

# 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!

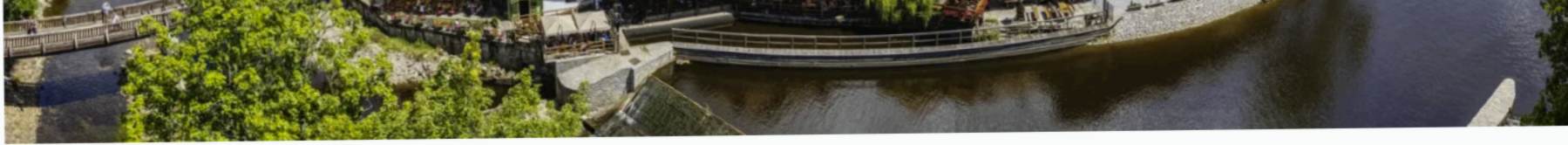
### LINKS

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

## SCHEDULE

Week 1 : 5-11 June, 2022

DATE	DAY	TIME	PRESENTER	TOPIC	LOCATION
					Prelate



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



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# 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 three colored window control buttons (red, yellow, green) on the left. The terminal content shows a login message: "Last login: Sun Jun 5 11:49:37 on ttys008", followed by a prompt "22-06-05|11:49|~" and a command "% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com" with a cursor at the end.

```
m_matschiner — -zsh — 80x24
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 output shows a successful SSH connection to an AWS EC2 instance. The prompt is "% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com". The IP address "22.26.05.11:49" is circled in orange.

```
Last login: Sun Jun  5 11:49:37 on ttys008
22.26.05.11:49|~
% ssh wpsg@ec2-44-202-43-70.compute-1.amazonaws.com
```

# 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

```
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.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: [REDACTED]
```

# 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

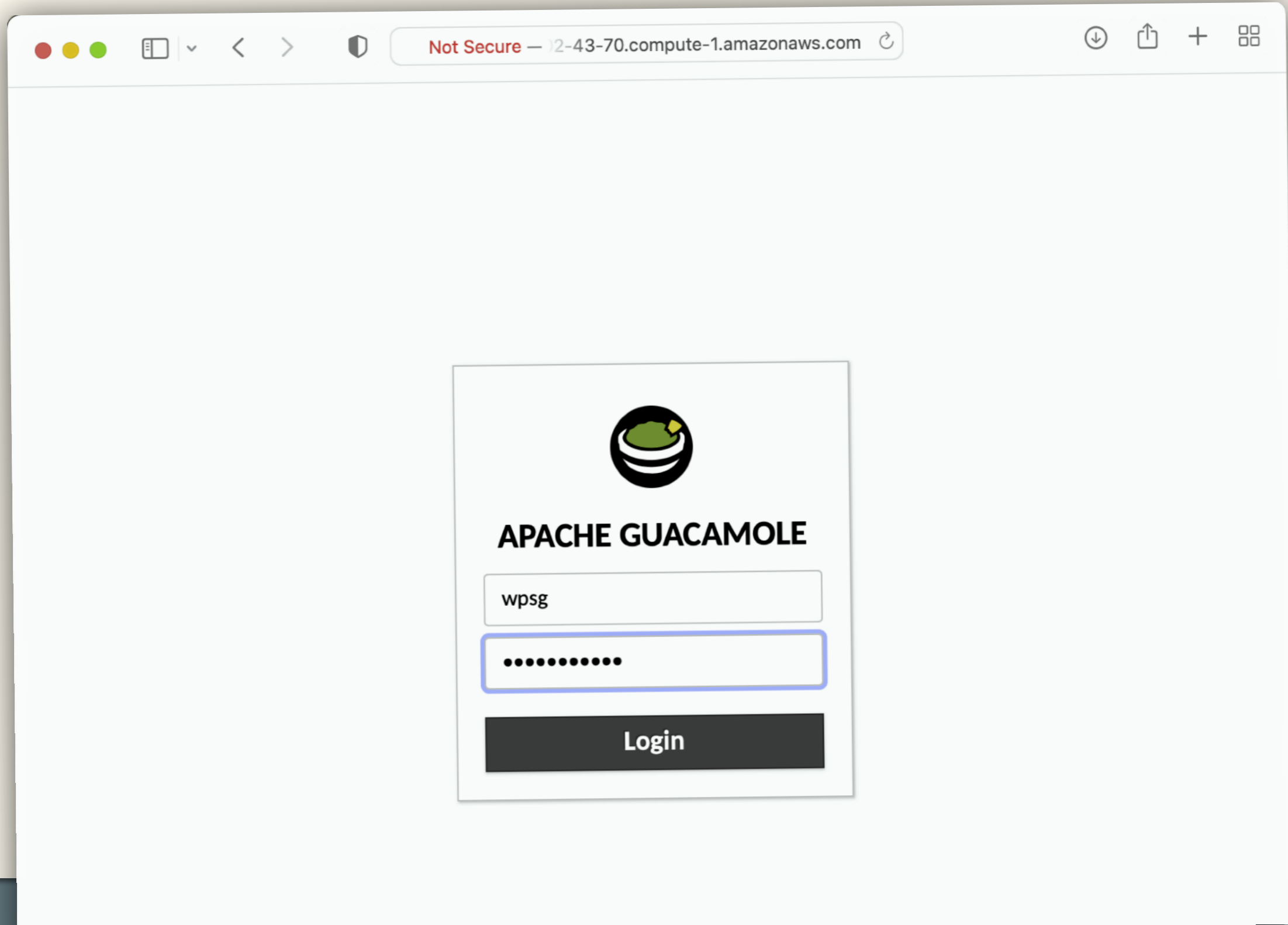
System load: 0.11 Processes: 223
Usage of /: 30.2% of 484.64GB Users logged in: 1
Memory usage: 25% IPv4 address for docker0: 172.17.0.1
Swap usage: 0% IPv4 address for ens5: 172.31.83.45

* 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: [~]$
```

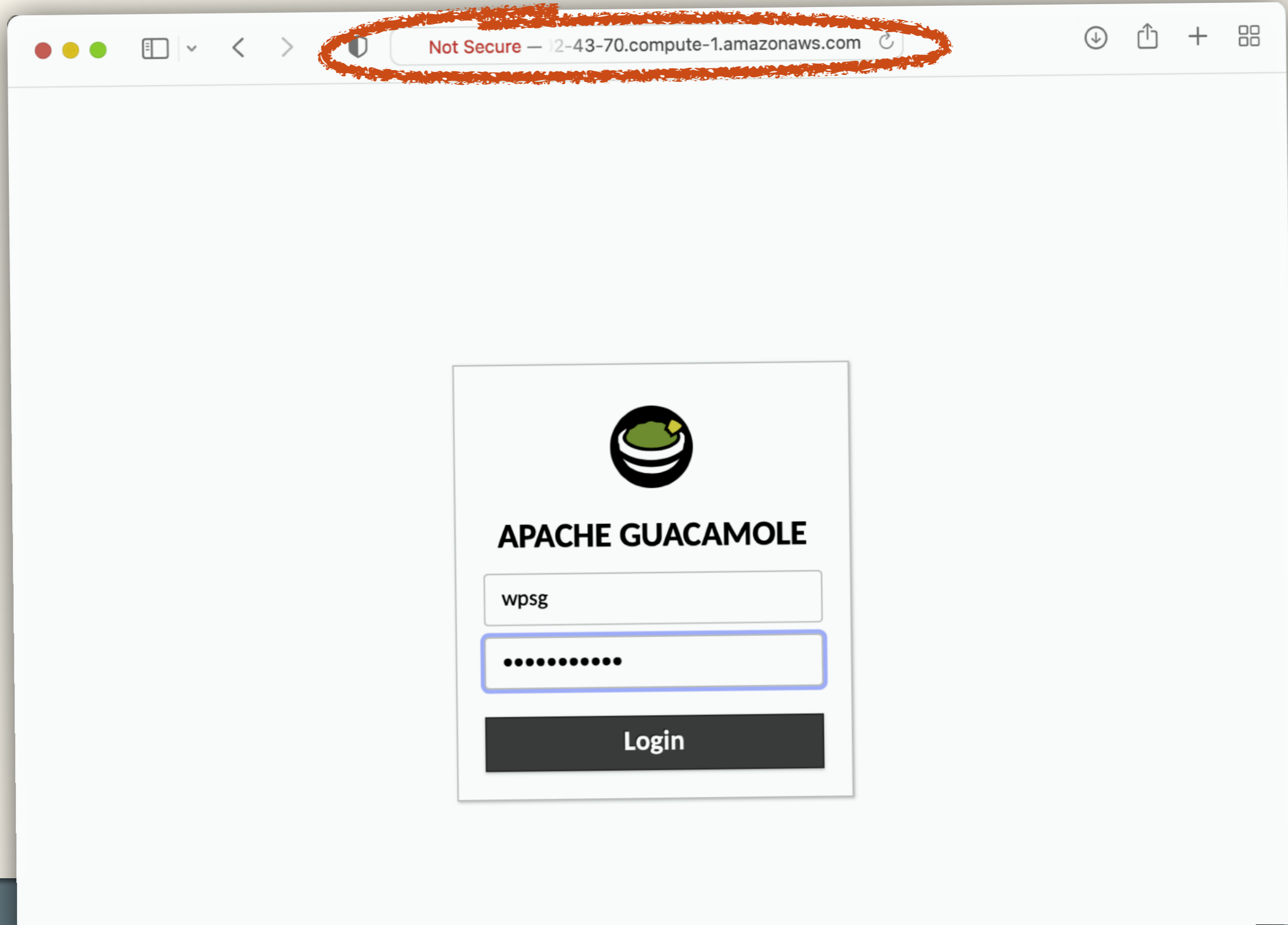
## 2. Quacamole

# 2. Guacamole

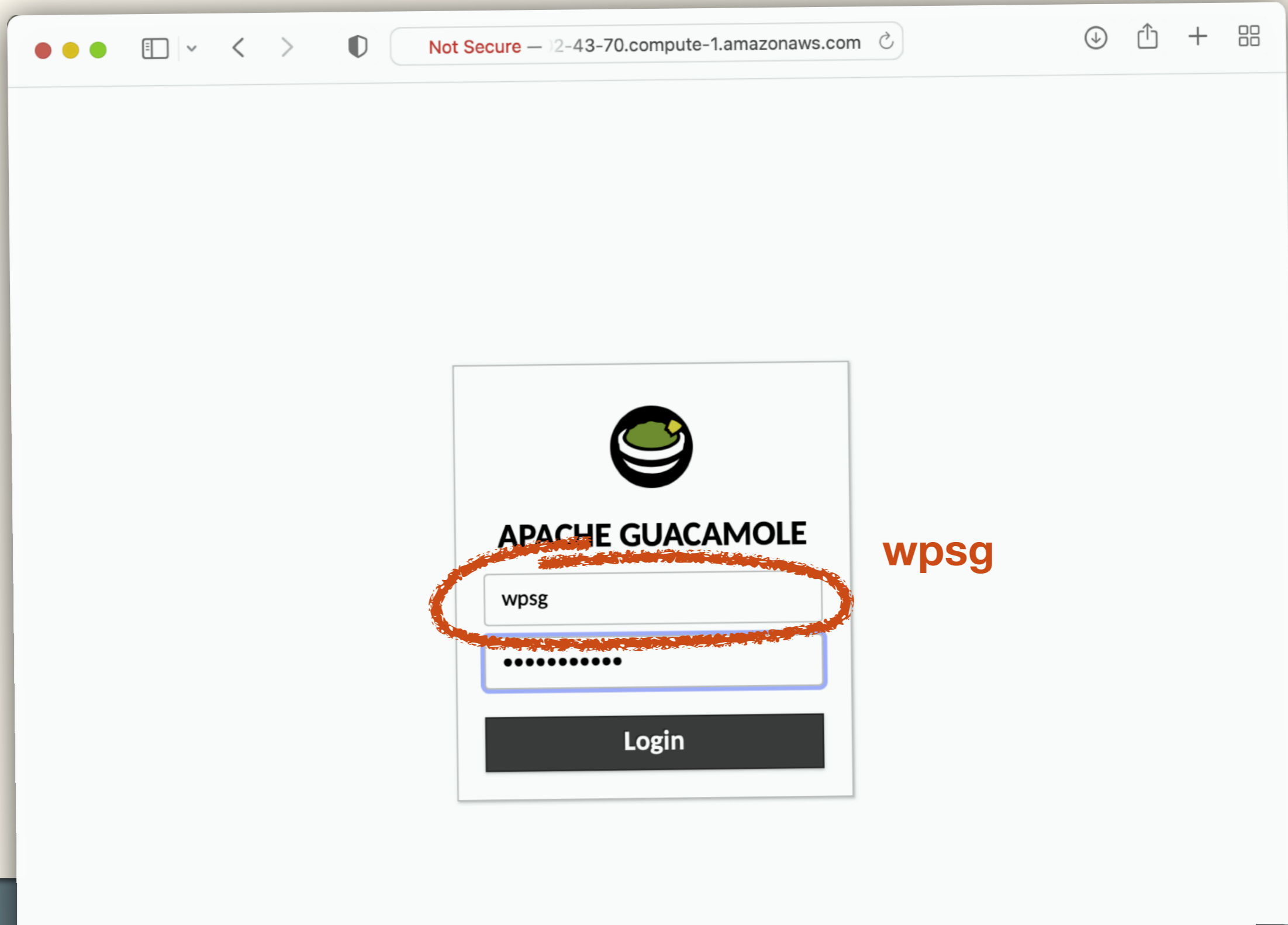


# 2. Guacamole

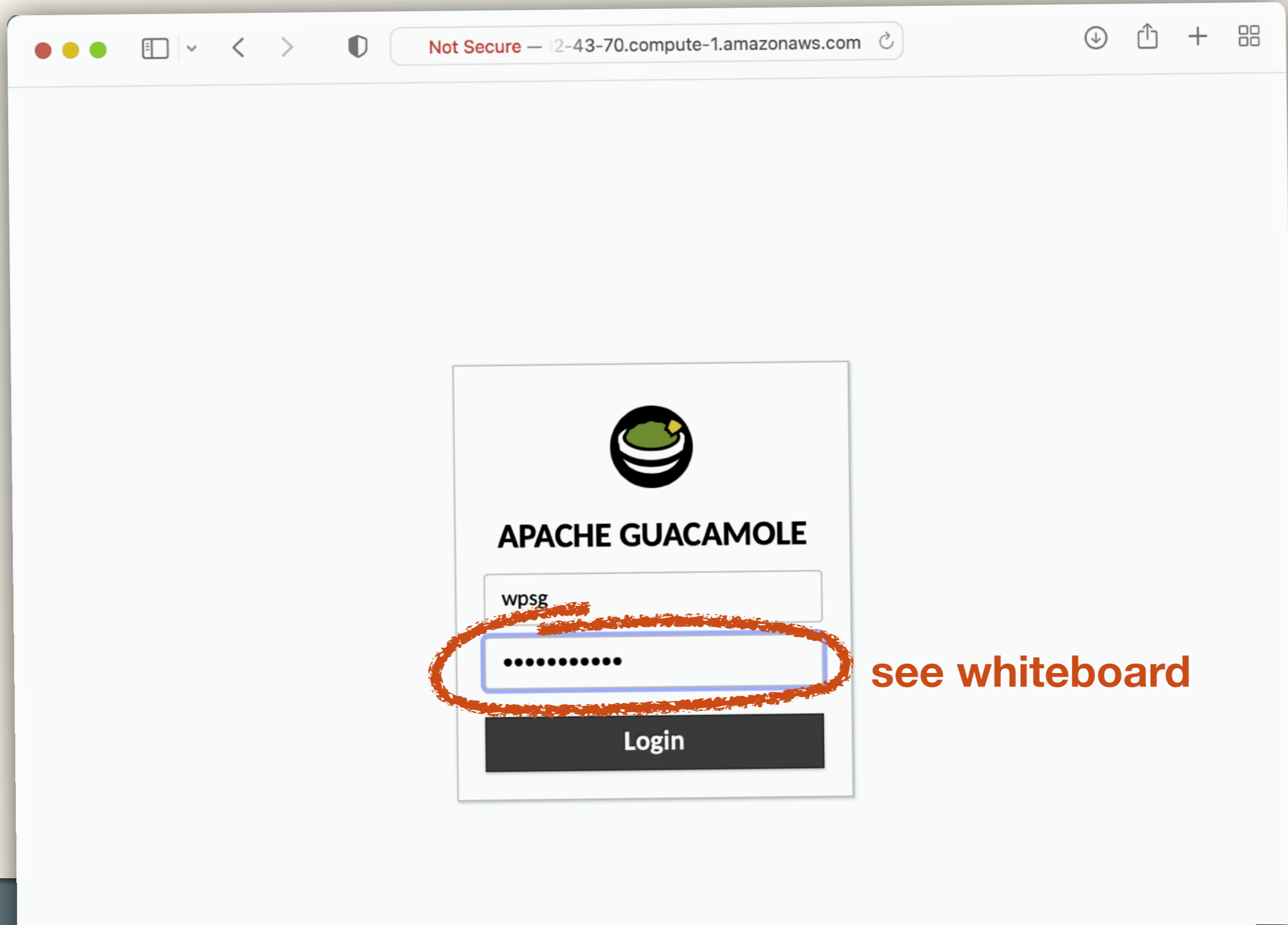
...amazonaws.com:8080/guacamole



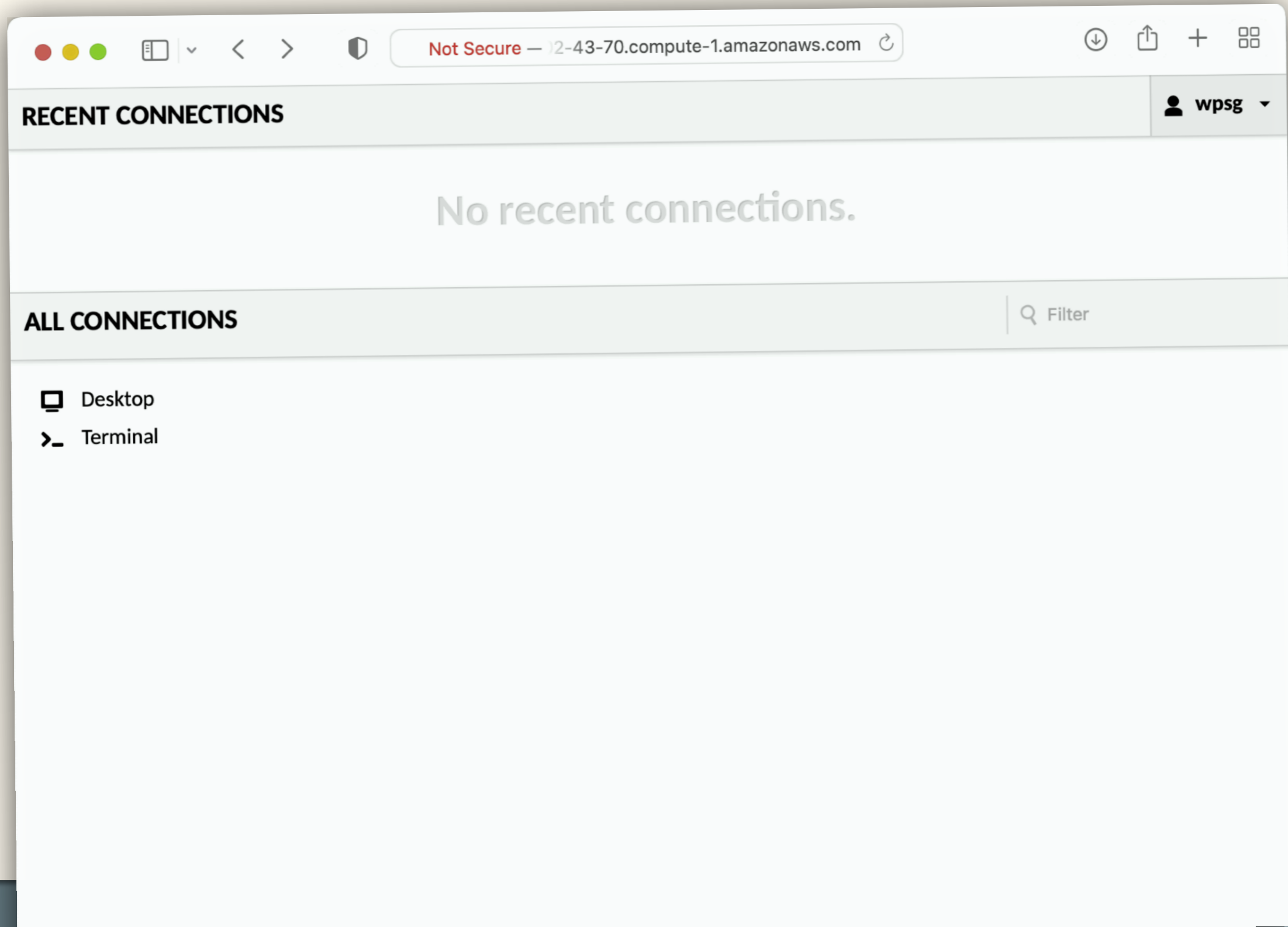
# 2. Guacamole



# 2. Guacamole

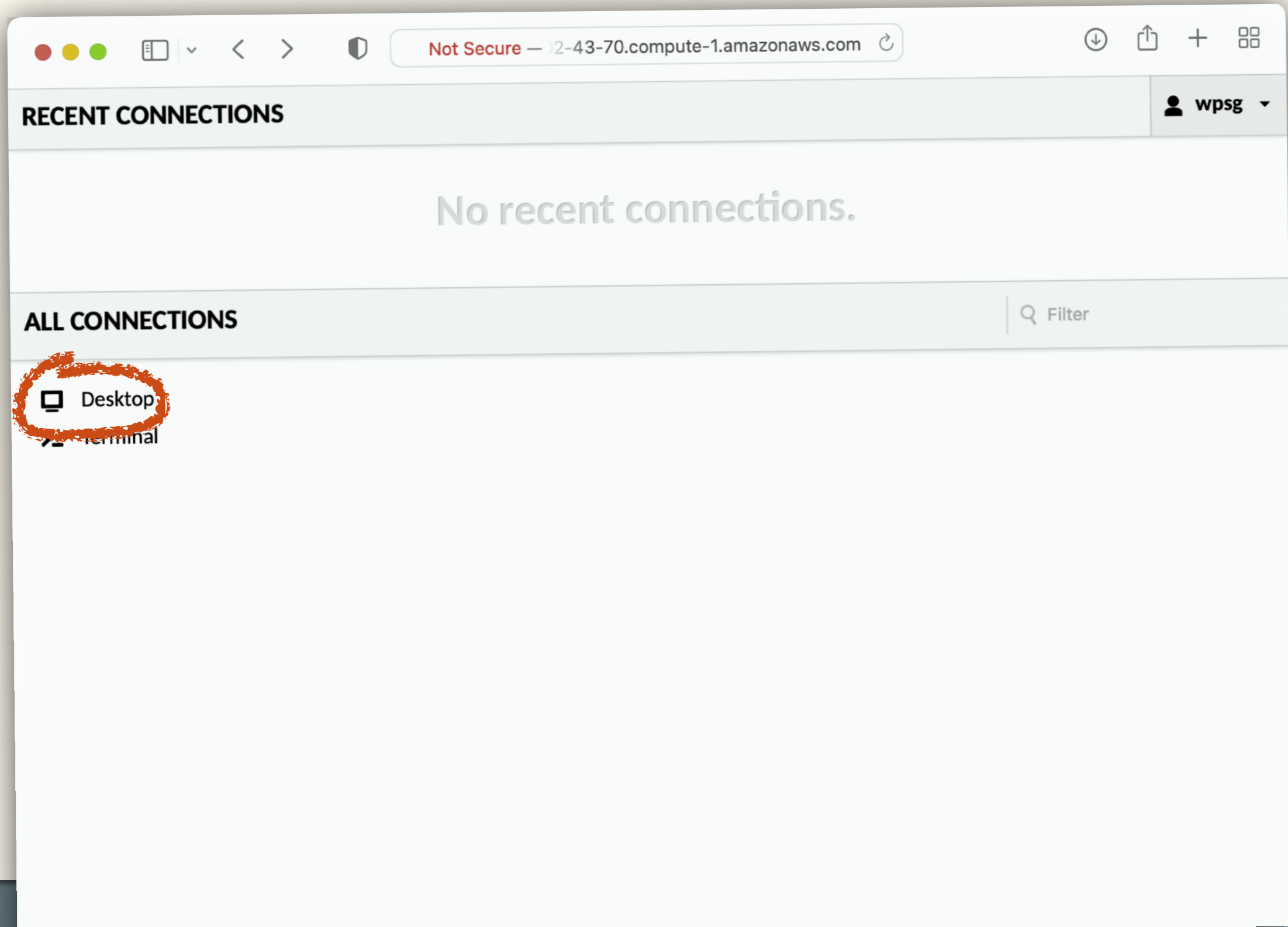


# 2. Guacamole

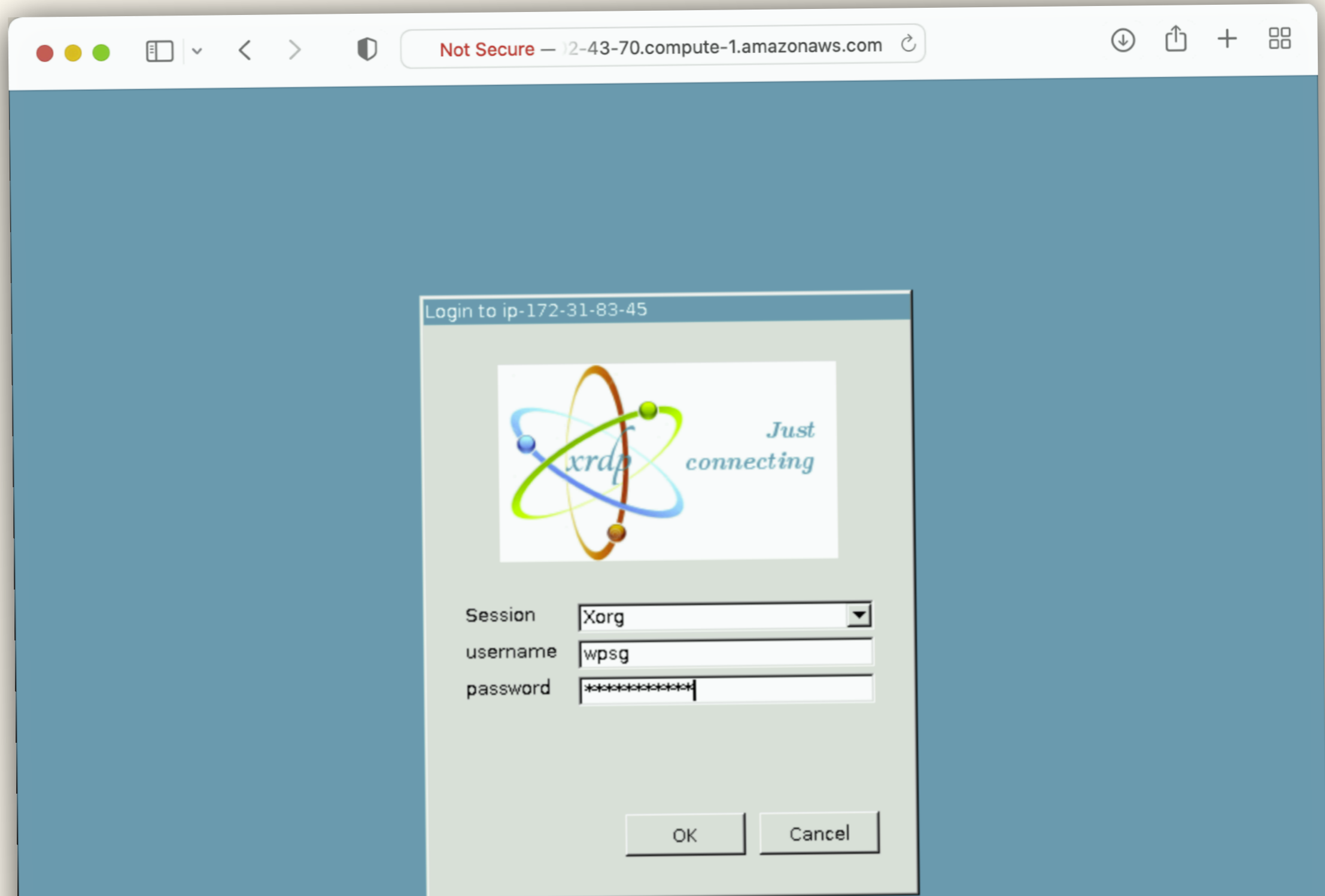




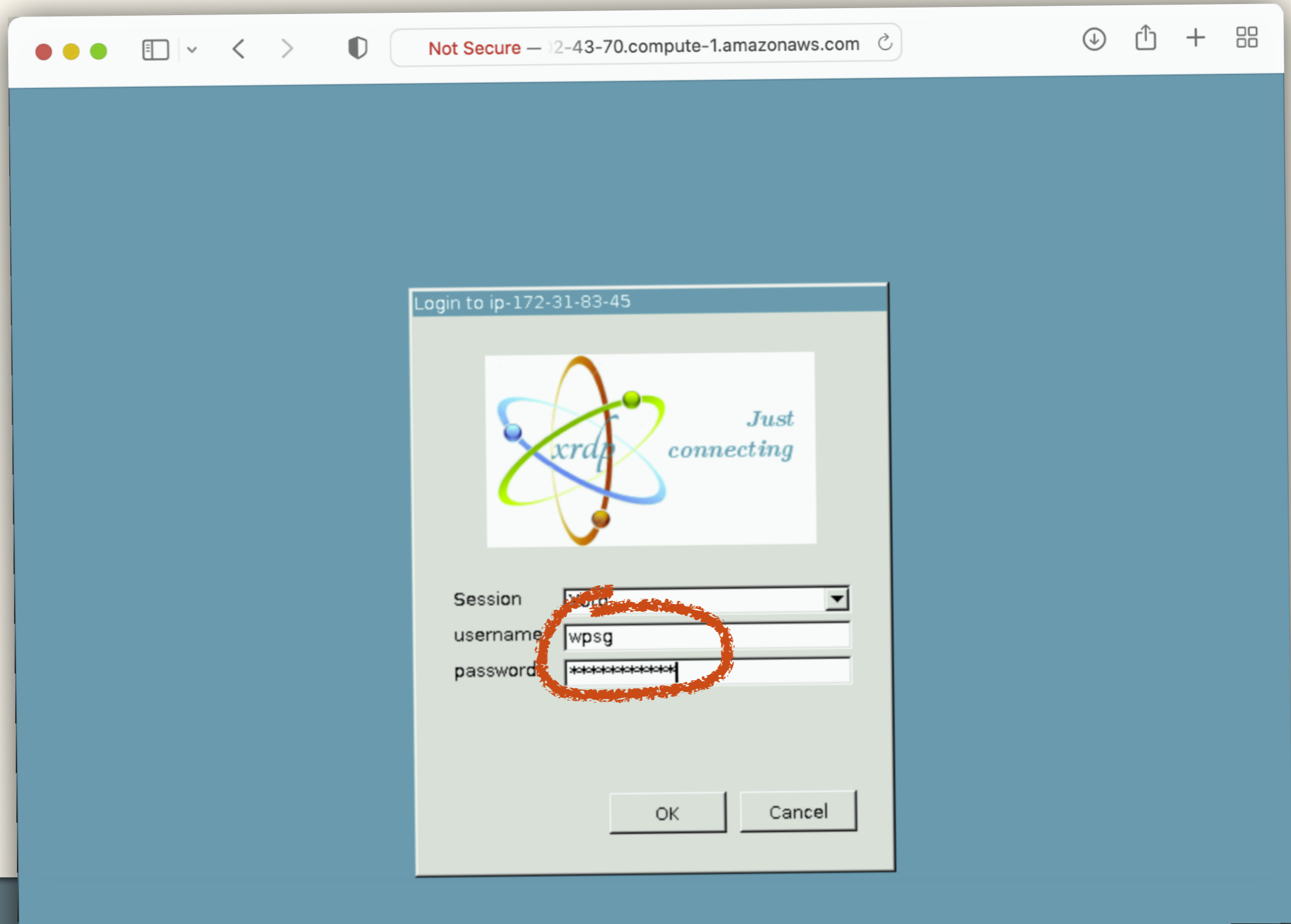
# 2. Guacamole



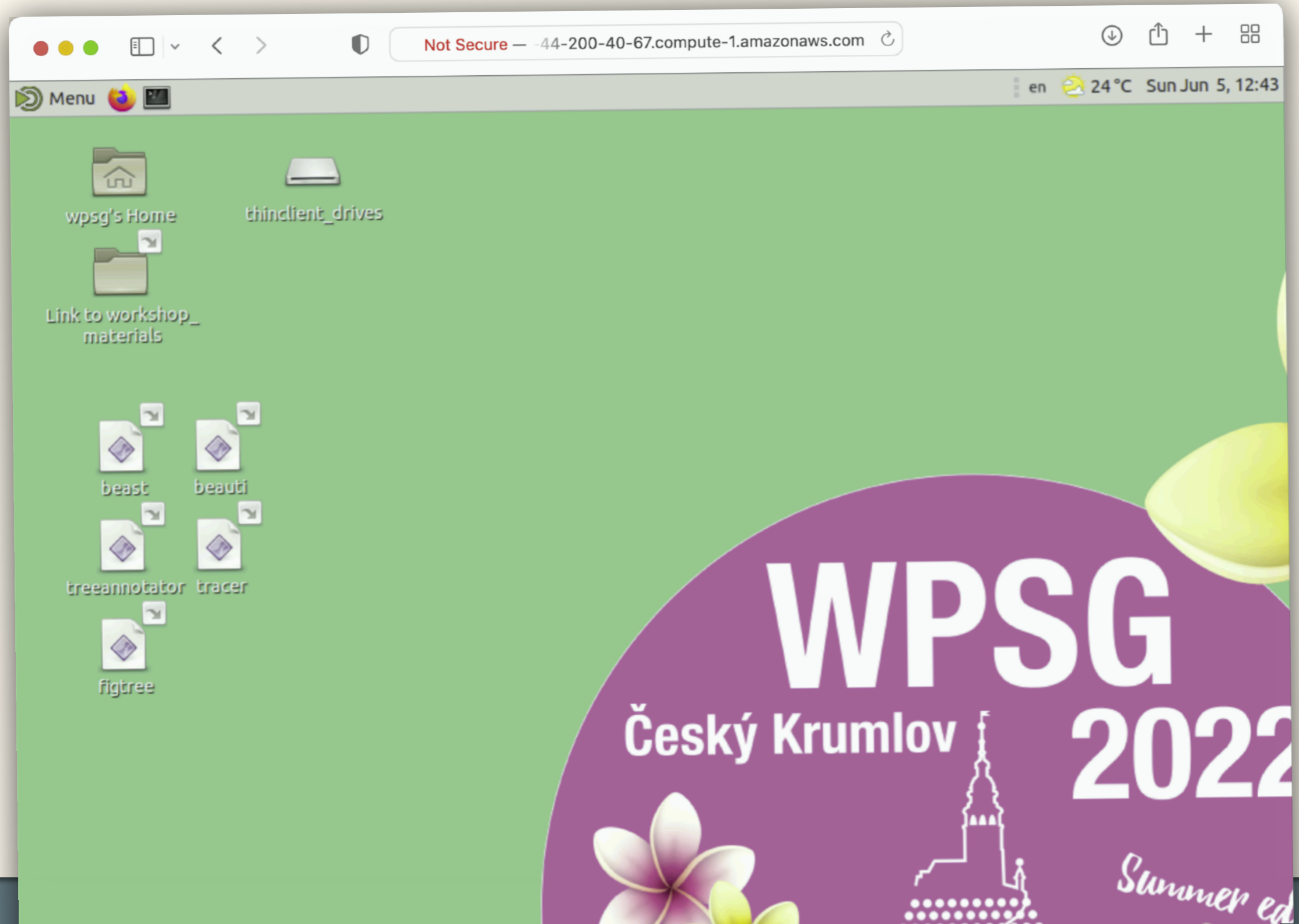
# 2. Guacamole



# 2. Guacamole



# 2. Guacamole



# 3. RStudio

# 3. RStudio

Not Secure — -44-200-40-67.compute-1.amazonaws.com

R Studio

### Sign in to RStudio

Username:  
wpsg

Password:  
●●●●●●●●

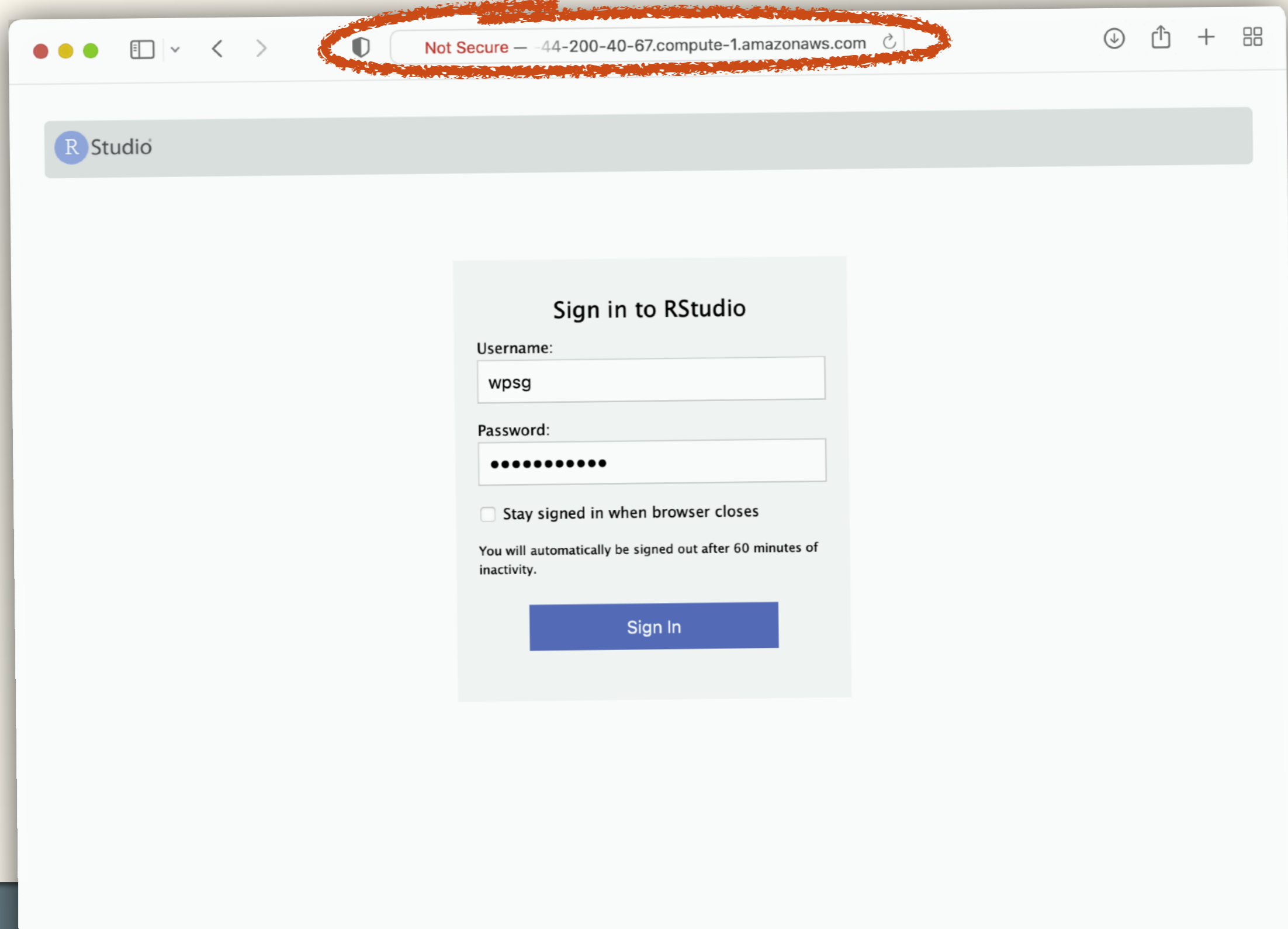
Stay signed in when browser closes

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

Sign In

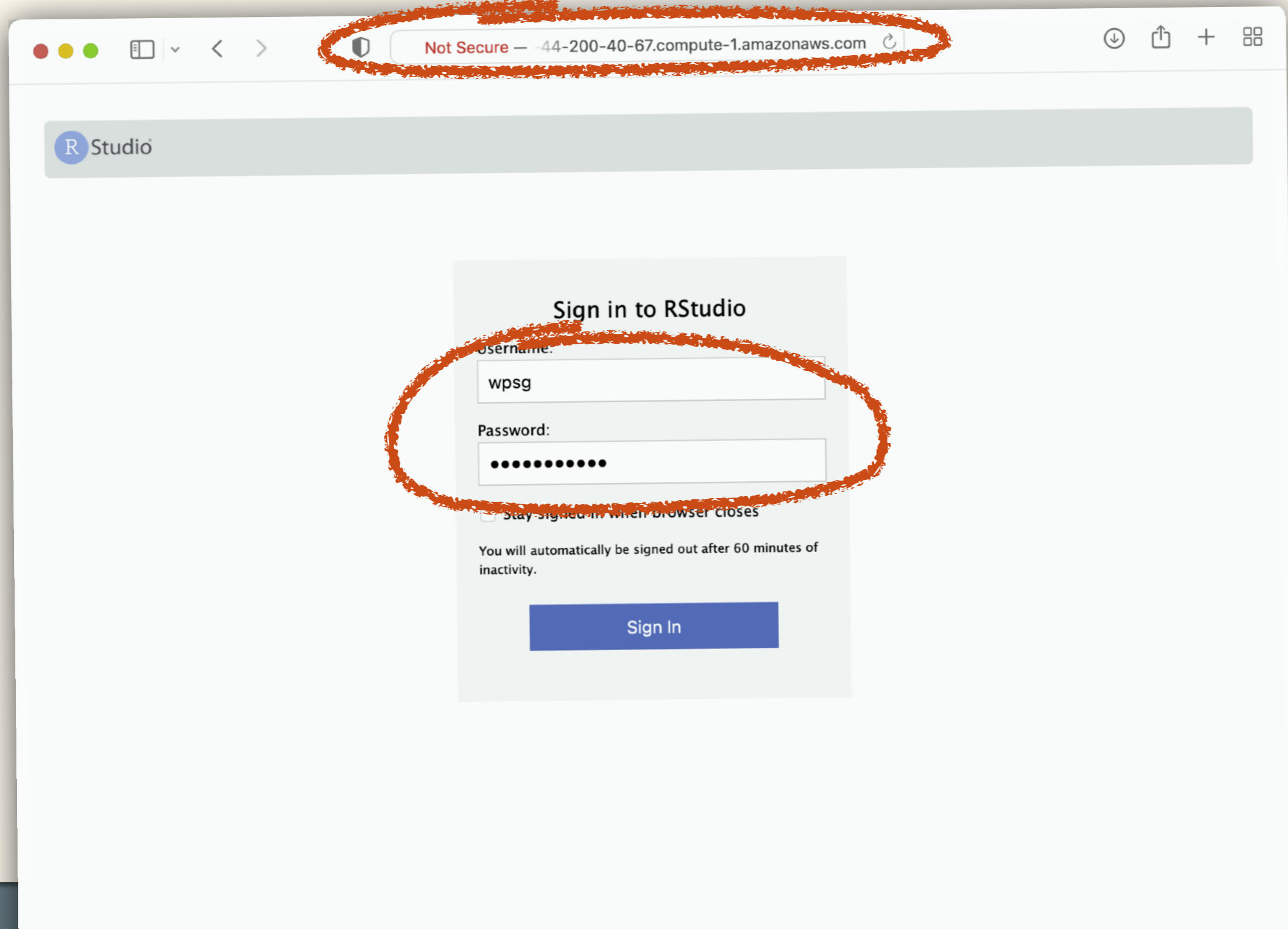
# 3. RStudio

...amazonaws.com:8787



# 3. RStudio

...amazonaws.com:8787





# 3. RStudio

The image shows a screenshot of the RStudio web interface accessed through a browser. The browser's address bar shows the URL `44-200-40-67.compute-1.amazonaws.com`. The RStudio interface includes a menu bar (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help), a toolbar with icons for file operations, and a main workspace divided into several panes:

- Console:** Displays the R version information and help text for R 4.2.0 (2022-04-22).
- Environment:** Shows the current environment is empty.
- Files:** A file explorer showing the home directory with various folders and files.

```
R version 4.2.0 (2022-04-22) -- "Vigorous Calisthenics"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

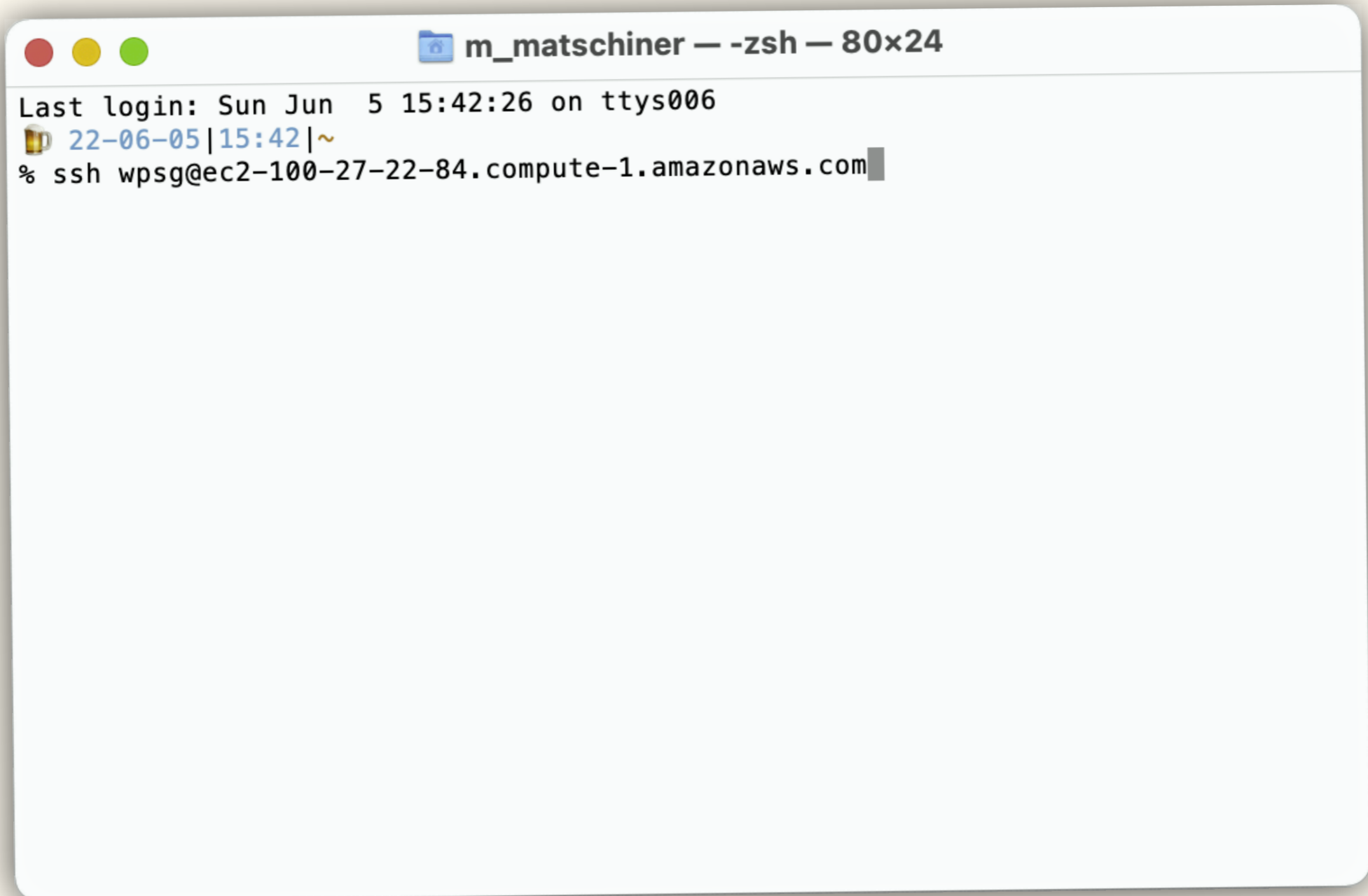
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

>
```

Name	Size	Modified
.r		
.Rhistory	286 B	Jun 5, 2022, 1:11 P
Desktop		
Documents		
Downloads		
igv		
miniconda3		
Miniconda3-py38_4.12.0-Linu...	72.6 MB	May 16, 2022, 10:0
Music		
Pictures		

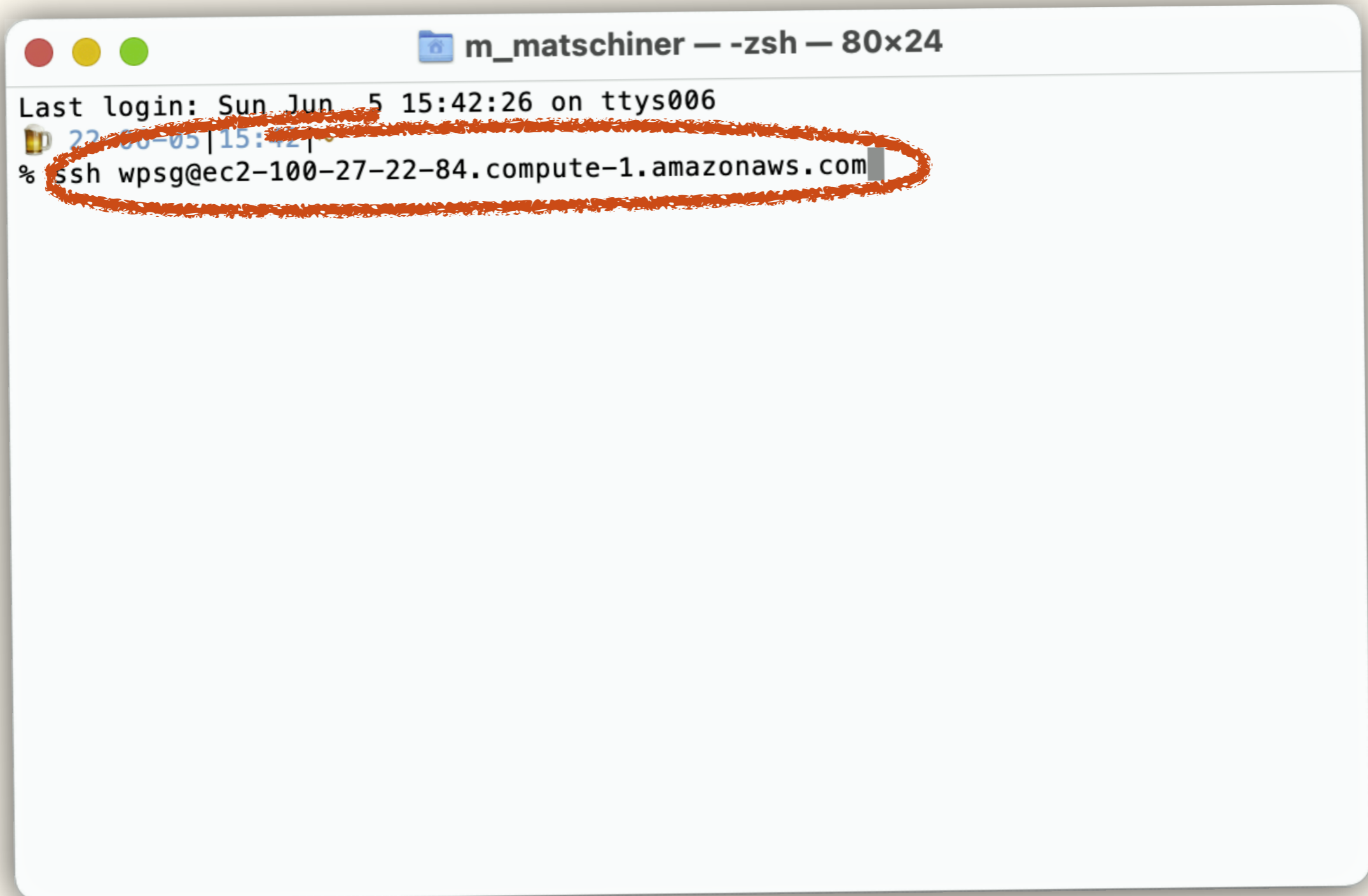
# 4. Jupyter Notebooks

# 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
```

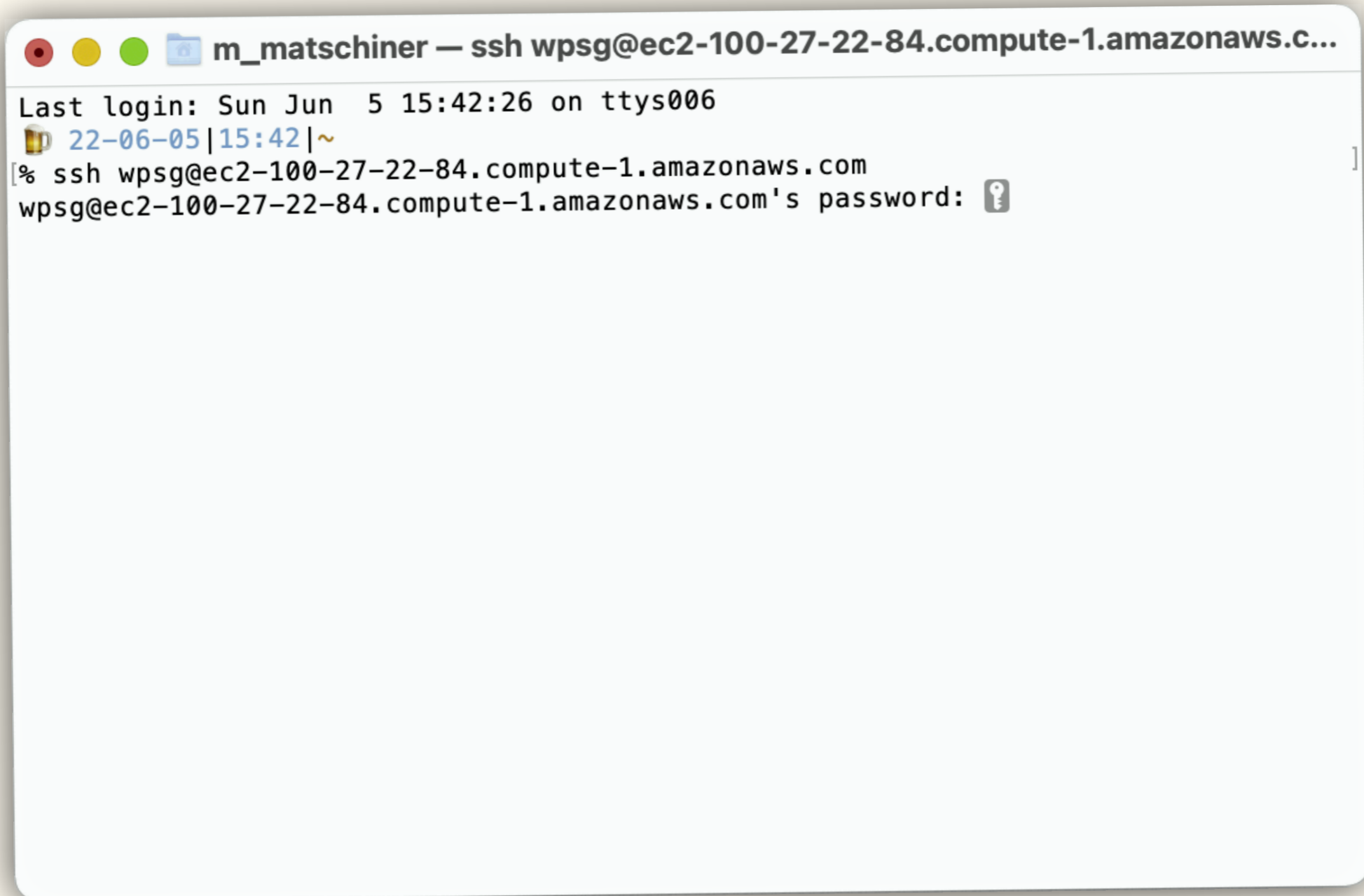
# 4. Jupyter Notebooks




```
m_matschiner — -zsh — 80x24
Last login: Sun Jun  5 15:42:26 on ttys006
22:58-05 | 15:42 |
% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com
```

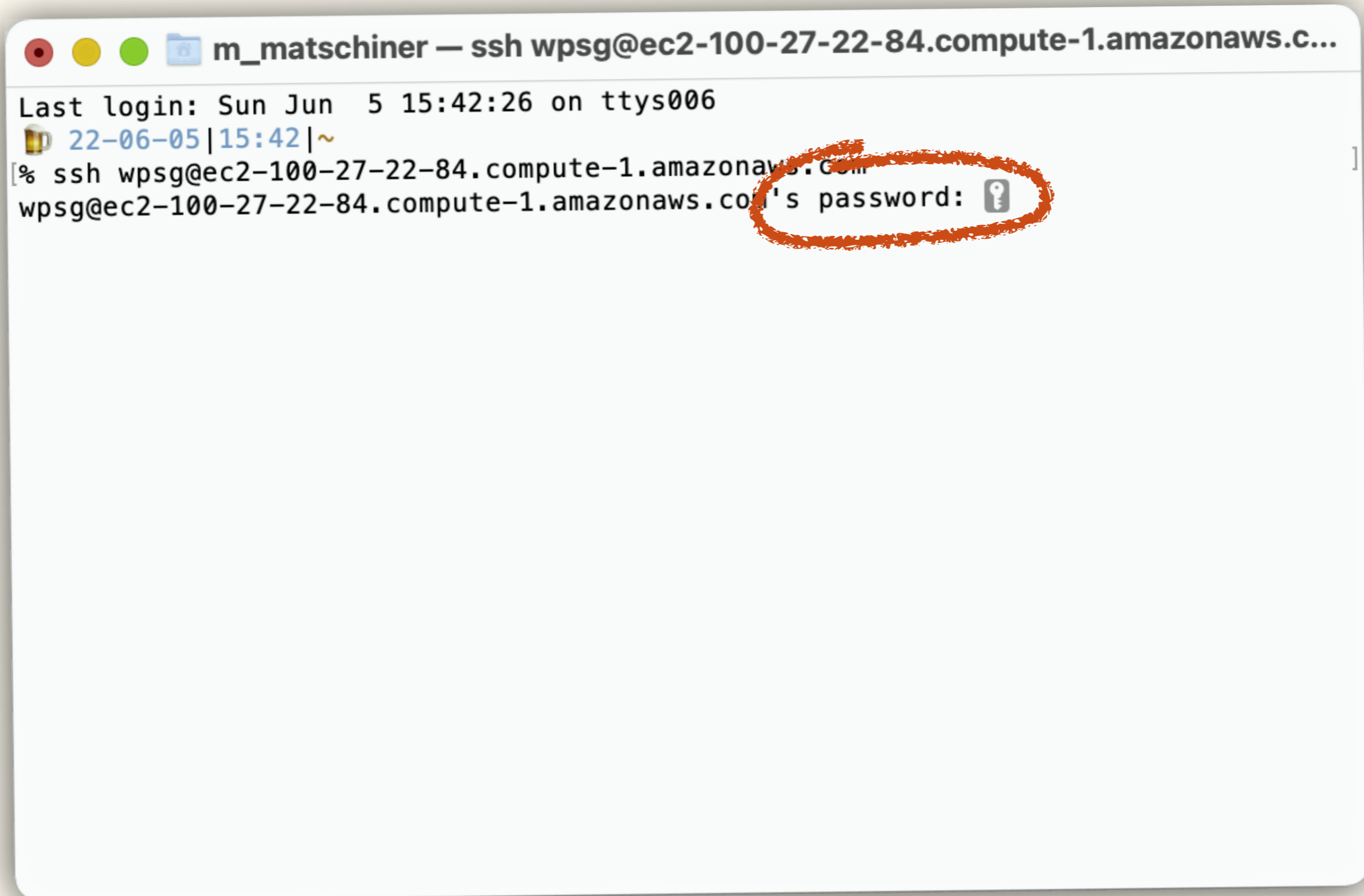
The image shows a terminal window with a title bar that reads "m\_matschiner — -zsh — 80x24". The terminal content includes the text "Last login: Sun Jun 5 15:42:26 on ttys006", a prompt "22:58-05 | 15:42 |", and a command "% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com". The command and its arguments are circled in orange.

# 4. Jupyter Notebooks

A terminal window with a title bar that reads "m\_matschiner — ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.c...". The terminal content shows a successful SSH login. The first line is "Last login: Sun Jun 5 15:42:26 on ttys006". The second line is a prompt "22-06-05 | 15:42 | ~" with a cursor. The third line is the command "% ssh wpsg@ec2-100-27-22-84.compute-1.amazonaws.com". The fourth line is the password prompt "wpsg@ec2-100-27-22-84.compute-1.amazonaws.com's password:" followed by a small icon of a key.

```
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



```
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.c...  
wpsg@ec2-100-27-22-84.compute-1.amazonaws.com's password: [key icon]
```

# 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  
  
* 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 90.173.209.215  
(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).

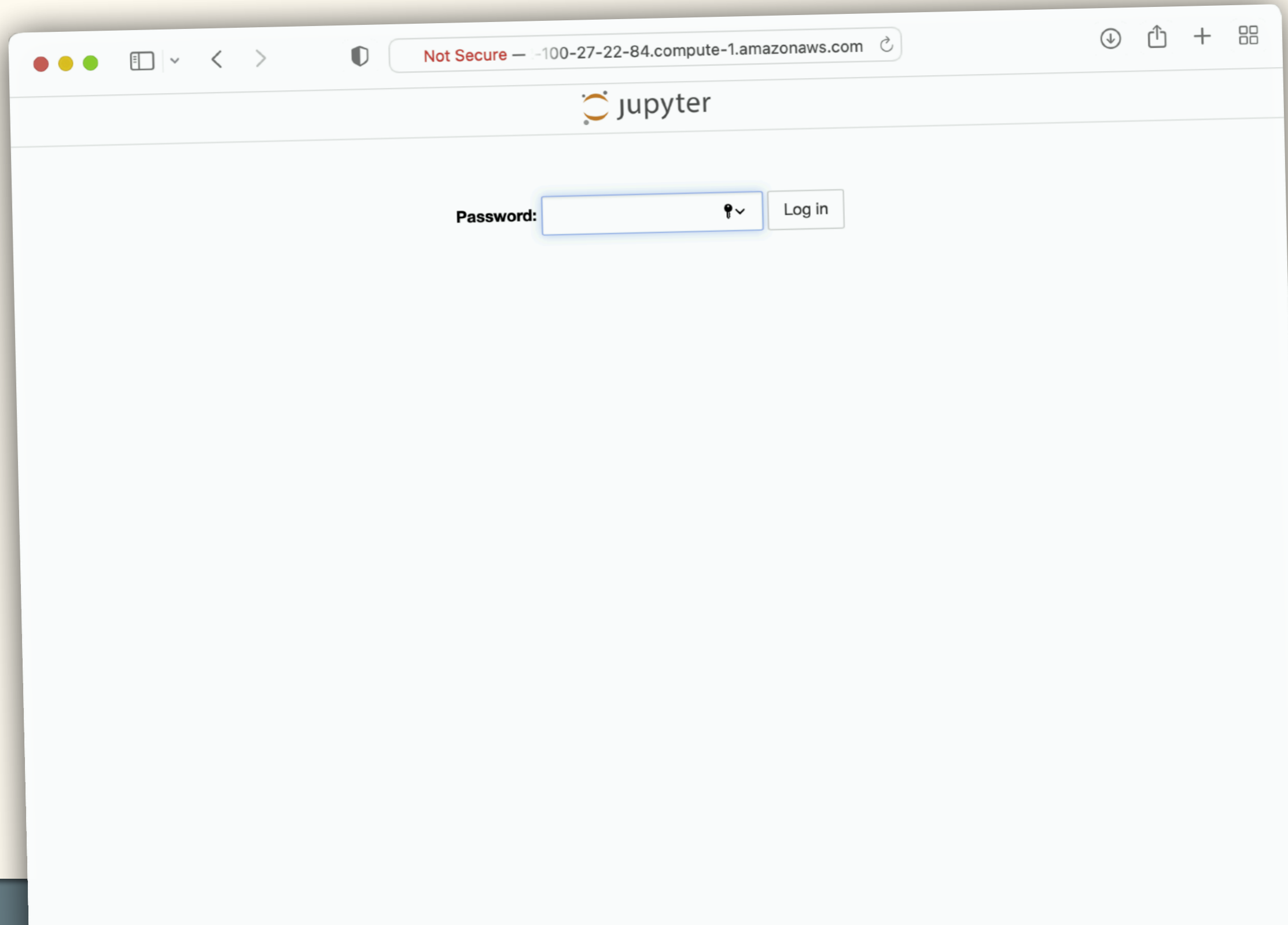
System information as of Sun Jun  5 15:43:27 CEST 2022

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

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

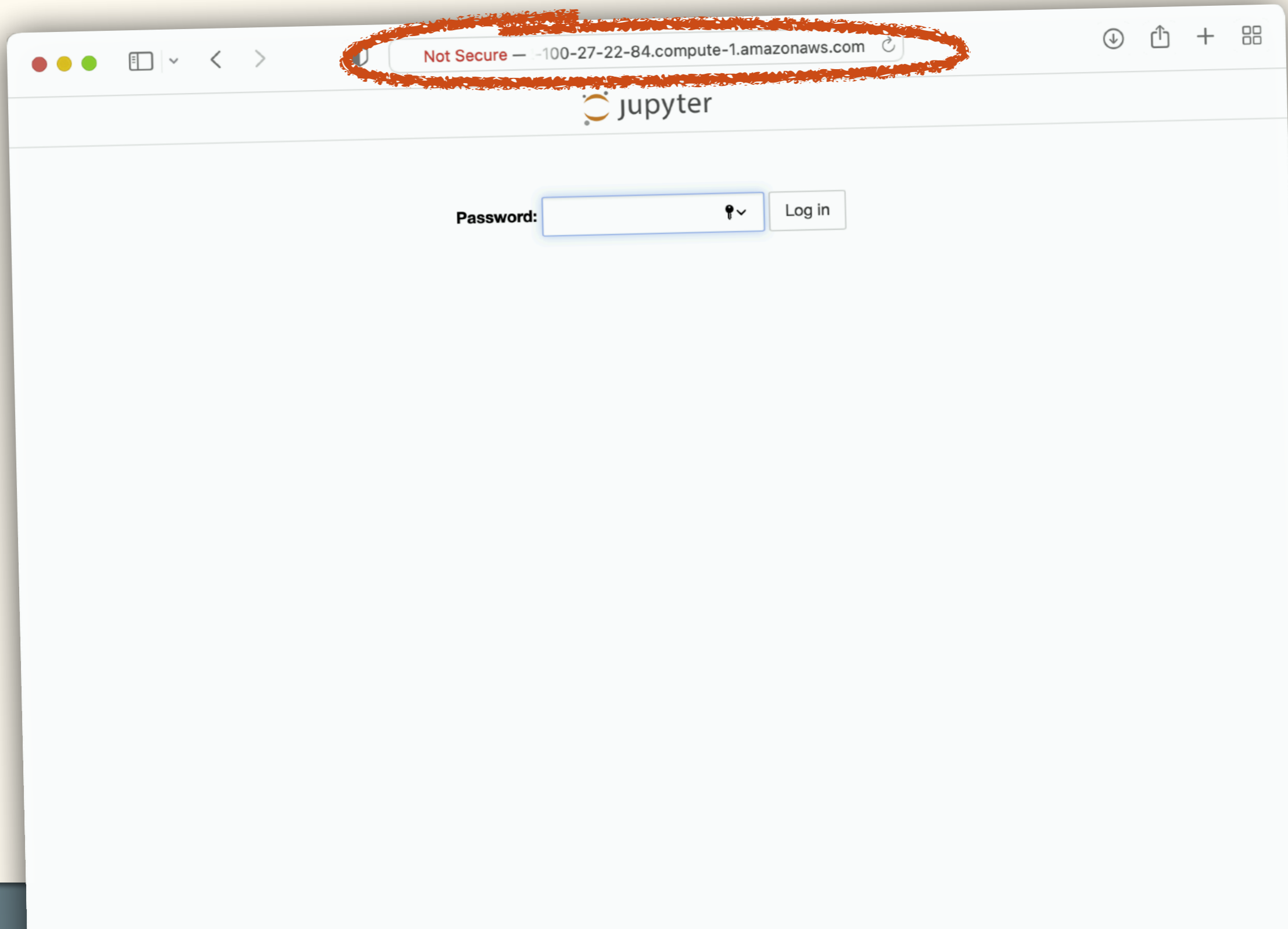
https://ubuntu.com/aws/pro
Last login: Sun Jun  5 15:23:42 2022 from 90.178.205.213
(base) wpsg@ip-172-31-86-137: [~]$ jupyter notebook --no-browser --port=8889
[I 15:43:50.408 NotebookApp] Serving notebooks from local directory: /home/wpsg
[I 15:43:50.408 NotebookApp] The Jupyter Notebook is running 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



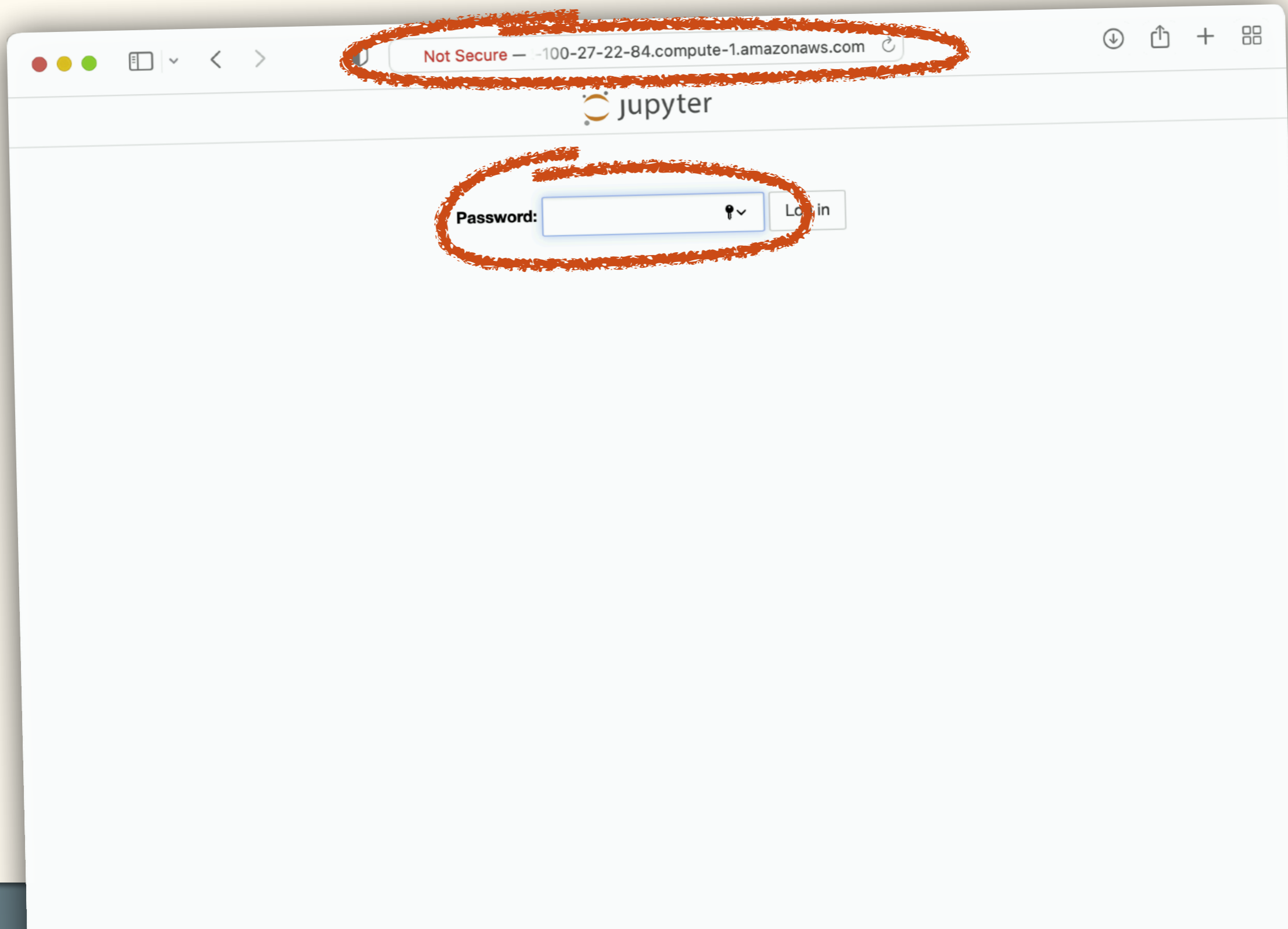
# 4. Jupyter Notebooks

...amazonaws.com:8889



# 4. Jupyter Notebooks

...amazonaws.com:8889

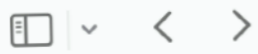
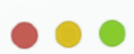


# 4. Jupyter Notebooks

The screenshot shows the Jupyter web interface in a browser window. The address bar indicates the URL is `-100-27-22-84.compute-1.amazonaws.com`. The page title is "jupyter". There are "Quit" and "Logout" buttons in the top right. Below the navigation tabs (Files, Running, Clusters), there are "Upload", "New", and a refresh icon. A message says "Select items to perform actions on them." Below this is a table of files and folders.

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

**Activity**



Not Secure — evomics.org



# 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 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
5 Jun	Sunday	4p – 6p	<a href="#">Workshop Team</a>	<a href="#">UNIX primer (optional)</a>	Prelate
		7p – 10p	<a href="#">Everyone</a>	Reception dinner	Hotel Zlatý Anděl
6 Jun	Monday	9a – 10:30a	<a href="#">Workshop Team</a>	Workshop introduction	Egon Schiele
		10:30a – 12p	<a href="#">Michael Matschiner</a>	Likelihood and probability	Egon Schiele
		12p – 12:15p	<a href="#">Everyone</a>	Group photo	Outside Prelate
		2p – 3:30p	<a href="#">Workshop Team</a>	<a href="#">AMI introduction</a>	Prelate
		3:30p – 5p	<a href="#">Workshop Team</a>	Probability activity	Prelate
		7p – 10p	<a href="#">Everyone</a>	Participant introduction	Prelate
7 Jun	Tuesday	9a – 12p	<a href="#">Rasmus Nielsen</a>	Population genomics	Egon Schiele
		2p – 5p	<a href="#">Rasmus Nielsen</a> and <a href="#">Thorfinn</a>	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  
[Jan Stefka](#), University of South Bohemia České Budějovice, Czech Republic  
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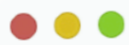
### LINKS

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- [Map of important locations in Český Krumlov](#)

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		2p – 3:30p	<a href="#">Workshop Team</a>	<a href="#">AMI introduction</a>	Prelate
		3:30p – 5p	<a href="#">Workshop Team</a>	<a href="#">Community activity</a>	Prelate
		7p – 10p	<a href="#">Everyone</a>	Participant introduction	Prelate
7 Jun	Tuesday	9a – 12p	<a href="#">Rasmus Nielsen</a>	Population genomics	Egon Schiele
		2p – 5p	<a href="#">Rasmus Nielsen</a> and <a href="#">Thorfinn</a>	ANGSD activity	Prelate



evomics.org



# EVOLUTION AND GENOMICS

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## 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