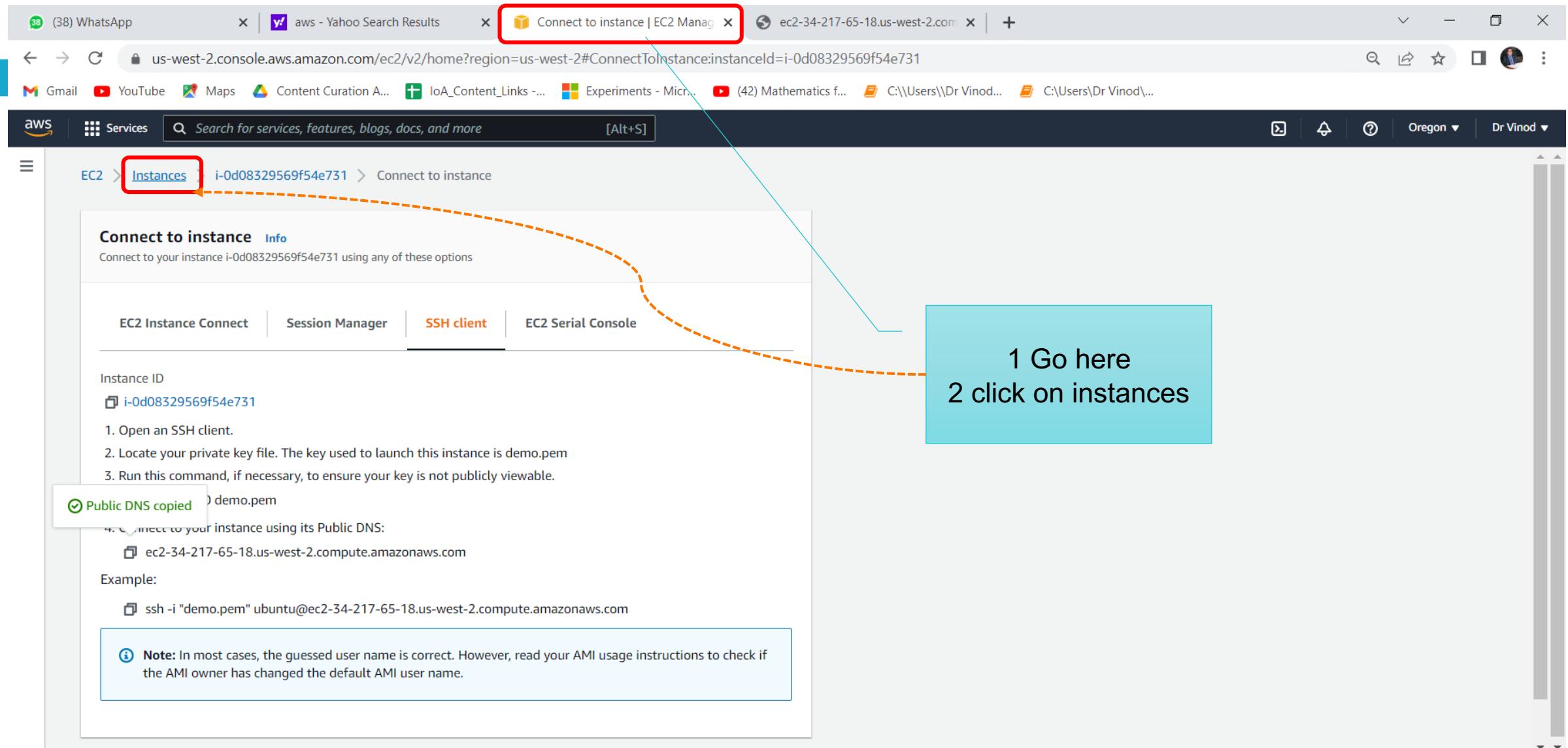
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is demo.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.

Public DNS copied demo.pem

4. Connect to your instance using its Public DNS:
[ec2-34-217-65-18.us-west-2.compute.amazonaws.com](#)

Example:
[ssh -i "demo.pem" ubuntu@ec2-34-217-65-18.us-west-2.compute.amazonaws.com](#)

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.



<https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:>

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138

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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Images

AMIs New

AMI Catalog

Elastic Block Store

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Instances (1/1) Info

Search

Name	Instance ID	Instance state	Instance type	Status check	Alarm
-	i-0d08329569f54e731	Running	t2.micro	2/2 checks passed	No alarm

C Connect Instance state Actions Launch instances

Stop instance Start instance Reboot instance Hibernate instance Terminate instance

1 Go here
2 click on 'Terminate instances'

Instance: i-0d08329569f54e731

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0d08329569f54e731	34.217.65.18 open address	172.31.28.185
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-34-217-65-18.us-west-2.compute.amazonaws.com open address

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O File Mail Home R Google Chrome P Microsoft Edge Scissors

14:09 04-04-2022 139

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Gmail YouTube Maps Content Curation A... IoA_Content_Links ... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod... C:\Users\Dr Vinod\...

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Images AMIs New AMI Catalog

Elastic Block Store Feedback English (US) ▾

Instances (1/1) Info

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IP

i-0d08329569f54e731 Running t2.micro 2/2 checks passed No alarms us-west-2b ec2-34-217-65-18.us-w... 34.217.6!

Terminate instance?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?
i-0d08329569f54e731

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel Terminate

click

34.217.65.18 | open address 172.31.23.185

Public IPv4 DNS ec2-34-217-65-18.us-west-2.compute.amazonaws.com | open address

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us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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Instances (1) Info

Search

Instance ID: i-0d08329569f54e731
Instance state: Terminated  

Connect Instance state Actions Launch instances

1 / 1 

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
-	i-0d08329569f54e731	Terminated	t2.micro	-	No alarms	us-west-2b	-	34.217.6!

Terminated!

Select an instance

39 WhatsApp X | Y aws - Yahoo Search Results X Instances | EC2 Management Cor X ec2-34-217-65-18.us-west-2.com X +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

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Network & Security Security Groups

Elastic IPs Placement Groups Key Pairs Network Interfaces

Load Balancing Load Balancers Target Groups New

Auto Scaling Launch Configurations Auto Scaling Groups

Instances (1) Info

Search

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
-	i-0d08329569f54e731	Terminated	t2.micro	-	No alarms	us-west-2b	-	34.217.61.

C Connect Instance state Actions Launch instances

Instances (1)

Select an instance

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups:

Type here to search

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14:13 ENG 04-04-2022

The screenshot shows the AWS EC2 Instances page. A red box highlights the 'Instances (1)' section, and a red arrow points from the 'Security Groups' link in the left sidebar to the 'Select an instance' dropdown menu. The instance listed is terminated and has a Public IP of 34.217.61. The left sidebar also shows sections for Network & Security, Load Balancing, and Auto Scaling.

The screenshot shows the AWS EC2 Management Console interface. The browser tabs include WhatsApp, AWS Search Results, EC2 Management Console (highlighted with a red box), and ec2-34-217-65-18.us-west-2.com. The AWS sidebar lists services like Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security (Security Groups selected), Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, Load Balancing, Load Balancers, Target Groups, and Auto Scaling.

The main content area displays the "Security Groups (1/3)" page. It shows three security groups: "launch-wizard-1" (sg-0215d7d6b6098cc58), "default" (sg-08bd73c3406ae9272), and a newly created group "sg-0adb5a349df68e9". A context menu is open over the "sg-0adb5a349df68e9" row, listing options: Create security group, Export security groups to CSV, Export security groups inbound/outbound rules to CSV, View details, Edit inbound rules, Edit outbound rules, Manage tags, Manage stale rules, Copy to new security group, and Delete security groups. A large callout box with a teal background and white text provides instructions: "1. Select 'FullAccess' 2. Right click here 3. Delete security group".

The "Delete security groups" option in the context menu is highlighted with a red box and connected by a dashed orange arrow to the callout box. The "Details" tab is selected for the "sg-0adb5a349df68e9" group. A message at the bottom left says "You can now check network connectivity with Reachability Analyzer" with a "Run Reachability Analyzer" button. The bottom navigation bar includes links for Feedback, English (US), Privacy, Terms, and Cookie preferences, along with system icons for search, taskbar, and system status.

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups[Gmail](#)[YouTube](#)[Maps](#)[Content Curation A...](#)[IoA_Content_Links - ...](#)[Experiments - Micr...](#)[\(42\) Mathematics f...](#)[C:\Users\Dr Vinod...](#)[C:\Users\Dr Vinod\...](#)[aws](#)[Services](#) Search for services, features, blogs, docs, and more

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▼ Network & Security[Security Groups](#)[Elastic IPs](#)[Placement Groups](#)[Key Pairs](#)[Network Interfaces](#)**▼ Load Balancing**[Load Balancers](#)[Target Groups](#)

New

▼ Auto Scaling[Launch Configurations](#)[Auto Scaling Groups](#)**Security Groups (1/3)** [Info](#) Filter security groups

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules
—	sg-0215d7d6b6098cc58	launch-wizard-1	vpc-0a554c4129515b729	launch-wizard-1 create...	074754827078	1 Permission e
—	sg-08bd73c3406ae9272	default	vpc-0a554c4129515b729	default VPC security gr...	074754827078	1 Permission e
<input checked="" type="checkbox"/>	sg-0adb5a349df68e969	FullAccess	vpc-0a554c4129515b729	FullAccess	074754827078	1 Permission e

Delete security groups

Are you sure that you want to delete this security group?

- sg-0adb5a349df68e969 - FullAccess

[Cancel](#)[Delete](#)

click

sg-0adb5a349df68e969 - Full

[Details](#)[Inbound rules](#)[Outbound rules](#)[Tags](#)

[You can now check network connectivity with Reachability Analyzer](#) [Run Reachability Analyzer](#)

Details

Security group name

Security group ID

Description

VPC ID

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Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Target Groups New

Auto Scaling

Launch Configurations

Auto Scaling Groups

✓ Security group (sg-0adb5a349df68e969 | FullAccess) successfully deleted

Security Groups (2) Info



Actions ▾

Export security groups to CSV

Create security group

Filter security groups

< 1 > ⚙

<input type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules
<input type="checkbox"/>	-	sg-0215d7d6b6098cc58	launch-wizard-1	vpc-0a554c4129515b729	launch-wizard-1 create...	074754827078	1 Permission e
<input type="checkbox"/>	-	sg-08bd73c3406ae9272	default	vpc-0a554c4129515b729	default VPC security gr...	074754827078	1 Permission e

Full Access
deleted!



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Tell us what you think**EC2 Dashboard**

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Scheduled Instances

Capacity Reservations

Images

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Resources

You are using the following Amazon EC2 resources in the US West (Oregon) Region:

Instances (running)

0

Dedicated Hosts

0

Elastic IPs

0

Instances

1

Key pairs

1

Load balancers

0

Placement groups

0

Security groups

2

Snapshots

0

Volumes

0

 Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#) **Launch instance**

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance **Migrate a server**

Note: Your instances will launch in the US West (Oregon) Region

Service health**AWS Health Dashboard** **Region**

US West (Oregon)

Status

This service is operating normally

Zones

Zone name

Zone ID

Account attributes**Supported platforms**

- VPC

Default VPC

vpc-0a554c4129515b729

Settings**EBS encryption****Zones****EC2 Serial Console****Default credit specification****Console experiments****Explore AWS****10 Things You Can Do Today to Reduce AWS Costs**Explore how to effectively manage your AWS costs without compromising on performance or capacity. [Learn more](#) **Get Up to 40% Better Price Performance**T4g instances deliver the best price performance for burstable general purpose workloads in Amazon EC2. [Learn more](#) **Save up to 90% on EC2 with Spot Instances**

38 WhatsApp x | y aws - Yahoo Search Results x Key pairs | EC2 Management Con x + us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#KeyPairs: Gmail YouTube Maps Content Curation A... IoA_Content_Links ... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod... C:\Users\Dr Vinod\... AWS Services Search for services, features, blogs, docs, and more [Alt+S] New EC2 Experience Tell us what you think EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs New AMI Catalog Elastic Block Store Volumes New Snapshots New Feedback English (US) ▾ Type here to search © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences 14:48 04-04-2022 2 147

Key pairs (1/1)

Name	Type	Fingerprint	ID
demo	rsa	69:83:19:68:6b:a8:e3:9d:ff:8f:1c:57:b4:...	key-0446dbfaa8d6f2c6a

Actions

- Import key pair
- Delete**
- Manage tags

1. Select 'demo'
2. Actions
3. Delete

38 WhatsApp x | y aws - Yahoo Search Results x EC2 Management Console x + us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#KeyPairs:

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Key pairs (1/1) Info

Filter key pairs

Name	Type	Fingerprint	ID
demo	rsa	69:83:19:68:6b:a8:e3:9d:ff:8f:1c:57:b4:...	key-0446dbfaa8d6f2c6a

Actions Create key pair

demo could be associated with one or more instances.

Delete demo

To confirm deletion, type Delete in the field

Delete Cancel **Delete**

Type Delete here, then click Delete

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar has three tabs: 'WhatsApp' (38), 'aws - Yahoo Search Results', and 'EC2 Management Console'. The 'EC2 Management Console' tab is active and highlighted with a red box. The URL in the address bar is 'us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#KeyPairs:'. Below the tabs, there's a row of icons for various services like Gmail, YouTube, Maps, etc. The main content area is titled 'Key pairs (1/1)' and shows a single entry: 'demo' (rsa type, fingerprint: 69:83:19:68:6b:a8:e3:9d:ff:8f:1c:57:b4:..., ID: key-0446dbfaa8d6f2c6a). A modal dialog box is centered over the table, prompting the user to delete the key pair. It contains the message 'demo could be associated with one or more instances.', a 'Delete demo' section, and a note 'To confirm deletion, type Delete in the field'. A red box highlights the 'Delete' input field. To the right of the input field is a red box highlighting the 'Delete' button. A dashed orange arrow points from a callout bubble at the bottom right to the 'Delete' input field. The callout bubble contains the text 'Type Delete here, then click Delete'.

38 (38) WhatsApp x | y aws - Yahoo Search Results x EC2 Management Console x +

us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#KeyPairs:

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Successfully deleted 1 key pairs

Key pairs Info Filter key pairs Actions Create key pair

Name Type Fingerprint ID

No key pairs to display

Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations

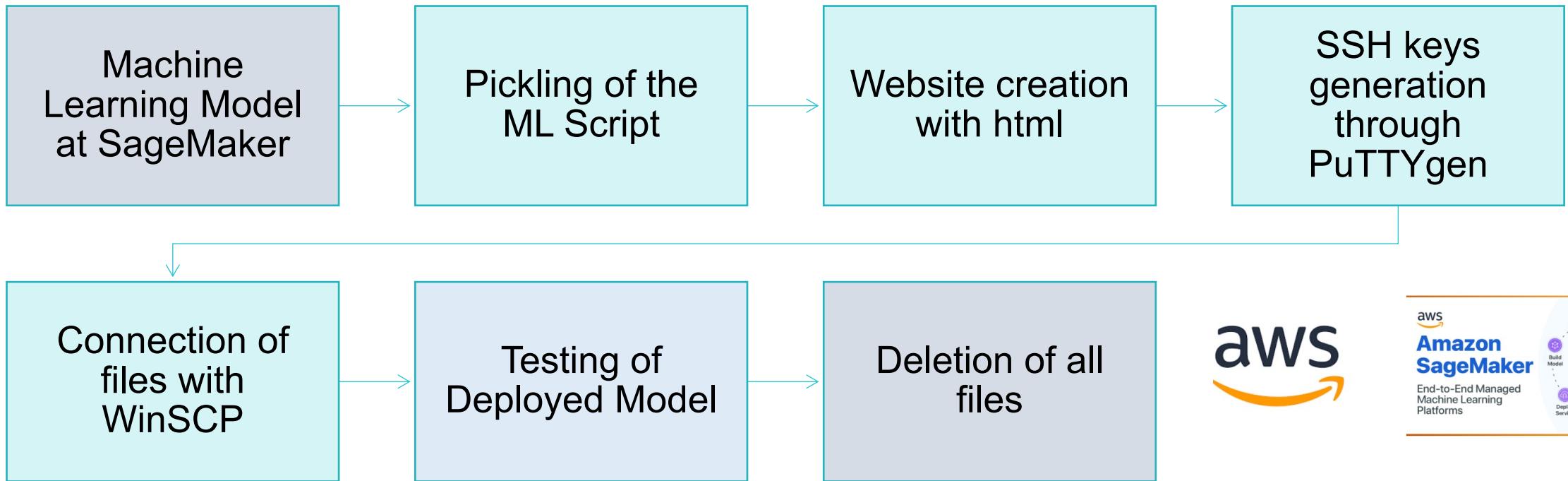
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