

Connecting to the Amazon instance

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EVOLUTION AND GENOMICS

Intensive and immersive training opportunities



2022 WORKSHOP ON POPULATION AND SPECIATION GENOMICS, CESKY KRUMLOV



The 2022 Workshop on Population and Speciation Genomics is held in [Český Krumlov](#) from 5 June to 17 June. It brings together an international collection of faculty members and Workshop participants to study and discuss current ideas and techniques for the analysis of genomic data on the level of populations and closely related species. The Workshop consists of a series of lectures, demonstrations and computer laboratories that cover theory and practice of population and speciation genomics analyses.

The Workshop registration fee is \$1,950 (USD). This amount does not cover travel, lodging or boarding. Many important details about the Workshop series can be read on our [FAQ](#) page.



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The Workshop on Population and Speciation Genomics is organized and co-directed by:

[Julia M.I. Barth](#), University of Basel, Switzerland

[Scott Handley](#), Washington University, US

[Milan Malinsky](#), University of Bern, Switzerland

[Michael Matschiner](#), University of Oslo, Norway

[Britta S. Meyer](#), Max Planck Institute for Evolutionary Biology, Plön, Germany

[Walter Salzburger](#), University of Basel, Switzerland

[Jan Stefka](#), University of South Bohemia České Budějovice, Czech Republic

[Emiliano Trucchi](#), Università Politecnica delle Marche, Ancona, Italy

ANNOUNCEMENTS

- Welcome to the WPSG in Český Krumlov!! If you signed up for the UNIX primer, we meet at 4 p.m. at the House of Prelate. Otherwise we are looking forward to seeing you at 7 p.m. at the Reception dinner at the Hotel Zlatý Anděl!

LINKS

- [Amazon instances IP addresses](#)
- [Map of important locations in Český Krumlov](#)

SCHEDULE

Week 1 : 5-11 June, 2022

DATE	DAY	TIME	PRESENTER	TOPIC	LOCATION
					↑



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WPSG2022 AMI IP addresses

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	A	B	C	D	E	F	G	
1	Last Name	First Name	Instance name	Instance ID	Instance state	Instance type	Status check	Public DNS
2	Abush	Zinaw	WPSG 1.0	i-0b8ebcee4c8afa4bb	Running	t3.xlarge	2/2 checks passed	ec2-44-200-40-67.comp
3	Agnieszka	Lipinska	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.co
4	Albertien	van Heerden	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.co
5	Alexander	Brandt	WPSG 1.0	i-0cc305fd706a4438d	Running	t3.large	2/2 checks passed	ec2-44-202-43-70.comp
6	Alistair	Hudson	WPSG 1.0	i-0d17f868f7ab44ed2	Running	t3.large	2/2 checks passed	ec2-35-172-133-194.co
7	Amanda	Lazdina	WPSG 1.0	i-0bfe0452838268d85	Running	t3.large	2/2 checks passed	ec2-3-85-56-171.compu
8	Anastasiia	Mykhailenko	WPSG 1.0	i-0b8ebcee4c8afa4bb	Running	t3.xlarge	2/2 checks passed	ec2-44-200-40-67.comp
9	Annabelle	de Vries	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.co
10	Bárbara	Rocha Venancio Meyer	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.co
11	Cecilia	Padilla Iglesias	WPSG 1.0	i-0cc305fd706a4438d	Running	t3.large	2/2 checks passed	ec2-44-202-43-70.comp
12	Charlotte	Wright	WPSG 1.0	i-0d17f868f7ab44ed2	Running	t3.large	2/2 checks passed	ec2-35-172-133-194.co
13	Colette	Blyth	WPSG 1.0	i-0bfe0452838268d85	Running	t3.large	2/2 checks passed	ec2-3-85-56-171.compu
14	Conor	Gilligan	WPSG 1.0	i-0b8ebcee4c8afa4bb	Running	t3.xlarge	2/2 checks passed	ec2-44-200-40-67.comp
15	Daniela	Souza	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.co
16	Darren	O'Connell	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.co
17	Emile	Cavalet-Giora	WPSG 1.0	i-0cc305fd706a4438d	Running	t3.large	2/2 checks passed	ec2-44-202-43-70.comp
18	Emmanuel	Tergemina	WPSG 1.0	i-0d17f868f7ab44ed2	Running	t3.large	2/2 checks passed	ec2-35-172-133-194.co
19	Eva	Paulus	WPSG 1.0	i-0bfe0452838268d85	Running	t3.large	2/2 checks passed	ec2-3-85-56-171.compu
20	Francesco	Giannelli	WPSG 1.0	i-0b8ebcee4c8afa4bb	Running	t3.xlarge	2/2 checks passed	ec2-44-200-40-67.comp
21	Grégoire	Vernaz	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.co
22	Hiranya	Sudasinghe	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.co
23	Isabel	Blasco-Costa	WPSG 1.0	i-0cc305fd706a4438d	Running	t3.large	2/2 checks passed	ec2-44-202-43-70.com
24	Jack	Harper	WPSG 1.0	i-0d17f868f7ab44ed2	Running	t3.large	2/2 checks passed	ec2-35-172-133-194.co
25	Jeronimo	Cid	WPSG 1.0	i-0bfe0452838268d85	Running	t3.large	2/2 checks passed	ec2-3-85-56-171.comp
26	Jordan	Orosco	WPSG 1.0	i-0b8ebcee4c8afa4bb	Running	t3.xlarge	2/2 checks passed	ec2-44-200-40-67.com
			WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.co

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	Instance name	Instance ID	Instance state	Instance type	Status check	Public DNS	Launch time
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	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2
	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2
	WPSG 1.0	i-0cc305fd706a4438d	Running	t3.large	2/2 checks passed	ec2-44-202-43-70.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2
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Meyer	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2
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	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2
Myel	WPSG 1.0	i-0695fab01f918ac7b	Running	t3.large	2/2 checks passed	ec2-54-172-182-168.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2
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	WPSG 1.0	i-0b8ebcee4c8afa4bb	Running	t3.xlarge	2/2 checks passed	ec2-44-200-40-67.compute-1.amazonaws.com	2022/05/31 14:34 GMT+2
	WPSG 1.0	i-0f508e5ee1c6f5af0	Running	t3.large	2/2 checks passed	ec2-44-203-148-243.compute-1.amazonaws.com	2022/06/04 17:18 GMT+2

Connecting to the Amazon instance

1. SSH / SCP

2. Guacamole

3. RStudio

4. Jupyter Notebooks

1. SSH / SCP

1. SSH / SCP

A terminal window titled "m_matschiner — -zsh — 80x24" with standard macOS window controls (red, yellow, green buttons). The terminal displays the following text:

```
Last login: Sun Jun  5 11:49:37 on ttys008
👤 22-06-05|11:49|~
% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
```

1. SSH / SCP

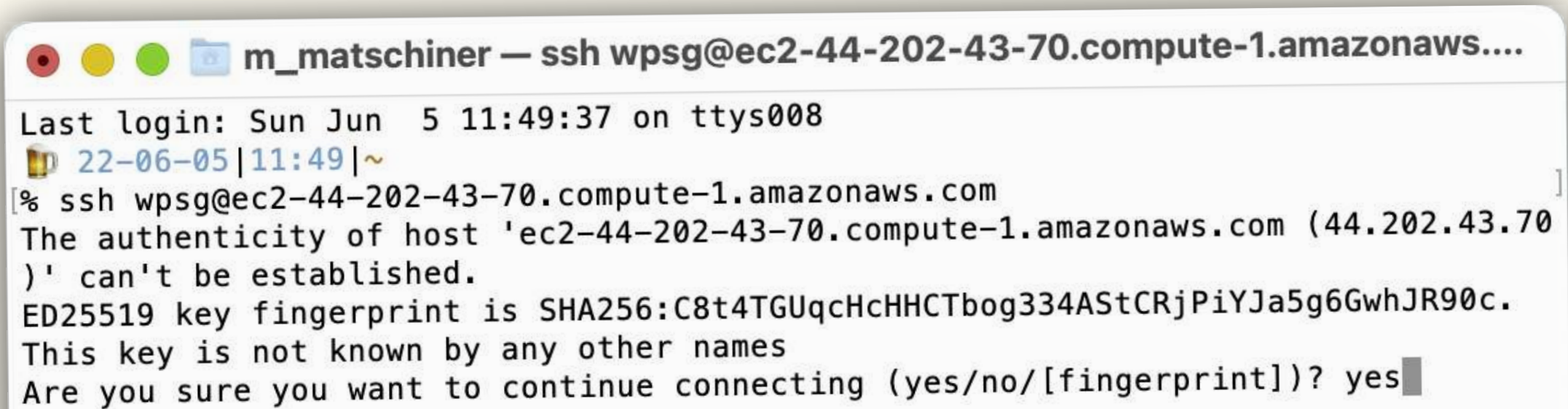


A terminal window titled "m_matschiner — -zsh — 80x24" with standard macOS window controls (red, yellow, green buttons). The terminal displays the following text:

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Last login: Sun Jun  5 11:49:37 on ttys008
22:56:05 | 11:49 | ~
% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
```

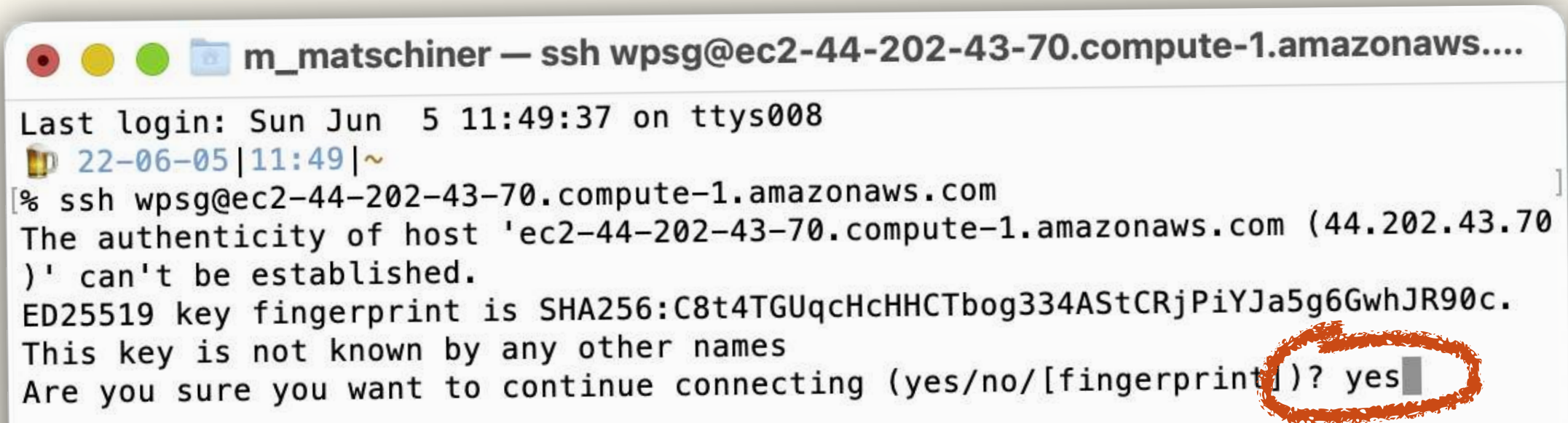
The text "ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com" is circled in orange.

1. SSH / SCP



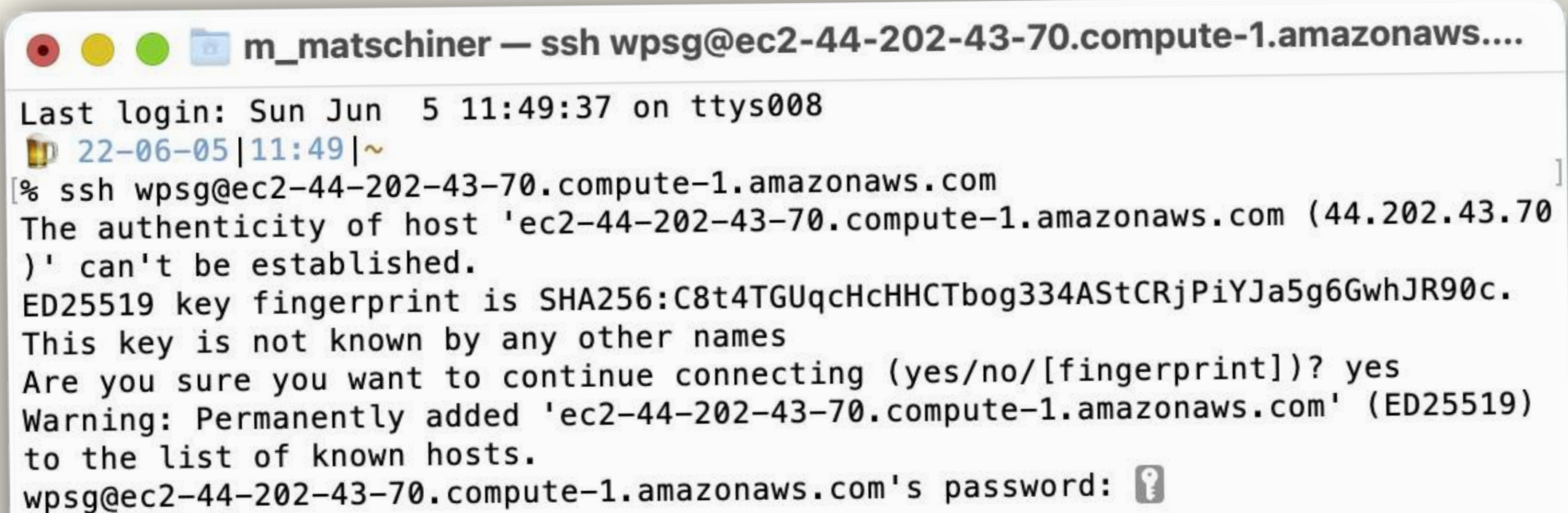
```
m_matschiner — ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
Last login: Sun Jun  5 11:49:37 on ttys008
22-06-05|11:49|~
[% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
The authenticity of host 'ec2-44-202-43-70.compute-1.amazonaws.com (44.202.43.70)' can't be established.
ED25519 key fingerprint is SHA256:C8t4TGUqcHcHHCTbog334AStCRjPiYJa5g6GwhJR90c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

1. SSH / SCP



```
m_matschiner — ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
Last login: Sun Jun  5 11:49:37 on ttys008
22-06-05|11:49|~
[% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
The authenticity of host 'ec2-44-202-43-70.compute-1.amazonaws.com (44.202.43.70)' can't be established.
ED25519 key fingerprint is SHA256:C8t4TGUqcHcHHCTbog334AStCRjPiYJa5g6GwhJR90c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

1. SSH / SCP



A terminal window titled "m_matschiner — ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com". The window shows the output of an SSH command. It starts with "Last login: Sun Jun 5 11:49:37 on ttys008" and a prompt "22-06-05|11:49|~". The user enters the command "% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com". The terminal displays a warning about the authenticity of the host, showing the ED25519 key fingerprint. The user responds "yes" to the prompt "Are you sure you want to continue connecting (yes/no/[fingerprint])?". The terminal then shows "Warning: Permanently added 'ec2-44-202-43-70.compute-1.amazonaws.com' (ED25519) to the list of known hosts." and finally prompts for the password: "wpsg@ec2-44-202-43-70.compute-1.amazonaws.com's password: 🔑".

```
m_matschiner — ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
Last login: Sun Jun 5 11:49:37 on ttys008
22-06-05|11:49|~
[% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
The authenticity of host 'ec2-44-202-43-70.compute-1.amazonaws.com (44.202.43.70)' can't be established.
ED25519 key fingerprint is SHA256:C8t4TGUqcHcHHCTbog334AStCRjPiYJa5g6GwhJR90c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-44-202-43-70.compute-1.amazonaws.com' (ED25519)
to the list of known hosts.
wpsg@ec2-44-202-43-70.compute-1.amazonaws.com's password: 🔑
```

1. SSH / SCP

```
m_matschiner — ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws....  
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22-06-05|11:49|~  
[% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com  
The authenticity of host 'ec2-44-202-43-70.compute-1.amazonaws.com (44.202.43.70  
)' can't be established.  
ED25519 key fingerprint is SHA256:C8t4TGUqcHcHHCTbog334AStCRjPiYJa5g6GwhJR90c.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-44-202-43-70.compute-1.amazonaws.com' (ED25519)  
to the list of known hosts.  
wpsg@ec2-44-202-43-70.compute-1.amazonaws.com's password: 
```

1. SSH / SCP

```
m_matschiner — wpsg@ip-172-31-83-45: ~ — ssh wpsg@ec2-44-202-4...

#####
##  Workshop on Population & Speciation Genomics 2022  ##
##                🌴🌴🌴 Summer Edition 🌴🌴🌴                ##
##                Cesky Krumlov                                ##
##                @evomics #evomics2022                        ##
#####

Welcome to Ubuntu 20.04.4 LTS (5.13.0-1025-aws).

System information as of Sun Jun  5 11:52:24 CEST 2022

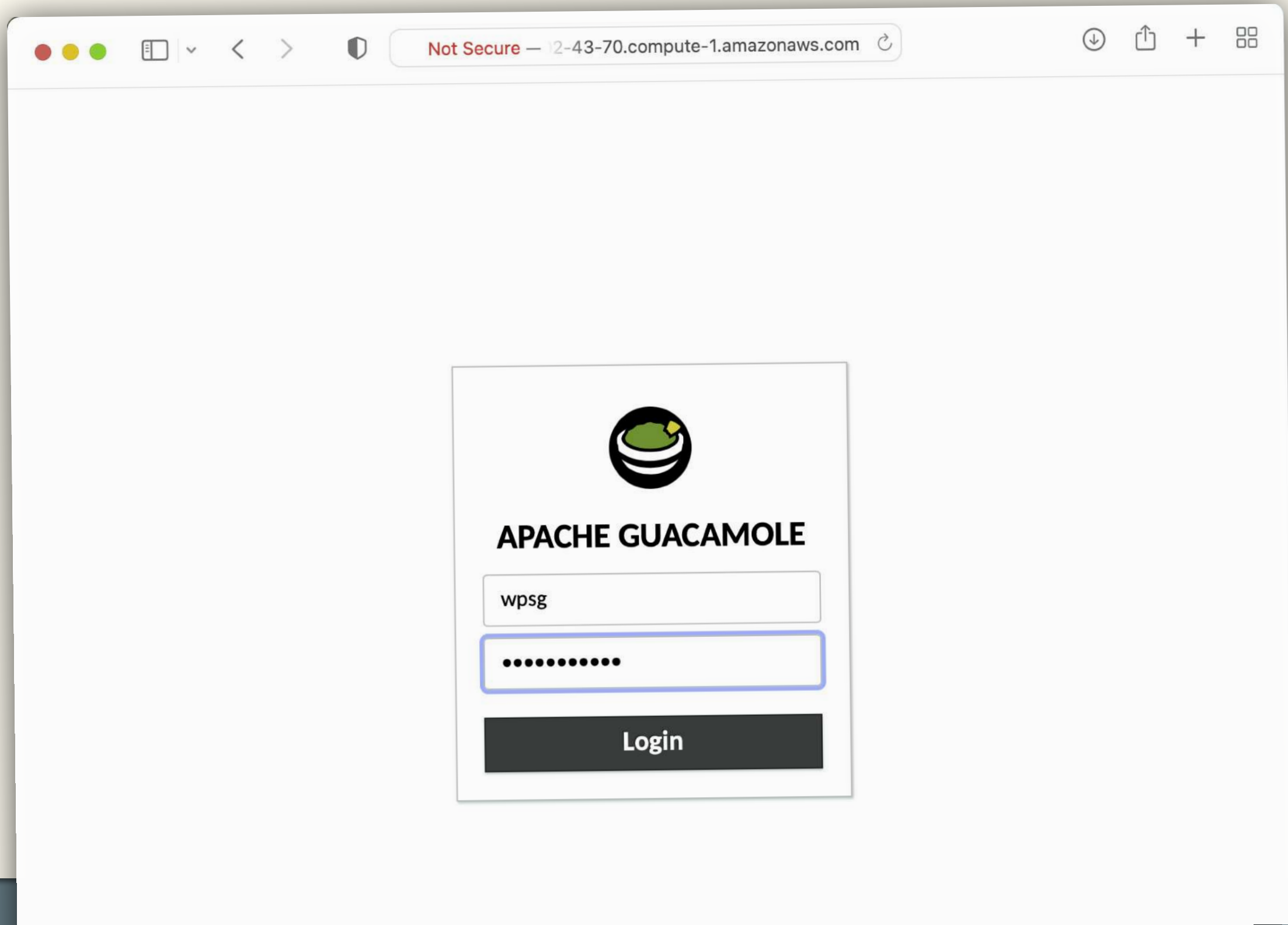
System load:  0.11           Processes:            223
Usage of /:   30.2% of 484.64GB Users logged in:      1
Memory usage: 25%           IPv4 address for docker0: 172.17.0.1
Swap usage:   0%            IPv4 address for ens5:   172.31.83.45

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

https://ubuntu.com/aws/pro
Last login: Sun Jun  5 11:28:17 2022 from 141.5.8.11
(base) wpsg@ip-172-31-83-45: [~]$
```

2. Quacamole

2. Guacamole

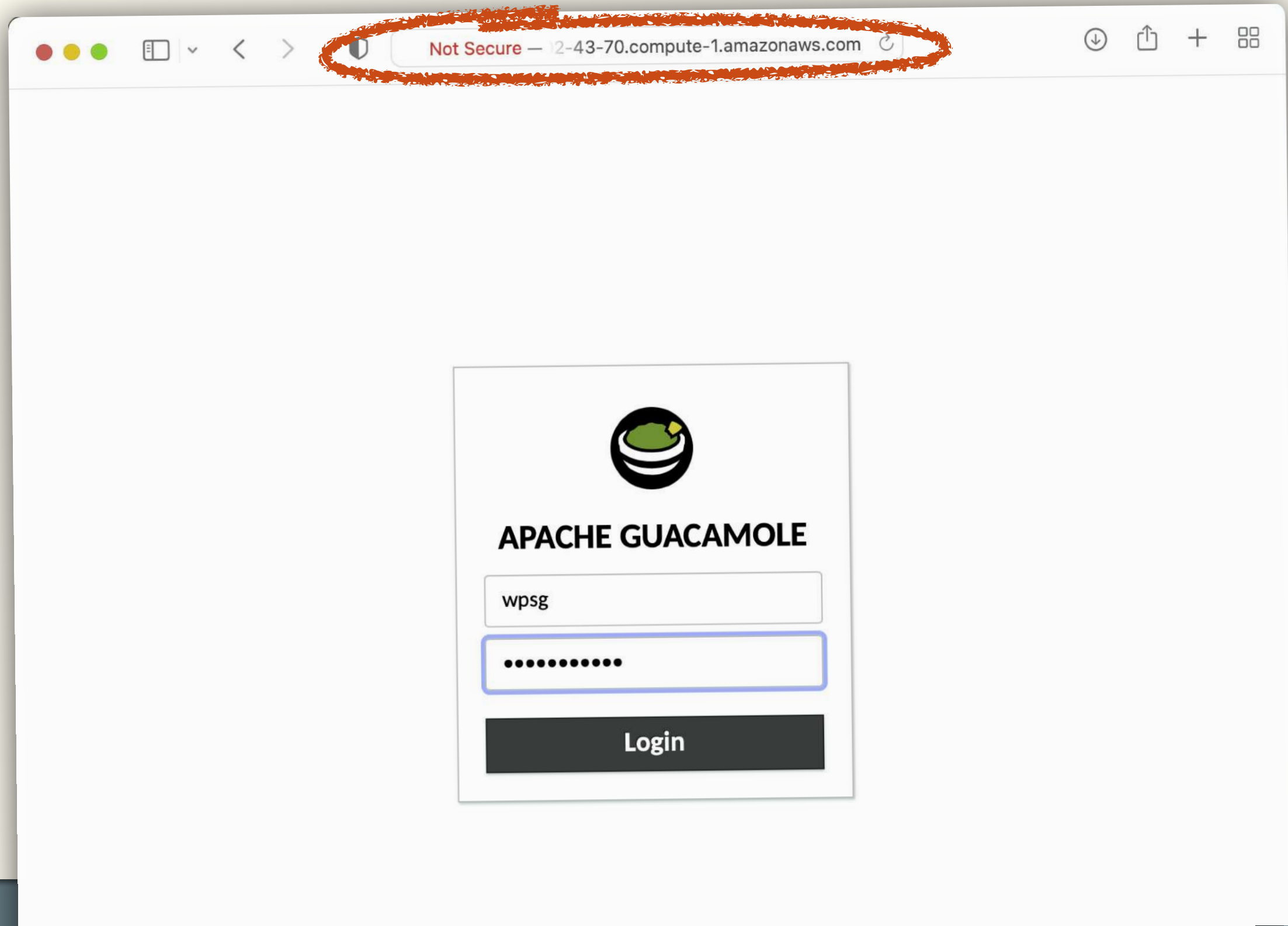


A screenshot of a web browser displaying the Apache Guacamole login page. The browser's address bar shows the URL `12-43-70.compute-1.amazonaws.com` with a "Not Secure" warning. The login form is centered on the page and contains the following elements:

- A logo at the top, which is a green mole head inside a black circle.
- The text **APACHE GUACAMOLE** in bold, black, uppercase letters.
- A text input field containing the username `wpsg`.
- A password input field, currently masked with ten black dots. This field is highlighted with a blue border.
- A dark gray button with the text **Login** in white.

2. Guacamole

...amazonaws.com:8080/guacamole



Not Secure — 12-43-70.compute-1.amazonaws.com



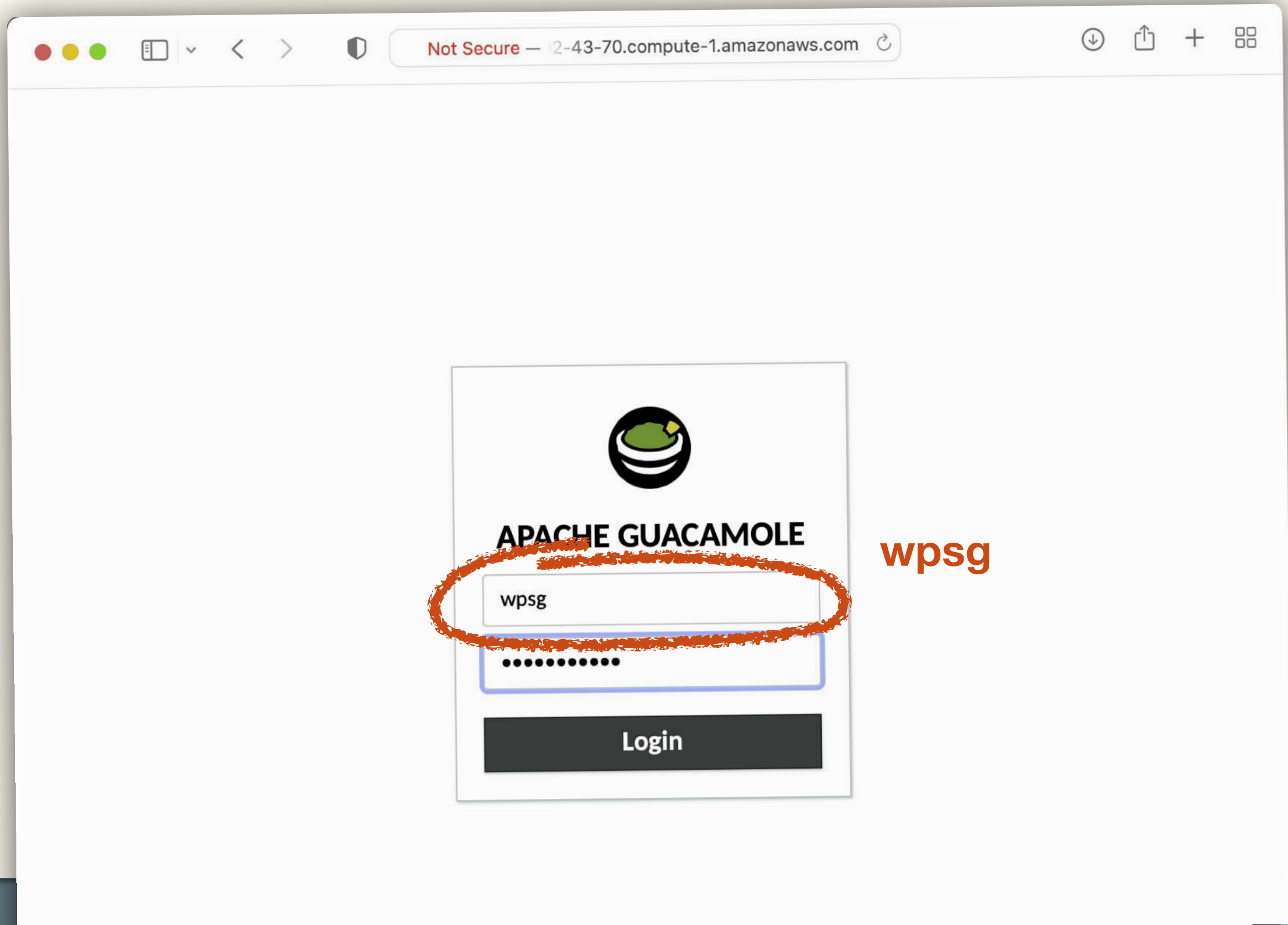
APACHE GUACAMOLE

wpsg

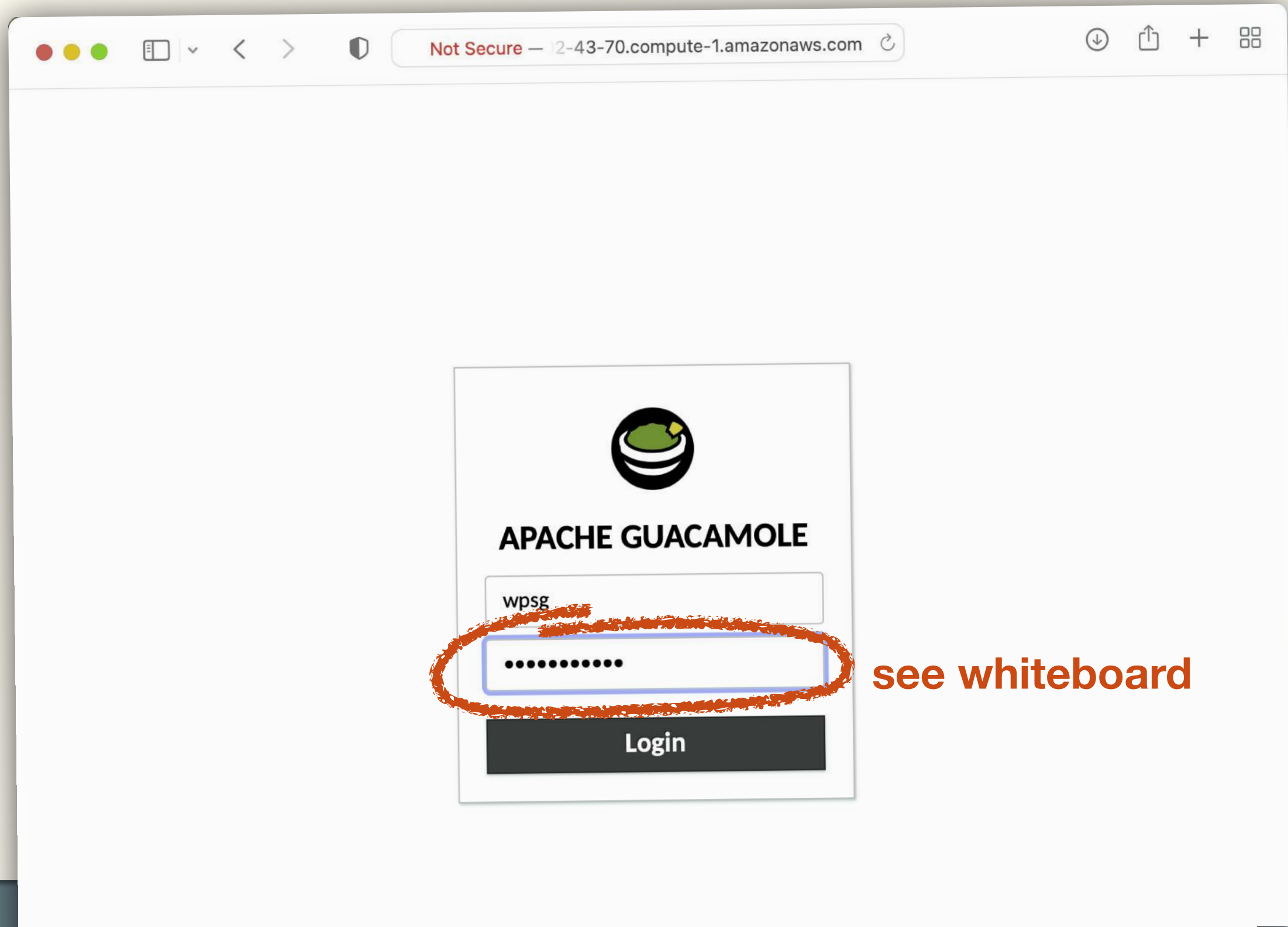
.....

Login

2. Guacamole



2. Guacamole



Not Secure — 12-43-70.compute-1.amazonaws.com



APACHE GUACAMOLE

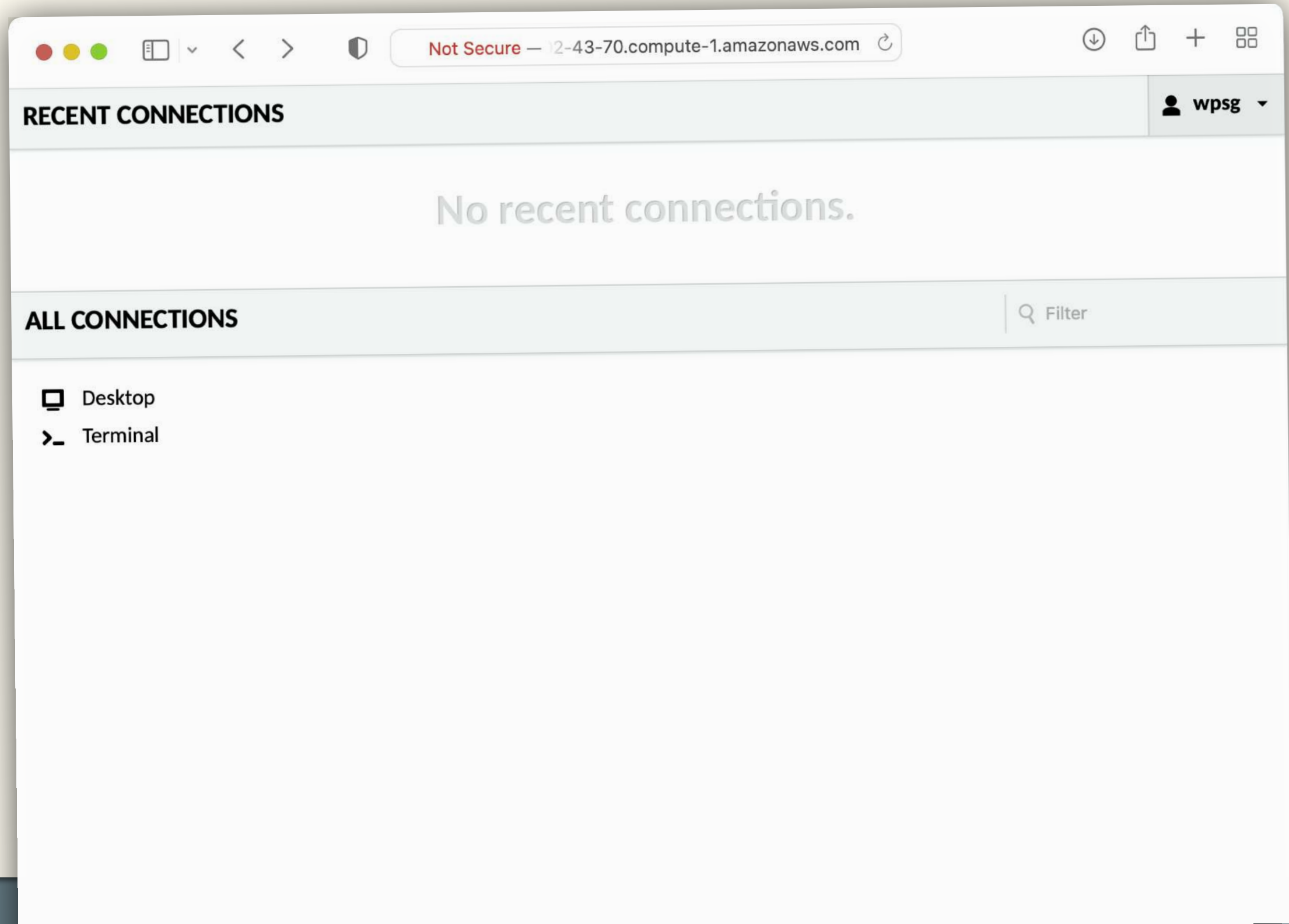
wpsg

.....

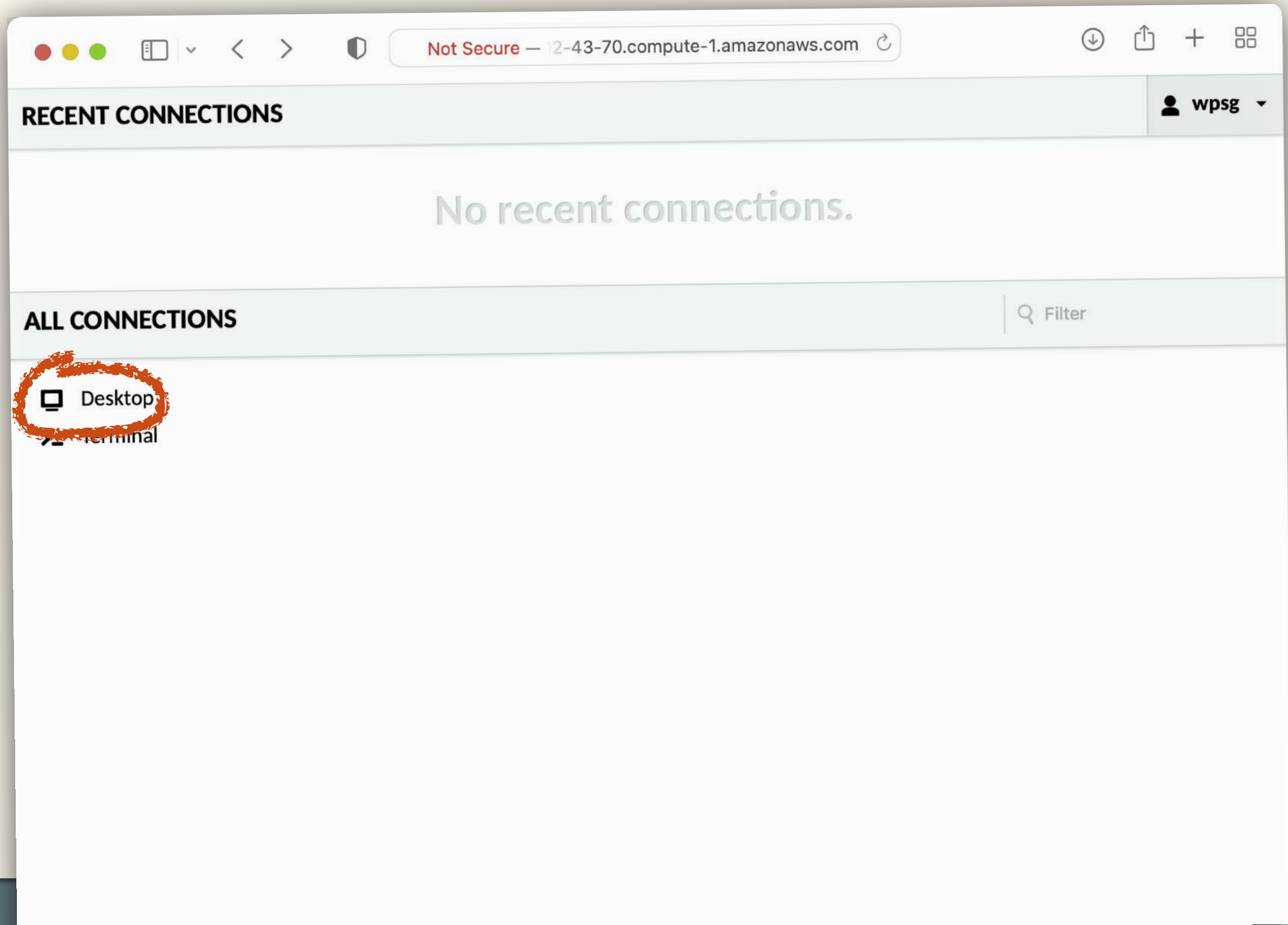
Login

see whiteboard

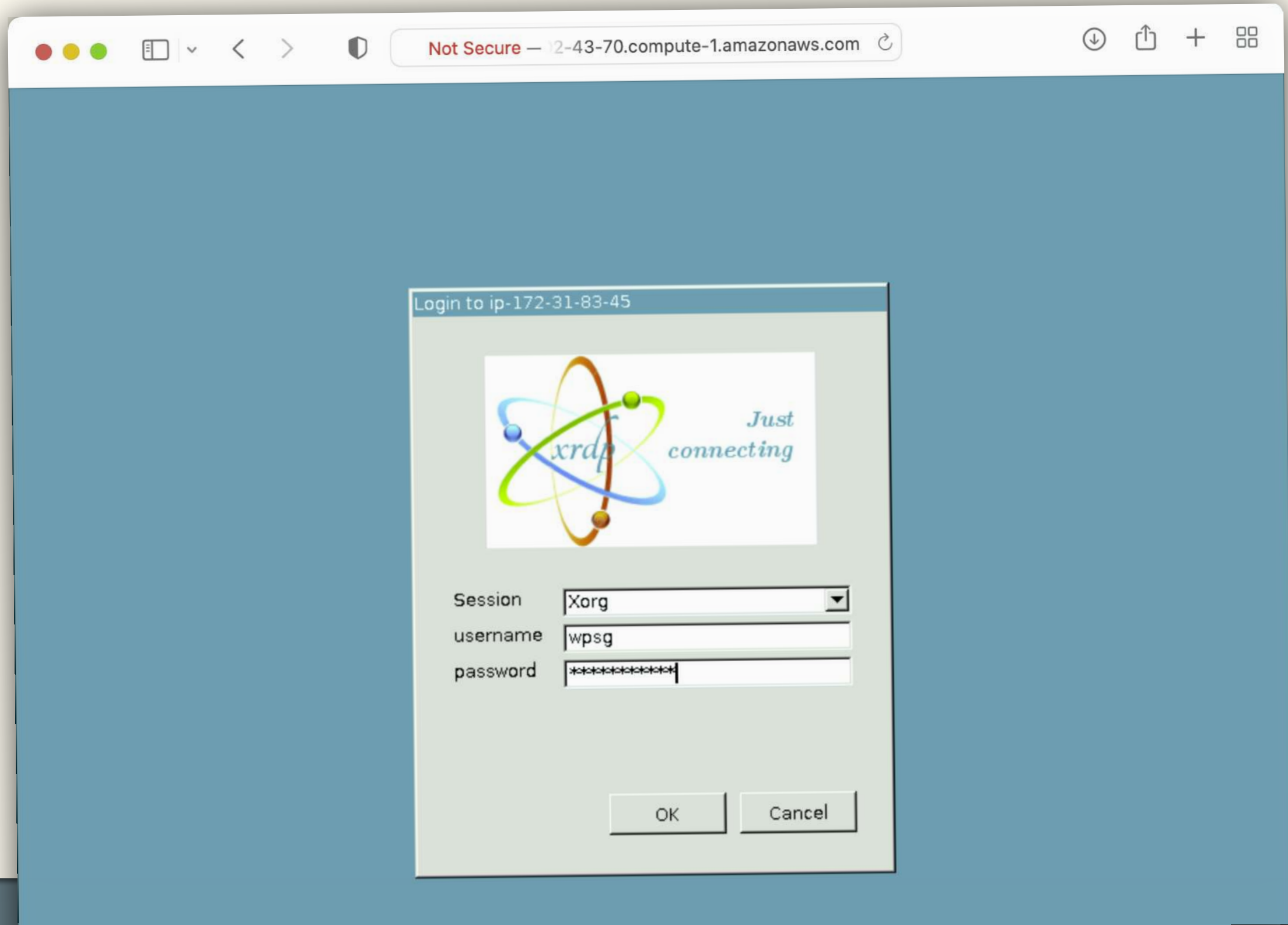
2. Guacamole



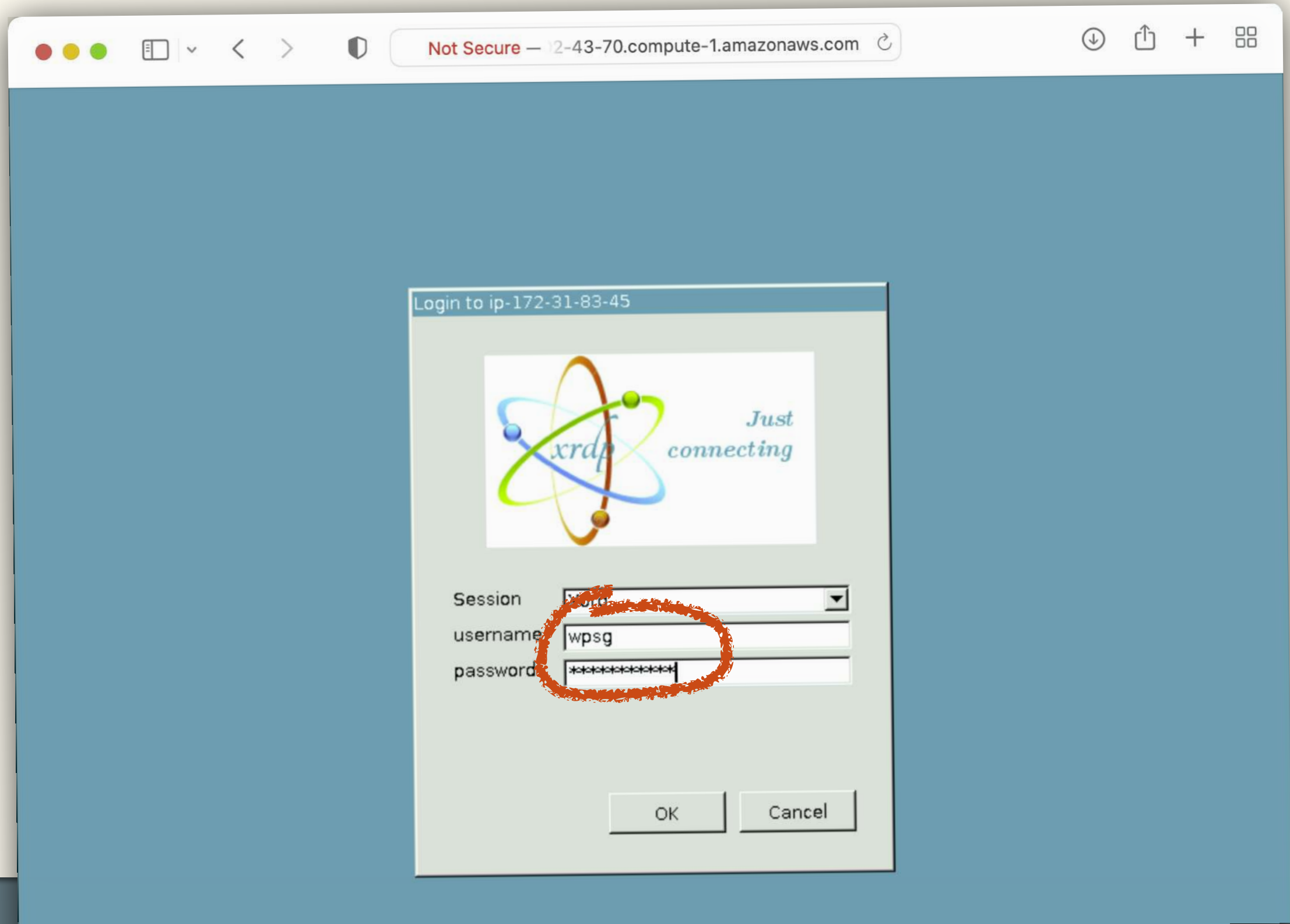
2. Guacamole



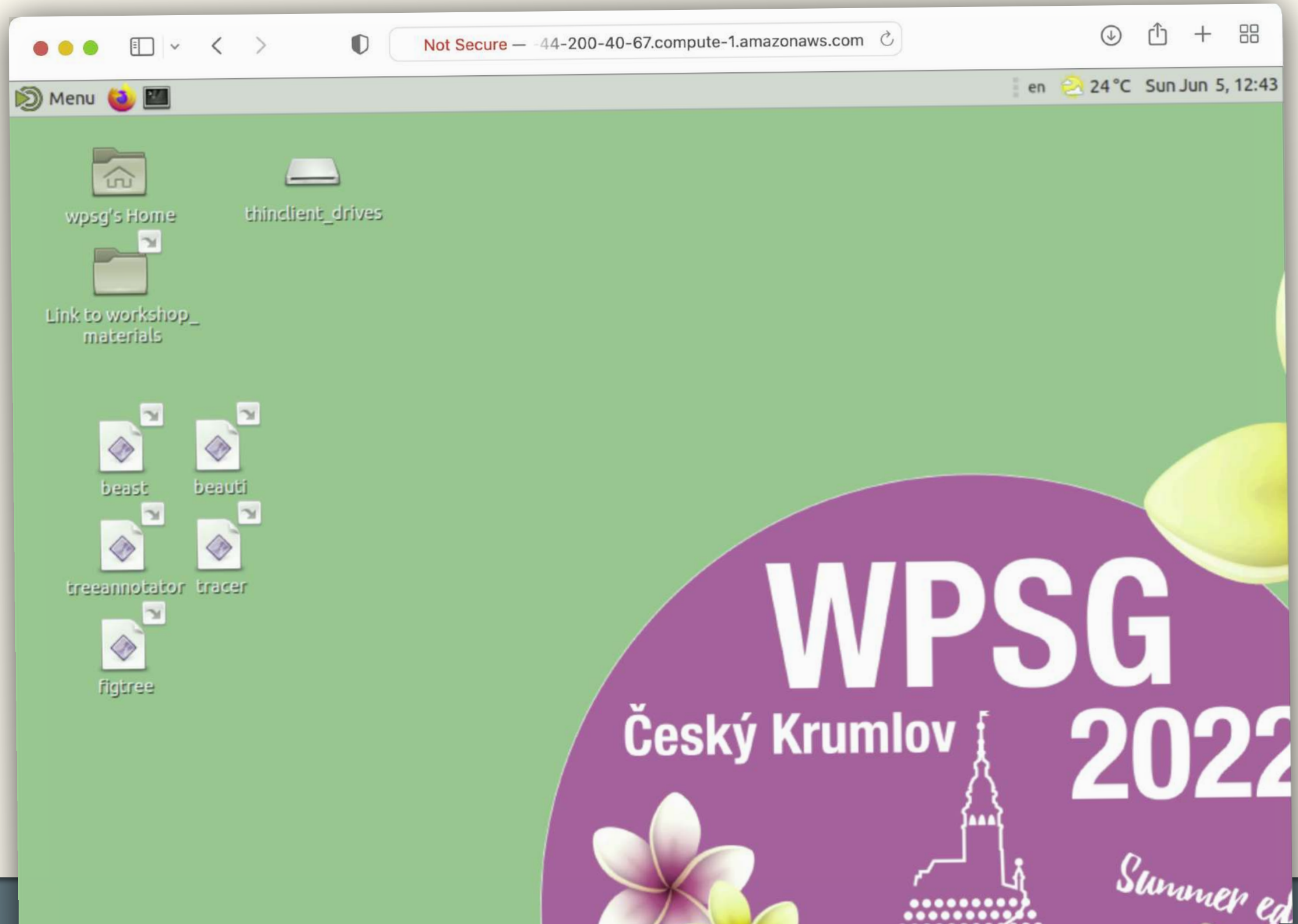
2. Guacamole



2. Guacamole

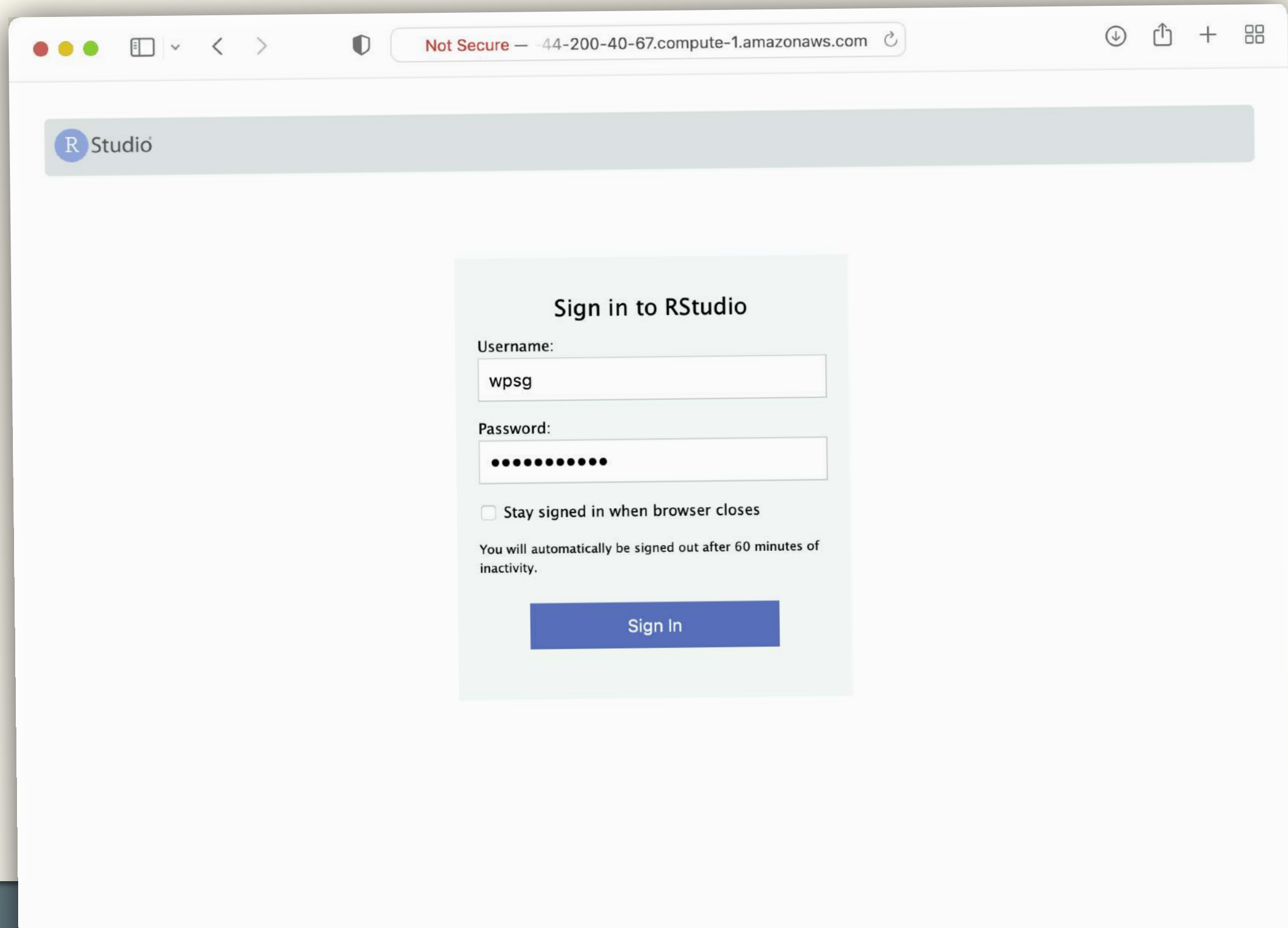


2. Guacamole



3. RStudio

3. RStudio



The image shows a web browser window displaying the RStudio login page. The browser's address bar shows the URL `44-200-40-67.compute-1.amazonaws.com` and indicates the connection is "Not Secure". The RStudio logo is visible in the top left of the page. The main content area features a "Sign in to RStudio" form with the following elements:

- Username:** A text input field containing the value `wpsg`.
- Password:** A password input field represented by a series of dots.
- ☐ Stay signed in when browser closes
- A warning message: "You will automatically be signed out after 60 minutes of inactivity."
- A blue "Sign In" button.

3. RStudio

...amazonaws.com:8787

Sign in to RStudio

Username:
wpsg

Password:
●●●●●●●●

☐ Stay signed in when browser closes

You will automatically be signed out after 60 minutes of inactivity.

Sign In

3. RStudio

...amazonaws.com:8787

Sign in to RStudio

Username:
wpsg

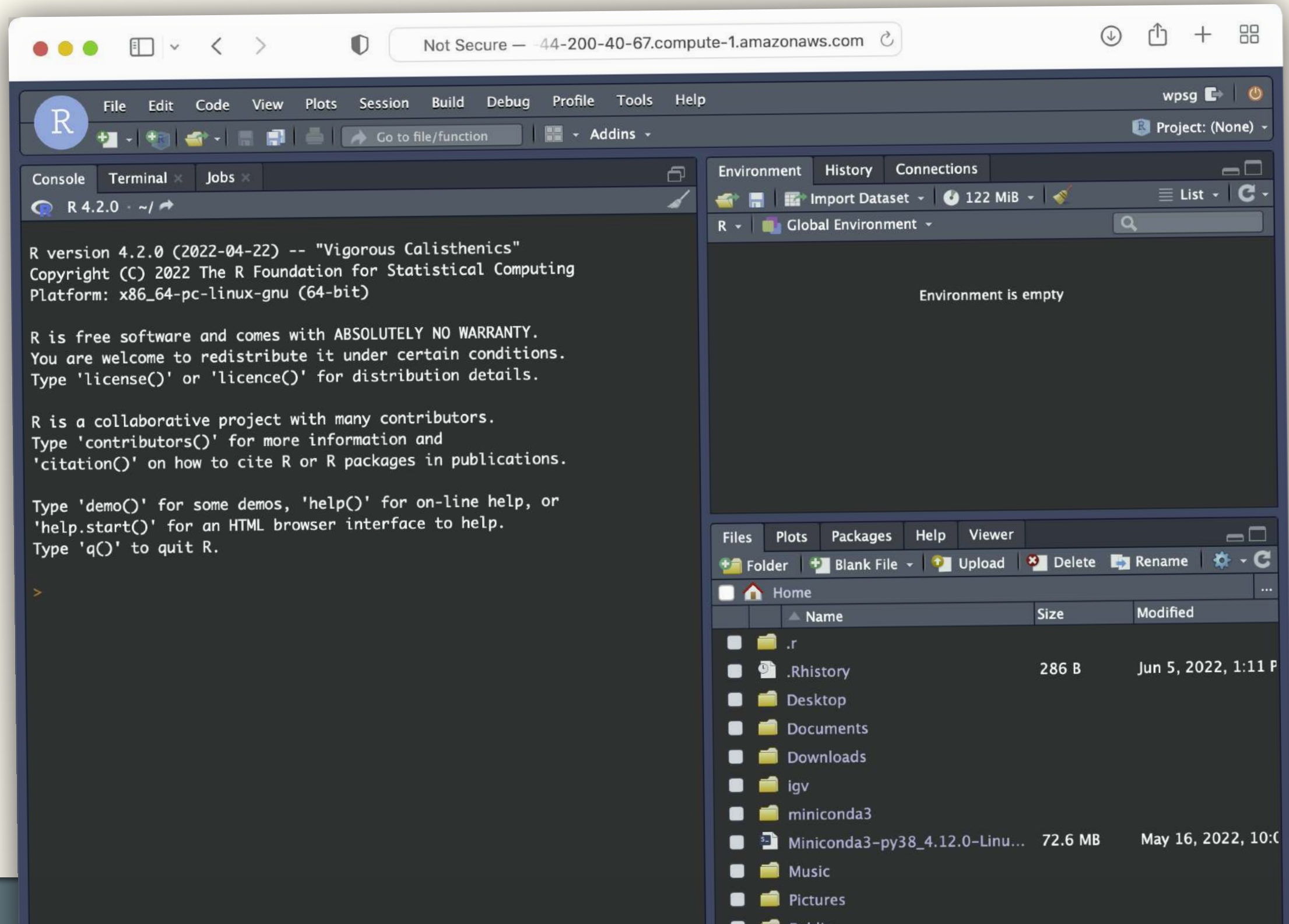
Password:
●●●●●●●●

☐ Stay signed in when browser closes

You will automatically be signed out after 60 minutes of inactivity.

Sign In

3. RStudio



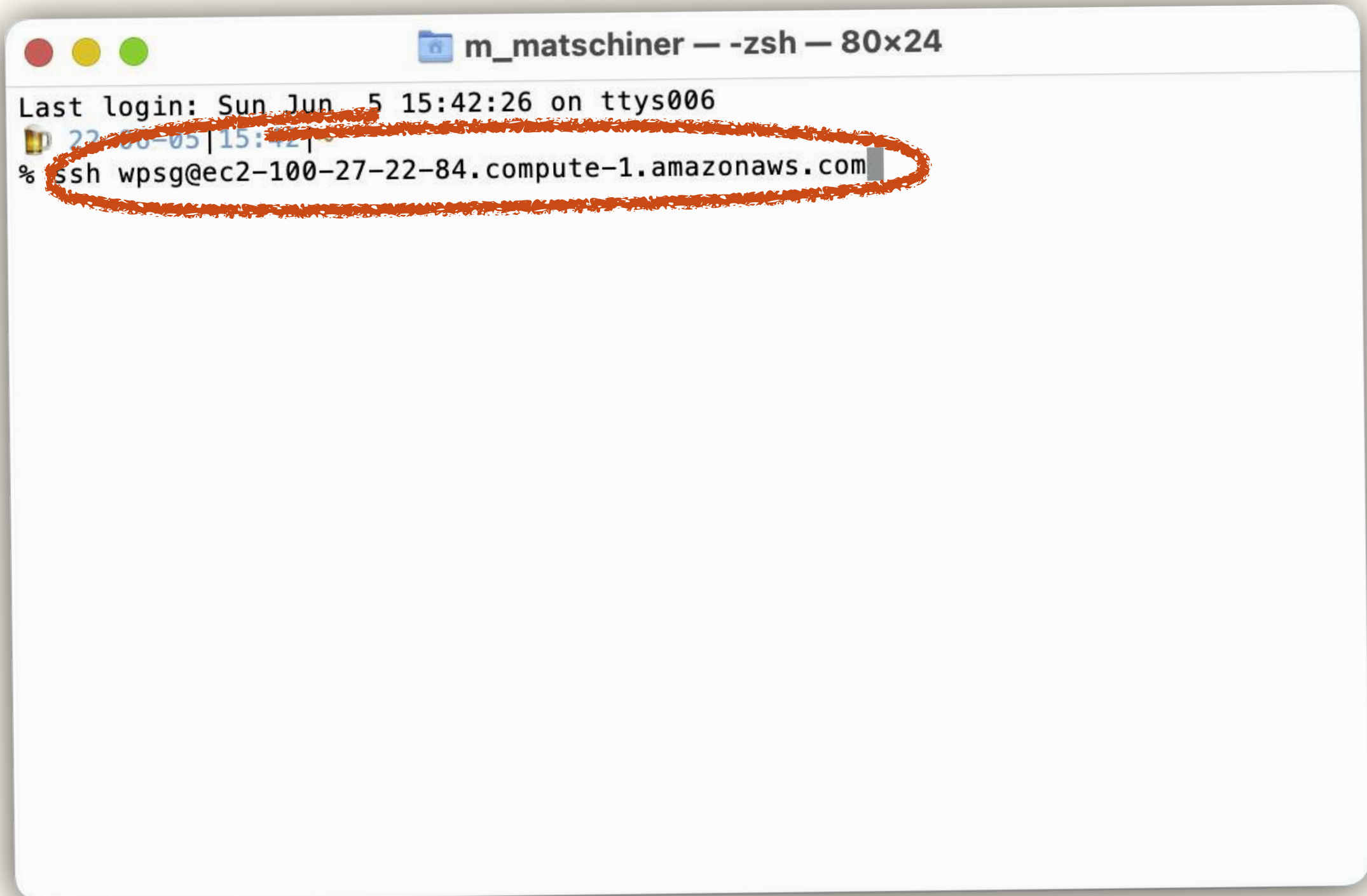
4. Jupyter Notebooks

4. Jupyter Notebooks



```
m_matschiner — -zsh — 80x24
Last login: Sun Jun  5 15:42:26 on ttys006
22-06-05|15:42|~
% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com
```

4. Jupyter Notebooks

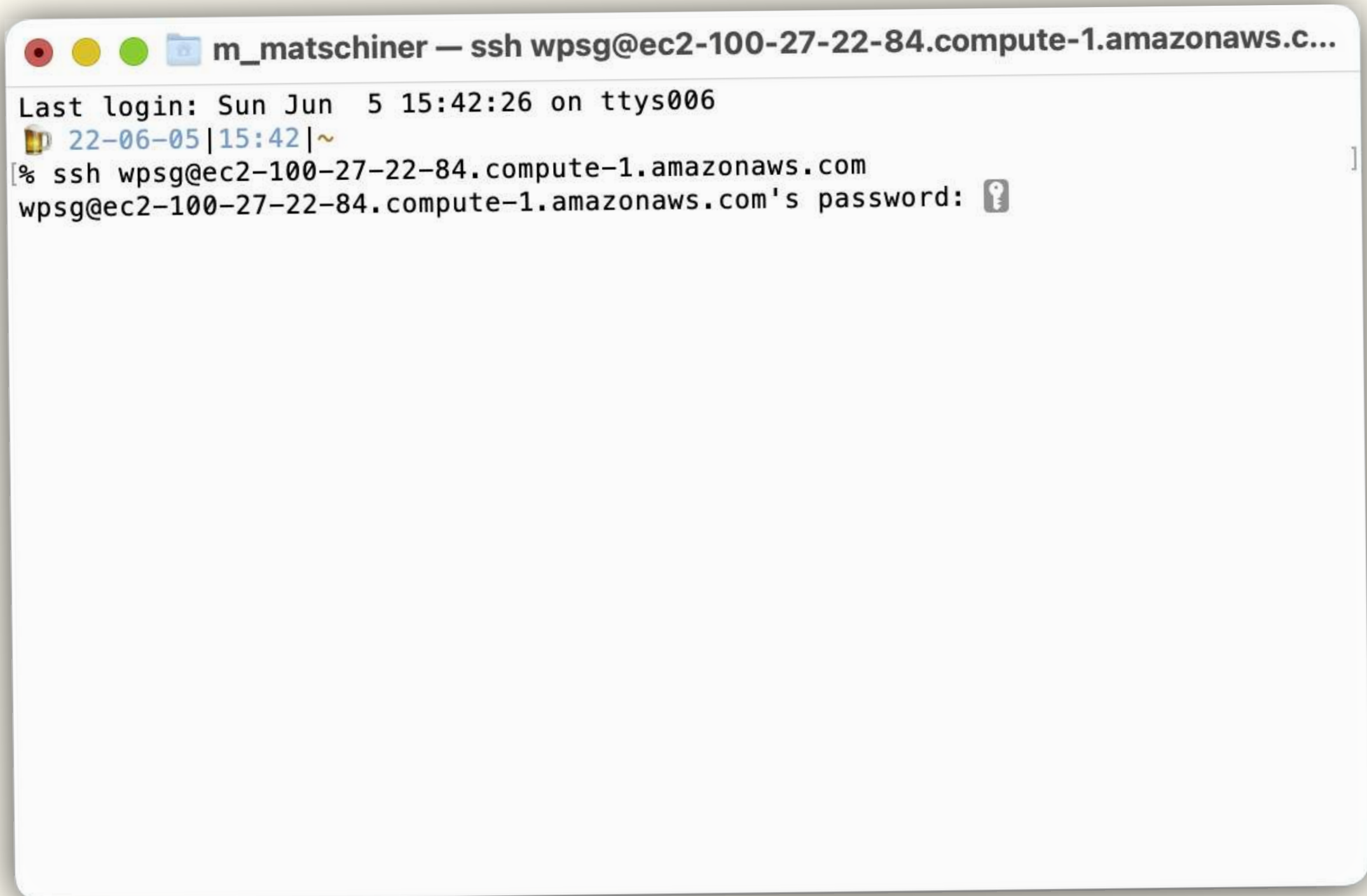


A terminal window titled "m_matschiner — -zsh — 80x24" is shown. The window contains the following text:

```
Last login: Sun Jun  5 15:42:26 on ttys006
22-06-05 15:42
% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com
```

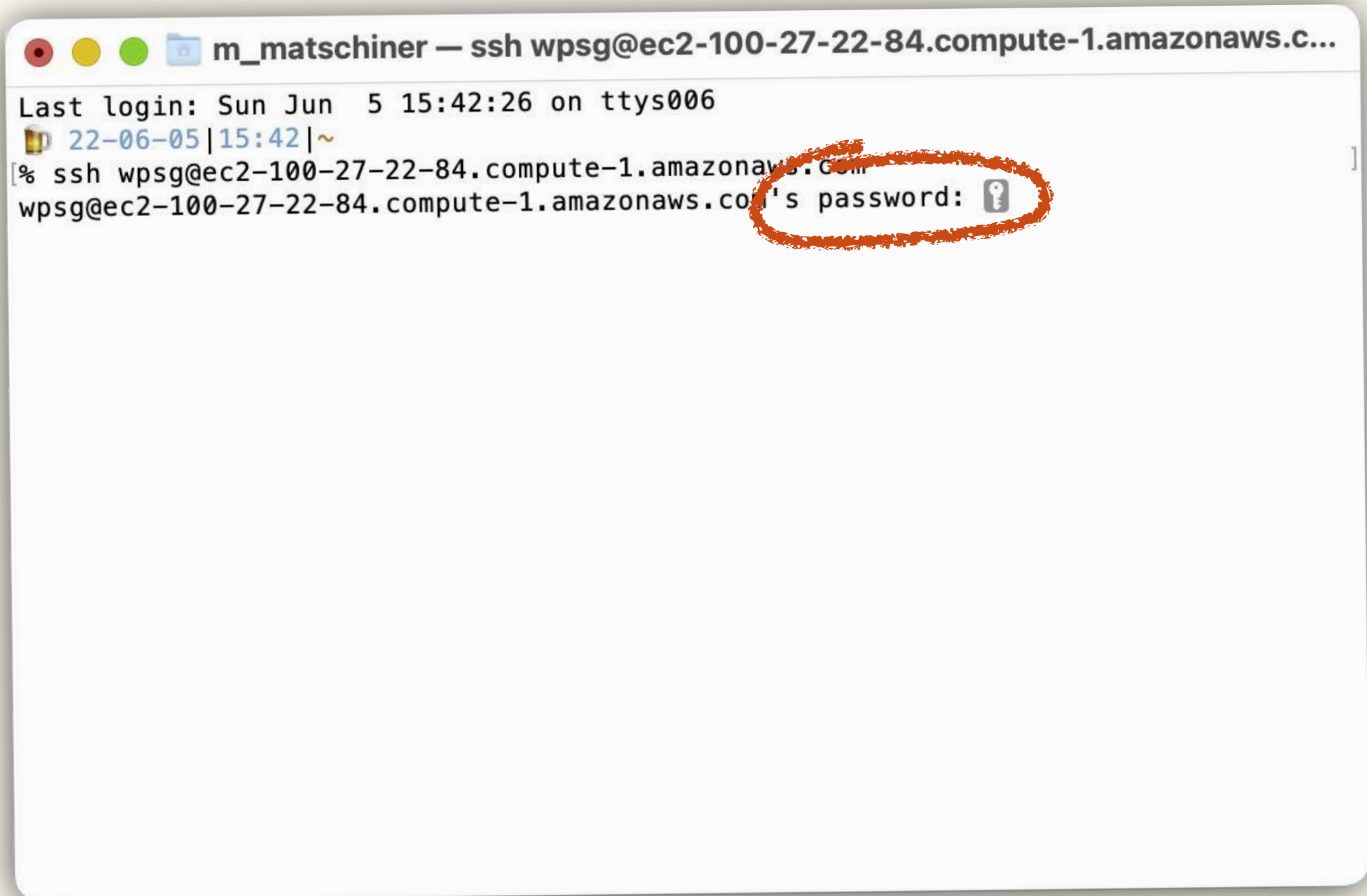
The command `ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com` is circled in orange.

4. Jupyter Notebooks



```
m_matschiner — ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.c...  
Last login: Sun Jun  5 15:42:26 on ttys006  
22-06-05|15:42|~  
[% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com  
wpsg@ec2-100-27-22-84.compute-1.amazonaws.com's password: ]
```

4. Jupyter Notebooks



A terminal window titled "m_matschiner — ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.c...". The window shows the following text:

```
Last login: Sun Jun  5 15:42:26 on ttys006
22-06-05|15:42|~
[% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com
wpsg@ec2-100-27-22-84.compute-1.amazonaws.com's password: 
```

The password prompt is circled in orange.

4. Jupyter Notebooks

```
m_matschiner — wpsg@ip-172-31-86-137: ~ — ssh wpsg@ec2-100-27-2...

#####
##  Workshop on Population & Speciation Genomics 2022  ##
##                🌴🌴🌴 Summer Edition 🌴🌴🌴                ##
##                Cesky Krumlov                                ##
##                @evomics #evomics2022                        ##
#####

Welcome to Ubuntu 20.04.4 LTS (5.13.0-1025-aws).

System information as of Sun Jun  5 15:43:27 CEST 2022

System load:  0.13                       Processes:            162
Usage of /:   30.2% of 484.64GB           Users logged in:     1
Memory usage: 18%                       IPv4 address for docker0: 172.17.0.1
Swap usage:   0%                         IPv4 address for ens5:  172.31.86.137

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

https://ubuntu.com/aws/pro
Last login: Sun Jun  5 15:23:42 2022 from 90.178.205.213
(base) wpsg@ip-172-31-86-137: [~]$ jupyter notebook --no-browser --port=8889
```

4. Jupyter Notebooks

```
m_matschiner — wpsg@ip-172-31-86-137: ~ — ssh wpsg@ec2-100-27-2...

#####
##  Workshop on Population & Speciation Genomics 2022  ##
##                🌴🌴🌴 Summer Edition 🌴🌴🌴                ##
##                Cesky Krumlov                            ##
##                @evomics #evomics2022                    ##
#####

Welcome to Ubuntu 20.04.4 LTS (5.13.0-1025-aws).

System information as of Sun Jun  5 15:43:27 CEST 2022

System load:  0.13                       Processes:            162
Usage of /:   30.2% of 484.64GB           Users logged in:     1
Memory usage: 18%                       IPv4 address for docker0: 172.17.0.1
Swap usage:   0%                         IPv4 address for ens5:  172.31.86.137

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  compliance features.

https://ubuntu.com/aws/pro
Last login: Sun Jun  5 15:23:42 2022 from 90.173.205.215
(base) wpsg@ip-172-31-86-137: [~]$ jupyter notebook --no-browser --port=8889
```

4. Jupyter Notebooks

```
m_matschiner — wpsg@ip-172-31-86-137: ~ — ssh wpsg@ec2-100-27-2...

Welcome to Ubuntu 20.04.4 LTS (5.13.0-1025-aws).

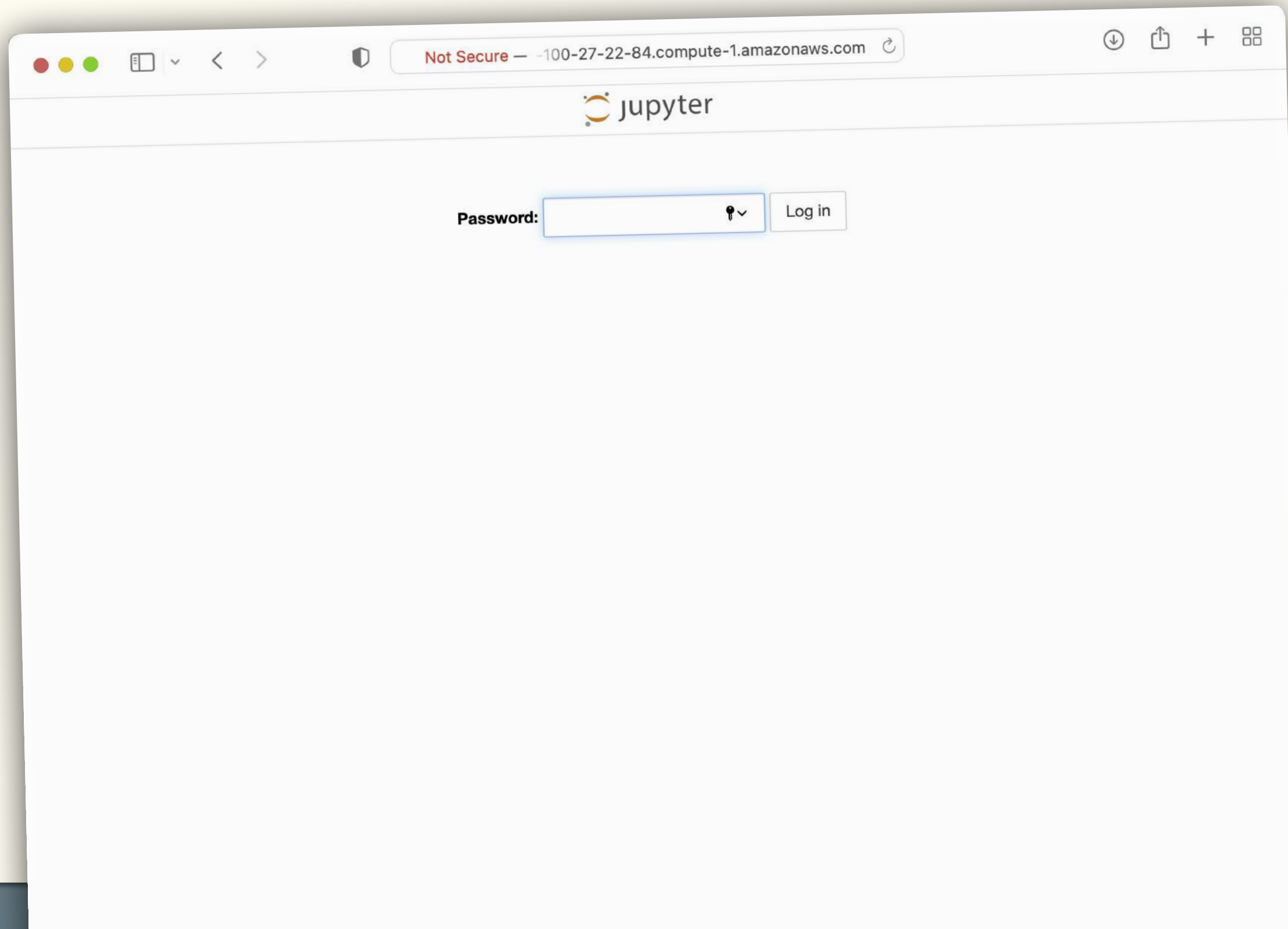
System information as of Sun Jun  5 15:43:27 CEST 2022

System load:  0.13               Processes:            162
Usage of /:   30.2% of 484.64GB   Users logged in:     1
Memory usage: 18%               IPv4 address for docker0: 172.17.0.1
Swap usage:   0%                 IPv4 address for ens5:  172.31.86.137

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  compliance features.

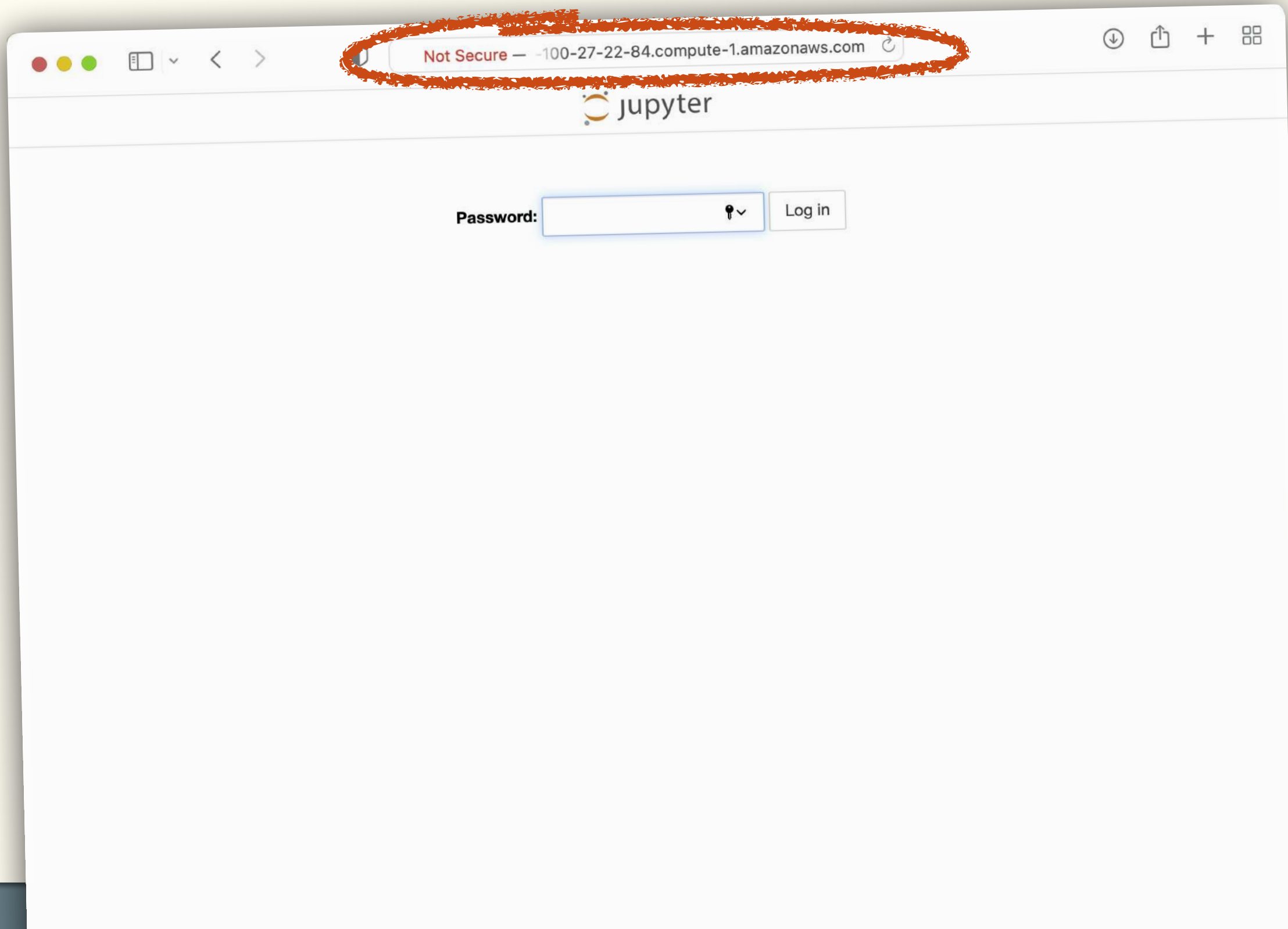
https://ubuntu.com/aws/pro
Last login: Sun Jun  5 15:23:42 2022 from 90.178.205.213
(base) wpsg@ip-172-31-86-137: [~]$ jupyter notebook --no-browser --port=8889
[I 15:43:50.408 NotebookApp] Serving notebooks from local directory: /home/wpsg
[I 15:43:50.408 NotebookApp] The Jupyter Notebook is running at:
[I 15:43:50.408 NotebookApp] http://ip-172-31-86-137:8889/
[I 15:43:50.408 NotebookApp] Use Control-C to stop this server and shut down all
kernels (twice to skip confirmation).
```

4. Jupyter Notebooks



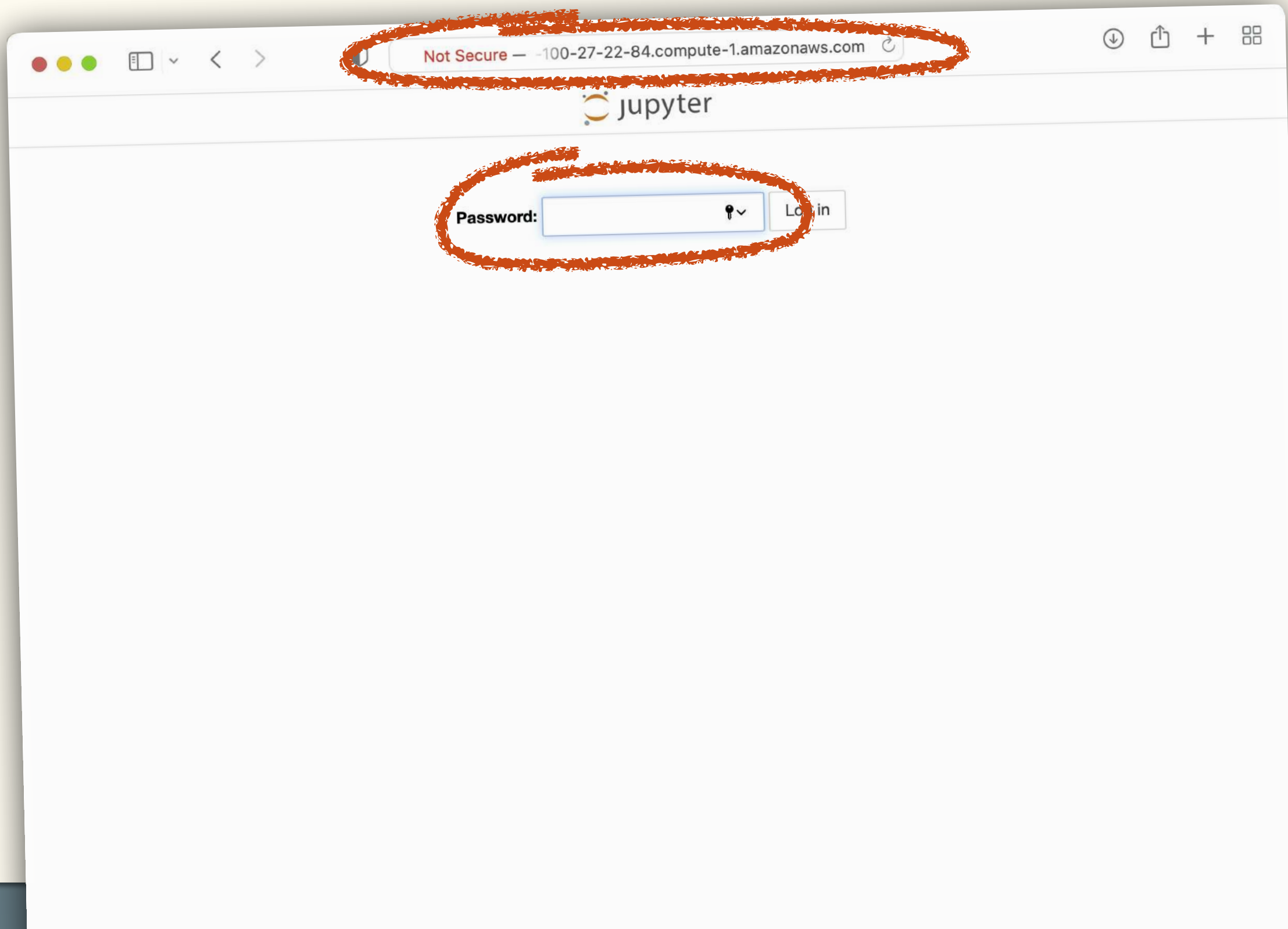
4. Jupyter Notebooks

...amazonaws.com:8889



4. Jupyter Notebooks

...amazonaws.com:8889



4. Jupyter Notebooks

The screenshot shows the Jupyter web interface in a browser. The address bar indicates the URL is `-100-27-22-84.compute-1.amazonaws.com`. The interface has a top navigation bar with 'Files', 'Running', and 'Clusters' tabs. Below this, there are buttons for 'Upload', 'New', and a refresh icon. A message says 'Select items to perform actions on them.' The main area is a file browser showing a list of files and folders. The columns are 'Name', 'Last Modified', and 'File size'.

	Name	Last Modified	File size
☐	/		
☐	Desktop	a day ago	
☐	Documents	2 years ago	
☐	Downloads	a day ago	
☐	igv	5 days ago	
☐	miniconda3	2 days ago	
☐	Music	2 years ago	
☐	Pictures	2 years ago	
☐	Public	2 years ago	
☐	R	2 years ago	
☐	software	a day ago	
☐	Templates	2 years ago	
☐	thinclient_drives	19 days ago	
☐	Videos	2 years ago	
☐	workshop_materials	a day ago	
☐	Miniconda3-py38_4.12.0-Linux-x86_64.sh	20 days ago	76.1 MB
☐	SV_Env.yaml	2 days ago	2.09 kB

Activity

EVOLUTION AND GENOMICS

Intensive and immersive training opportunities



2022 WORKSHOP ON POPULATION AND SPECIATION GENOMICS, CESKY KRUMLOV



The 2022 Workshop on Population and Speciation Genomics is held in [Český Krumlov](#) from 5 June to 17 June. It brings together an international collection of faculty members and Workshop participants to study and discuss current ideas and techniques for the analysis of genomic data on the level of populations and closely related species. The Workshop consists of a series of lectures, demonstrations and computer laboratories that cover theory and practice of population and speciation genomics analyses.

The Workshop registration fee is \$1,950 (USD). This amount does not cover travel, lodging or boarding. Many important details about the Workshop series can be read on our [FAQ](#) page.

The Workshop on Population and Speciation Genomics is organized and co-directed by:

[Scott Handley](#), Washington University, US
[Milan Malinsky](#), University of Bern, Switzerland
[Michael Matschiner](#), University of Oslo, Norway
[Britta S. Meyer](#), Max Planck Institute for Evolutionary Biology, Plön, Germany
[Walter Salzburger](#), University of Basel, Switzerland
[Jan Stefka](#), University of South Bohemia České Budějovice, Czech Republic
[Emiliano Trucchi](#), Università Politecnica delle Marche, Ancona, Italy

ANNOUNCEMENTS

- Welcome to the WPSG in Český Krumlov!! If you signed up for the UNIX primer, we meet at 4 p.m. at the House of Prelate. Otherwise we are looking forward to seeing you at 7 p.m. at the Reception dinner at the Hotel Zlatý Andel!

LINKS

- [Amazon instances IP addresses](#)
- [Map of important locations in Český Krumlov](#)

SCHEDULE

Week 1 : 5-11 June, 2022

DATE	DAY	TIME	PRESENTER	TOPIC	LOCATION
5 Jun	Sunday	4p – 6p	Workshop Team	UNIX primer (optional)	Prelate
		7p – 10p	Everyone	Reception dinner	Hotel Zlatý Andel
6 Jun	Monday	9a – 10:30a	Workshop Team	Workshop introduction	Egon Schiele
		10:30a – 12p	Michael Matschiner	Likelihood and probability	Egon Schiele
		12p – 12:15p	Everyone	Group photo	Outside Prelate
		2p – 3:30p	Workshop Team	AMI introduction	Prelate
		3:30p – 5p	Workshop Team	Probability activity	Prelate
		7p – 10p	Everyone	Participant introduction	Prelate
7 Jun	Tuesday	9a – 12p	Rasmus Nielsen	Population genomics	Egon Schiele
		2p – 5p	Rasmus Nielsen and Thorfinn	ANGSD activity	Prelate

[Scott Handley](#), Washington University, US
[Milan Malinsky](#), University of Bern, Switzerland
[Michael Matschiner](#), University of Oslo, Norway
[Britta S. Meyer](#), Max Planck Institute for Evolutionary Biology, Plön, Germany
[Walter Salzburger](#), University of Basel, Switzerland
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		3:30p – 5p	Workshop Team	Community activity	Prelate
		7p – 10p	Everyone	Participant introduction	Prelate
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		2p – 5p	Rasmus Nielsen and Thorfinn	ANGSD activity	Prelate

AMAZON INSTANCES

Connecting to your Amazon instance

Michael Matschiner, Milan Malinsky, and the Workshop Team. 6th June 2022

Amazon Web Services and Amazon instances

For this workshop we are going to use a high performance cloud platform called [Amazon Web Services](#) (AWS). This is a flexible resource to get computational work done quickly and relatively inexpensively. We have set up individual virtual machines called “Amazon instances” for each participant. These have all the software and data you will need along with sufficient CPU, RAM, and storage resources. Your instance IP address can be found on [this list](#) and the list of IP addresses is also linked from the [main workshop page \(in the box with links\)](#).

The IP addresses are going to change regularly during the workshop, as we’ll stop the instances overnight and resume them on the next day to cut down the cost that we need to pay to Amazon. Whenever instances are restarted, the IP addresses will change; however, the content of the instance will remain the same. So the files that you write on any given day on your instance should usually still be present on the next. We are going to announce when we stop instances overnight, and we will accept requests to leave instances running in case that you’d like to keep working on an analysis.

In addition to stopping instances overnight, it may also occur that we need to issue completely new instances at some point. This may be the case when/if we need to install additional software or add datasets for activities. In such cases, we’ll terminate old instances, meaning that the files from these instances will not be accessible anymore to you. We are going to announce if/when that happens, and we will give you time to finish analyses or download data if you request it.

Generally, however, we discourage downloading data — at least large datasets — from the Amazon instances, because we have to pay for download volume. We are going to provide a Dropbox directory at the end of the workshop, which will contain the dataset and scripts used during the Workshop, and we ask you to download this Dropbox directory (if interested) instead of copying large volumes of data from the