

Recorded Steps

This file contains all the steps and information that was recorded to help you describe the recorded steps to others.

Before sharing this file, you should verify the following:

- The steps below accurately describe the recording.
- There is no information below or on any screenshots that you do not want others to see.

Passwords or any other text you typed were not recorded, except for function and shortcut keys that you used.

There were errors during recording. Some information may be missing.

You can do the following:

- Review the recorded steps
 - Review the recorded steps as a slide show
 - Review the additional details
-

Steps

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Step 1: (2/21/2022 9:21:36 PM) User mouse wheel down in "Dashboard | EC2

Management Console - Google Chrome"

No screenshots were saved for this step.

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Step 2: (2/21/2022 9:22:08 PM) User left click in "Launch instance wizard | EC2

Management Console - Google Chrome"

No screenshots were saved for this step.

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Step 3: (2/21/2022 9:22:18 PM) User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"

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Step 4: (2/21/2022 9:22:30 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 5: (2/21/2022 9:22:35 PM) User keyboard input on "Launch instance wizard | EC2 Management Console - Google Chrome (pane)" in "Launch instance wizard | EC2 Management Console - Google Chrome" [...]
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Step 6: (2/21/2022 9:22:52 PM) User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 7: (2/21/2022 9:23:00 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 8: (2/21/2022 9:23:07 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 9: (2/21/2022 9:23:13 PM) User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 10: (2/21/2022 9:23:13 PM) User mouse wheel up in "Launch instance wizard | EC2 Management Console - Google Chrome"

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Step 11: (2/21/2022 9:23:16 PM) User mouse wheel down on "Launch instance wizard | EC2 Management Console (document)" in "Launch instance wizard | EC2 Management Console - Google Chrome"

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Step 12: (2/21/2022 9:23:27 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

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Step 13: (2/21/2022 9:23:29 PM) User left clicked

No screenshots were saved for this step.

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Step 14: (2/21/2022 9:23:38 PM) User left click on "Move this notification to action center (button)" in "New notification"

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Step 15: (2/21/2022 9:23:39 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

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No screenshots were saved for this step.

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Step 17: (2/21/2022 9:23:59 PM) User left clicked
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Step 18: (2/21/2022 9:24:02 PM) User left click on "Launch instance wizard | EC2 Management Console (document)" in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 19: (2/21/2022 9:24:03 PM) User left clicked
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Step 20: (2/21/2022 9:24:07 PM) User keyboard input on "Launch instance wizard | EC2 Management Console - Google Chrome (pane)" in "Launch instance wizard | EC2 Management Console - Google Chrome" [...]
No screenshots were saved for this step.

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Step 21: (2/21/2022 9:24:13 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"
No screenshots were saved for this step.

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Step 22: (2/21/2022 9:24:16 PM) User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 23: (2/21/2022 9:24:19 PM) User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"
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Step 24: (2/21/2022 9:24:29 PM) User left click in "Instances | EC2 Management Console - Google Chrome"

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Step 25: (2/21/2022 9:24:40 PM) User left click in "Instances | EC2 Management Console - Google Chrome"

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Step 26: (2/21/2022 9:24:44 PM) User left click in "Instances | EC2 Management Console - Google Chrome"

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Step 27: (2/21/2022 9:24:51 PM) User mouse wheel down in "Instance details | EC2 Management Console - Google Chrome"

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Step 28: (2/21/2022 9:24:53 PM) User mouse wheel up in "Instance details | EC2 Management Console - Google Chrome"

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Step 29: (2/21/2022 9:25:23 PM) User left click in "Instance details | EC2 Management Console - Google Chrome"

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Step 30: (2/21/2022 9:25:35 PM) User left click on "Search Google or type a URL (combo box)" in "New Tab - Google Chrome"

No screenshots were saved for this step.

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Step 31: (2/21/2022 9:25:37 PM) User keyboard input on "New Tab - Google Chrome (pane)" in "New Tab - Google Chrome" [... Enter]
No screenshots were saved for this step.

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Step 32: (2/21/2022 9:25:47 PM) User left click on "ros neotic - Google Search (document)" in "ros neotic - Google Search - Google Chrome"
No screenshots were saved for this step.

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Step 33: (2/21/2022 9:25:52 PM) User mouse wheel down on "noetic - ROS Wiki (document)" in "noetic - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 34: (2/21/2022 9:25:59 PM) User left click on "noetic - ROS Wiki (document)" in "noetic - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 35: (2/21/2022 9:26:03 PM) User mouse wheel down on "ROS Noetic Ninjemys Released May, 2020 Latest LTS, supported until May, 2025 Recommended for Ubuntu 20.04 Noetic Ninjemys (item)" in "ROS/Installation - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 36: (2/21/2022 9:26:07 PM) User left click on "ROS/Installation - ROS Wiki (document)" in "ROS/Installation - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 37: (2/21/2022 9:26:10 PM) User mouse wheel down on "noetic/Installation - ROS Wiki (document)" in "noetic/Installation - ROS Wiki - Google Chrome"

No screenshots were saved for this step.

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Step 38: (2/21/2022 9:26:27 PM) User mouse wheel up in "Instance details | EC2 Management Console - Google Chrome"

No screenshots were saved for this step.

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Step 39: (2/21/2022 9:26:48 PM) User left click in "Instances | EC2 Management Console - Google Chrome"

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Step 40: (2/21/2022 9:26:52 PM) User mouse wheel down in "Connect to instance | EC2 Management Console - Google Chrome"

No screenshots were saved for this step.

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Step 41: (2/21/2022 9:27:10 PM) User mouse drag start in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

No screenshots were saved for this step.

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Step 42: (2/21/2022 9:27:11 PM) User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

No screenshots were saved for this step.

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Step 43: (2/21/2022 9:27:12 PM) User right click on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

No screenshots were saved for this step.

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Step 44: (2/21/2022 9:27:23 PM) User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Enter]
No screenshots were saved for this step.

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Step 45: (2/21/2022 9:27:36 PM) User mouse drag start on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 46: (2/21/2022 9:27:39 PM) User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 47: (2/21/2022 9:27:46 PM) User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Ctrl-V Enter Ctrl-V Enter]
No screenshots were saved for this step.

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Step 48: (2/21/2022 9:28:55 PM) User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"
No screenshots were saved for this step.

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Step 49: (2/21/2022 9:29:09 PM) User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 50: (2/21/2022 9:29:14 PM) User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
No screenshots were saved for this step.

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Step 51: (2/21/2022 9:29:19 PM) User left click on "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome (pane)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

No screenshots were saved for this step.

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Step 52: (2/21/2022 9:29:22 PM) User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Ctrl-V Enter ... Enter]
No screenshots were saved for this step.

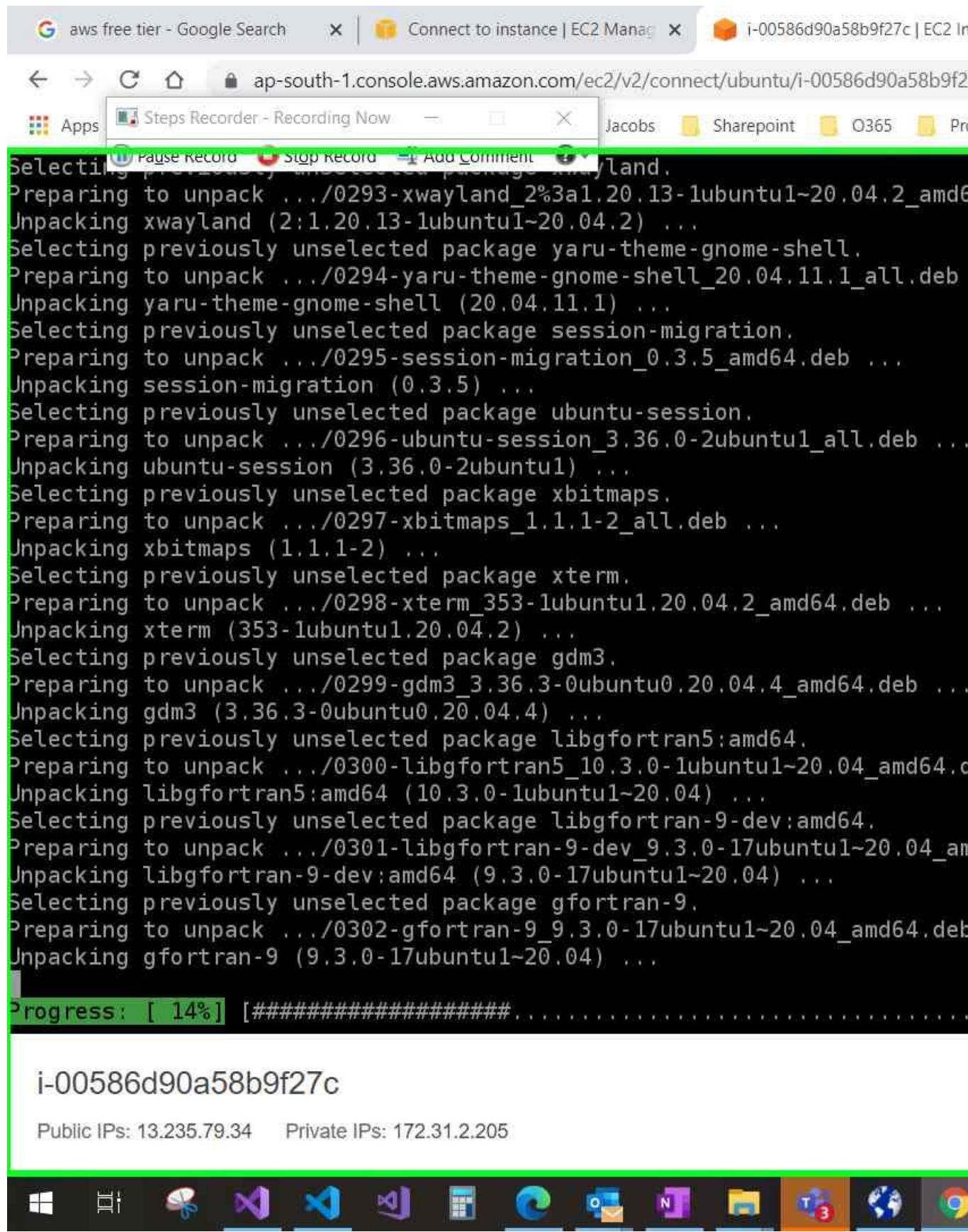
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Step 53: (2/21/2022 9:34:25 PM) User left click on "Move this notification to action center (button)" in "New notification"

No screenshots were saved for this step.

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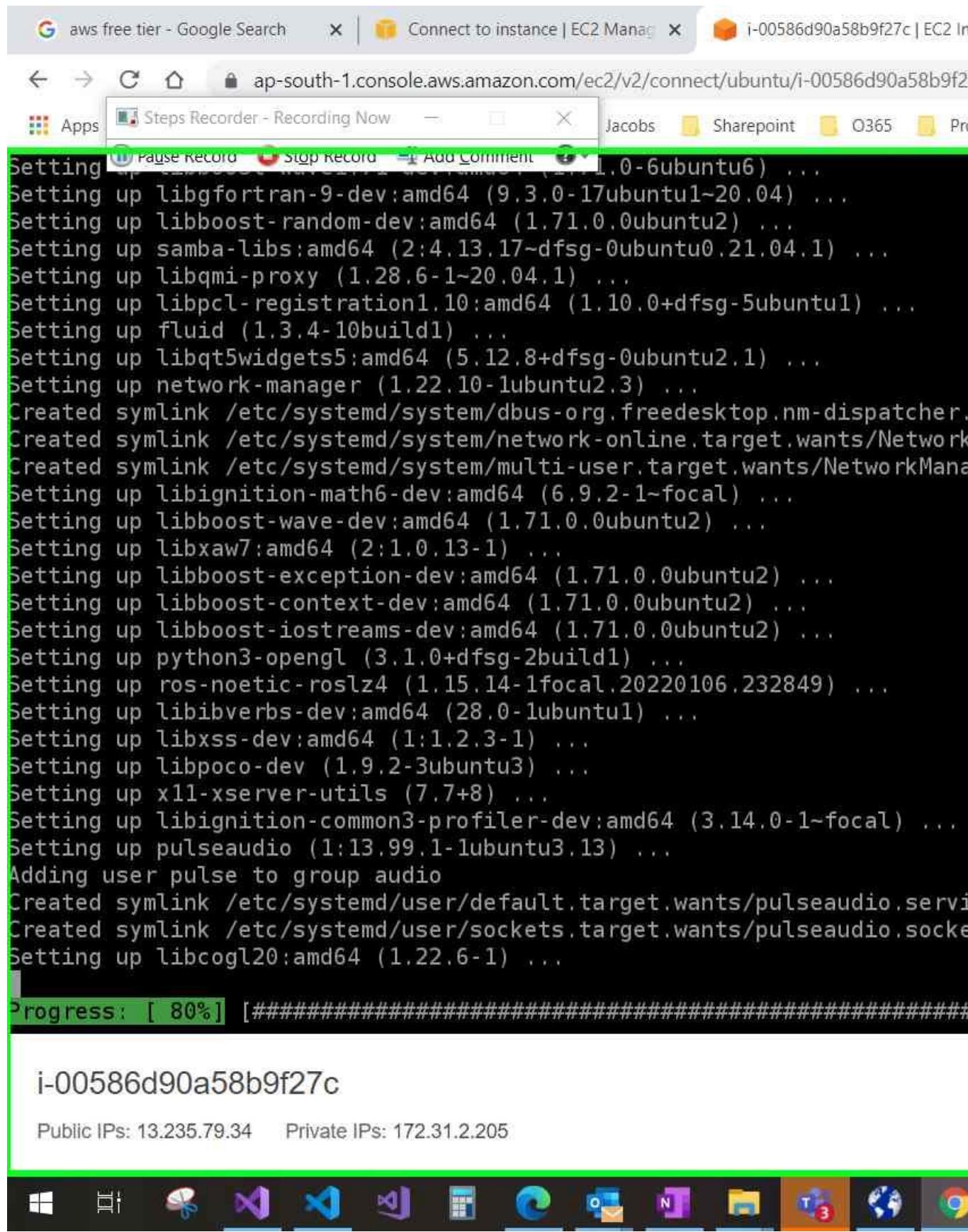
Step 54: (2/21/2022 9:34:35 PM) User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"



Step 54 screenshot.

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Step 55: (2/21/2022 9:39:00 PM) User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"



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Step 56: (2/21/2022 9:41:19 PM) User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.1) ...
aspell-autobuildhash: processing: en [en-common].
aspell-autobuildhash: processing: en [en-variant_0].
aspell-autobuildhash: processing: en [en-variant_1].
aspell-autobuildhash: processing: en [en-variant_2].
aspell-autobuildhash: processing: en [en-w_accents-only].
aspell-autobuildhash: processing: en [en-wo_accents-only].
aspell-autobuildhash: processing: en [en_AU-variant_0].
aspell-autobuildhash: processing: en [en_AU-variant_1].
aspell-autobuildhash: processing: en [en_AU-w_accents-only].
aspell-autobuildhash: processing: en [en_AU-wo_accents-only].
aspell-autobuildhash: processing: en [en_CA-variant_0].
aspell-autobuildhash: processing: en [en_CA-variant_1].
aspell-autobuildhash: processing: en [en_CA-w_accents-only].
aspell-autobuildhash: processing: en [en_CA-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-variant_0].
aspell-autobuildhash: processing: en [en_GB-variant_1].
aspell-autobuildhash: processing: en [en_US-w_accents-only].
aspell-autobuildhash: processing: en [en_US-wo_accents-only].
Processing triggers for rygel (0.38.3-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for sgml-base (1.29.1) ...
ubuntu@ip-172-31-2-205:~\$ █

i-00586d90a58b9f27c

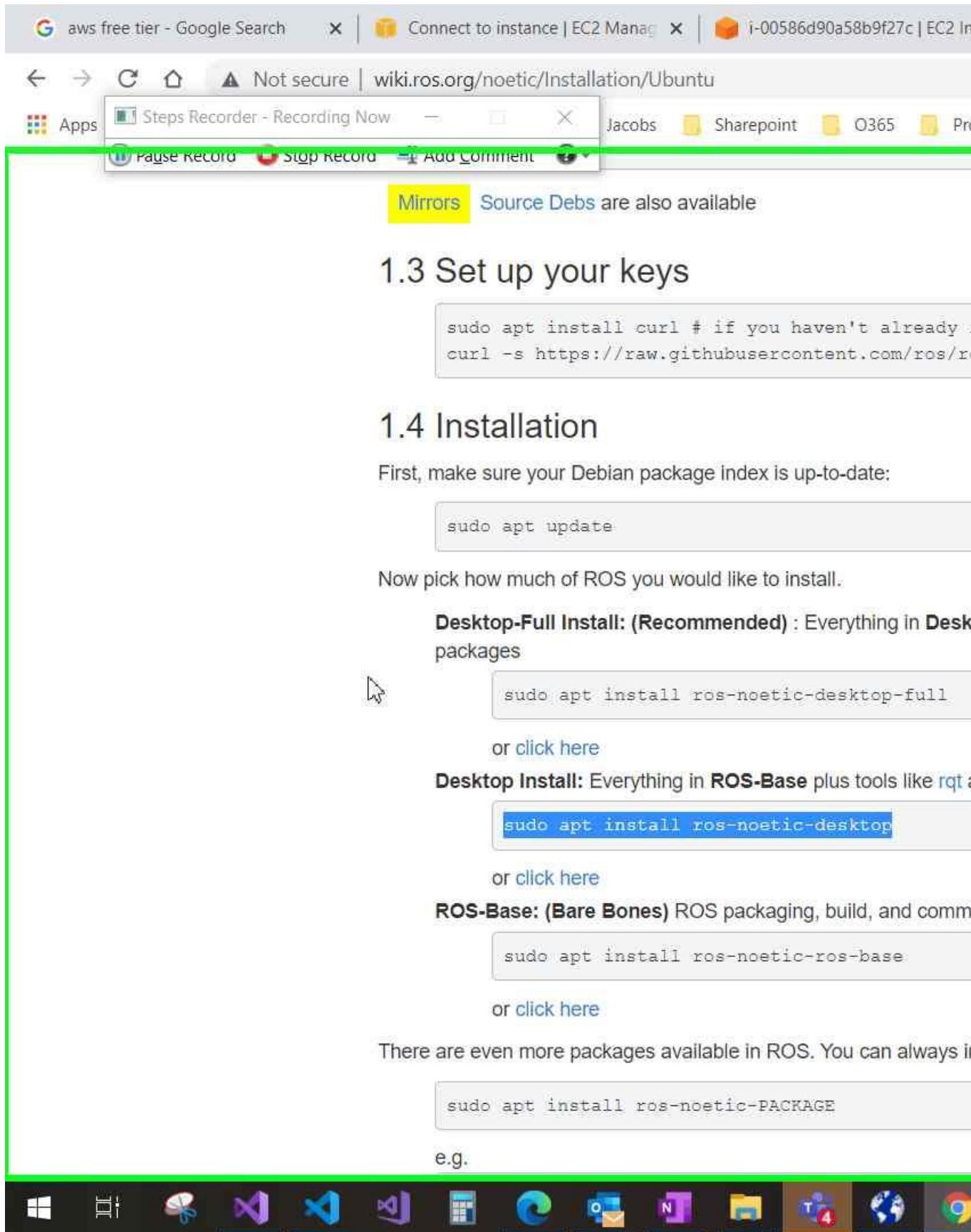
Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



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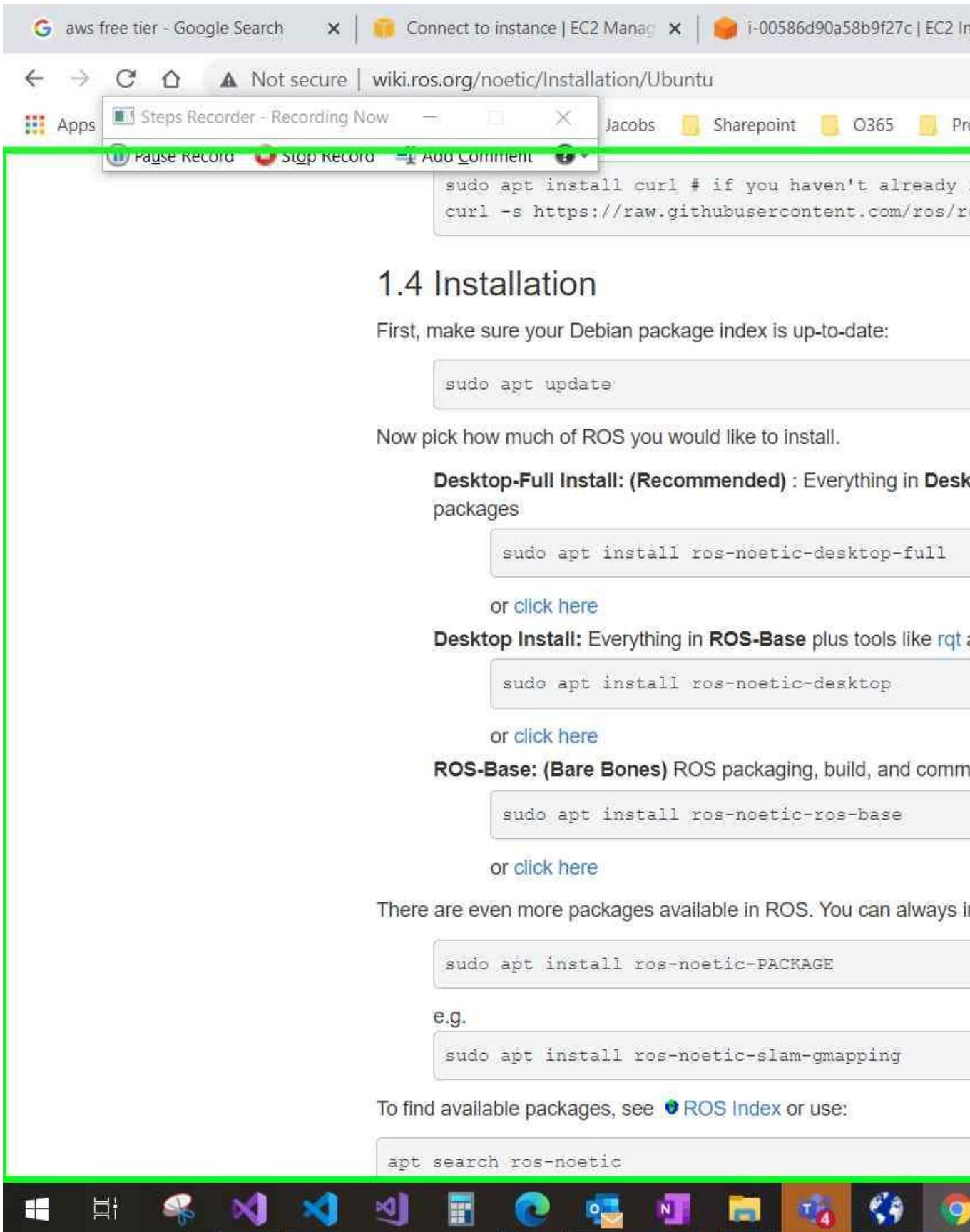
Step 57: (2/21/2022 9:41:38 PM) User left click on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 57 screenshot.

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Step 58: (2/21/2022 9:41:40 PM) User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 58 screenshot.

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Step 59: (2/21/2022 9:42:01 PM) User mouse wheel up on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌘ ⌘ Not secure | wiki.ros.org/noetic/Installation/Ubuntu

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Pause Record Stop Record Add Comment or click here

Desktop Install: Everything in **ROS-Base** plus tools like rqt a

```
sudo apt install ros-noetic-desktop
```

or click here

ROS-Base: (Bare Bones) ROS packaging, build, and communication tools

```
sudo apt install ros-noetic-ros-base
```

or click here

There are even more packages available in ROS. You can always install them via the ROS Index.

```
sudo apt install ros-noetic-PACKAGE
```

e.g.

```
sudo apt install ros-noetic-slam-gmapping
```

To find available packages, see [ROS Index](#) or use:

```
apt search ros-noetic
```

1.5 Environment setup

You must source this script in every **bash** terminal you use ROS in.

```
source /opt/ros/noetic/setup.bash
```

It can be convenient to automatically source this script every time a new terminal window is opened.

Bash

If you have more than one ROS distribution installed, make sure to source the correct one for the version you are currently using.

Step 59 screenshot.

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Step 60: (2/21/2022 9:42:08 PM) User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.1) ...
aspell-autobuildhash: processing: en [en-common].
aspell-autobuildhash: processing: en [en-variant_0].
aspell-autobuildhash: processing: en [en-variant_1].
aspell-autobuildhash: processing: en [en-variant_2].
aspell-autobuildhash: processing: en [en-w_accents-only].
aspell-autobuildhash: processing: en [en-wo_accents-only].
aspell-autobuildhash: processing: en [en_AU-variant_0].
aspell-autobuildhash: processing: en [en_AU-variant_1].
aspell-autobuildhash: processing: en [en_AU-w_accents-only].
aspell-autobuildhash: processing: en [en_AU-wo_accents-only].
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aspell-autobuildhash: processing: en [en_CA-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-variant_0].
aspell-autobuildhash: processing: en [en_GB-variant_1].
aspell-autobuildhash: processing: en [en_US-w_accents-only].
aspell-autobuildhash: processing: en [en_US-wo_accents-only].
Processing triggers for rygel (0.38.3-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for sgml-base (1.29.1) ...
ubuntu@ip-172-31-2-205:~\$ █ I

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 60 screenshot.

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Step 61: (2/21/2022 9:42:10 PM) User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Enter]

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

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Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.1) ...
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aspell-autobuildhash: processing: en [en-variant_0].
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aspell-autobuildhash: processing: en [en-wo_accents-only].
aspell-autobuildhash: processing: en [en_AU-variant_0].
aspell-autobuildhash: processing: en [en_AU-variant_1].
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aspell-autobuildhash: processing: en [en_CA-variant_0].
aspell-autobuildhash: processing: en [en_CA-variant_1].
aspell-autobuildhash: processing: en [en_CA-w_accents-only].
aspell-autobuildhash: processing: en [en_CA-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ise-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-w_accents-only].
aspell-autobuildhash: processing: en [en_GB-ize-wo_accents-only].
aspell-autobuildhash: processing: en [en_GB-variant_0].
aspell-autobuildhash: processing: en [en_GB-variant_1].
aspell-autobuildhash: processing: en [en_US-w_accents-only].
aspell-autobuildhash: processing: en [en_US-wo_accents-only].
Processing triggers for rygel (0.38.3-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...
Processing triggers for systemd (245.4-4ubuntu3.13) ...
Processing triggers for sgml-base (1.29.1) ...
ubuntu@ip-172-31-2-205:~\$ █

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



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Step 62: (2/21/2022 9:42:25 PM) User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 In

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

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Pause Record Stop Record Add Comment ?

```
aspell-autobuildhash: processing: en [en-w_accents-only].  
aspell-autobuildhash: processing: en [en-wo_accents-only].  
aspell-autobuildhash: processing: en [en_AU-variant_0].  
aspell-autobuildhash: processing: en [en_AU-variant_1].  
aspell-autobuildhash: processing: en [en_AU-w_accents-only].  
aspell-autobuildhash: processing: en [en_AU-wo_accents-only].  
aspell-autobuildhash: processing: en [en_CA-variant_0].  
aspell-autobuildhash: processing: en [en_CA-variant_1].  
aspell-autobuildhash: processing: en [en_CA-w_accents-only].  
aspell-autobuildhash: processing: en [en_CA-wo_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ise-w_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ise-wo_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ize-w_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ize-wo_accents-only].  
aspell-autobuildhash: processing: en [en_GB-variant_0].  
aspell-autobuildhash: processing: en [en_GB-variant_1].  
aspell-autobuildhash: processing: en [en_US-w_accents-only].  
aspell-autobuildhash: processing: en [en_US-wo_accents-only].  
Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.1) ...  
Processing triggers for rygel (0.38.3-1ubuntu1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...  
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...  
Processing triggers for systemd (245.4-4ubuntu3.13) ...  
Processing triggers for sgml-base (1.29.1) ...  
ubuntu@ip-172-31-2-205:~$ roscore  
  
Command 'roscore' not found, but can be installed with:  
sudo apt install python3-roslaunch  
ubuntu@ip-172-31-2-205:~$
```

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 62 screenshot.

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Step 63: (2/21/2022 9:42:42 PM) User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌘ ⌘ Not secure | wiki.ros.org/noetic/Installation/Ubuntu

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Pause Record Stop Record Add Comment

you would like to install.

Desktop-Full Install: (Recommended) : Everything in Desktop packages

```
sudo apt install ros-noetic-desktop-full
```

or [click here](#)

Desktop Install: Everything in ROS-Base plus tools like rqt

```
sudo apt install ros-noetic-desktop
```

or [click here](#)

ROS-Base: (Bare Bones) ROS packaging, build, and communication tools

```
sudo apt install ros-noetic-ros-base
```

or [click here](#)

There are even more packages available in ROS. You can always install them with:

```
sudo apt install ros-noetic-PACKAGE
```

e.g.

```
sudo apt install ros-noetic-slam-gmapping
```

To find available packages, see [ROS Index](#) or use:

```
apt search ros-noetic
```

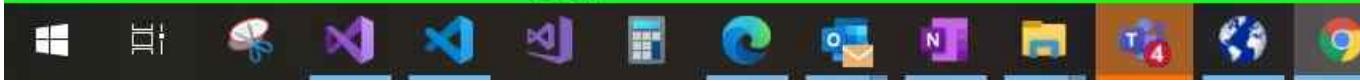
1.5 Environment setup

You must source this script in every **bash** terminal you use ROS in.

```
source /opt/ros/noetic/setup.bash
```

It can be convenient to automatically source this script every time a terminal window opens for you.

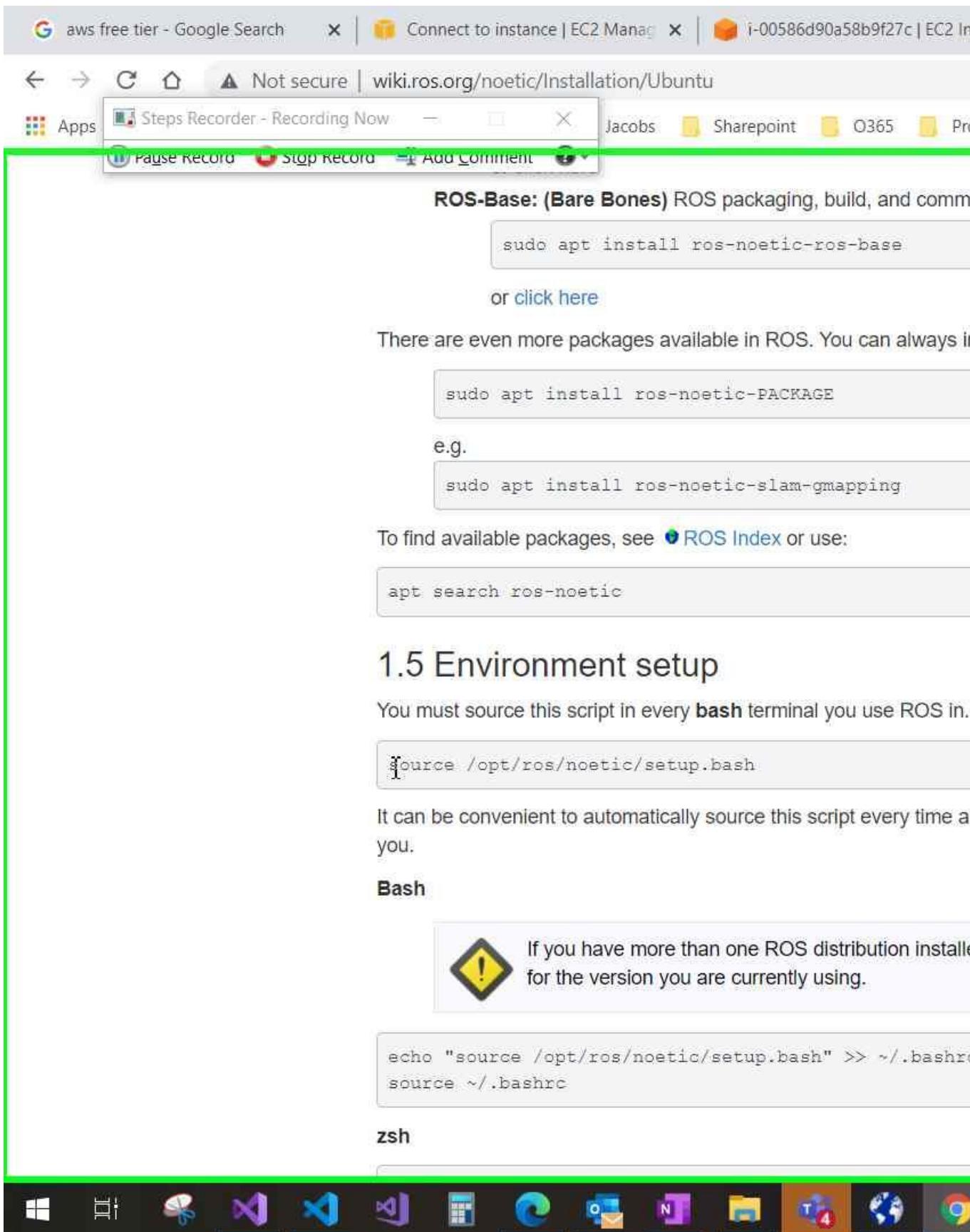
Bash



Step 63 screenshot.

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Step 64: (2/21/2022 9:42:47 PM) User mouse drag start on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 64 screenshot.

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Step 65: (2/21/2022 9:42:48 PM) User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌘ ⌘ Not secure | wiki.ros.org/noetic/Installation/Ubuntu

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Pause Record Stop Record Add Comment

ROS-Base: (Bare Bones) ROS packaging, build, and communication tools

`sudo apt install ros-noetic-ros-base`

or [click here](#)

There are even more packages available in ROS. You can always install them via the ROS Index.

`sudo apt install ros-noetic-PACKAGE`

e.g.

`sudo apt install ros-noetic-slam-gmapping`

To find available packages, see [ROS Index](#) or use:

`apt search ros-noetic`

1.5 Environment setup

You must source this script in every **bash** terminal you use ROS in.

`source /opt/ros/noetic/setup.bash`

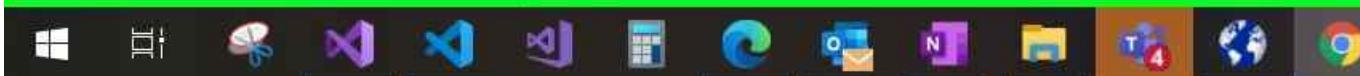
It can be convenient to automatically source this script every time a new terminal window is opened for you.

Bash

 If you have more than one ROS distribution installed, make sure to source the correct one for the version you are currently using.

`echo "source /opt/ros/noetic/setup.bash" >> ~/.bashrc`
`source ~/.bashrc`

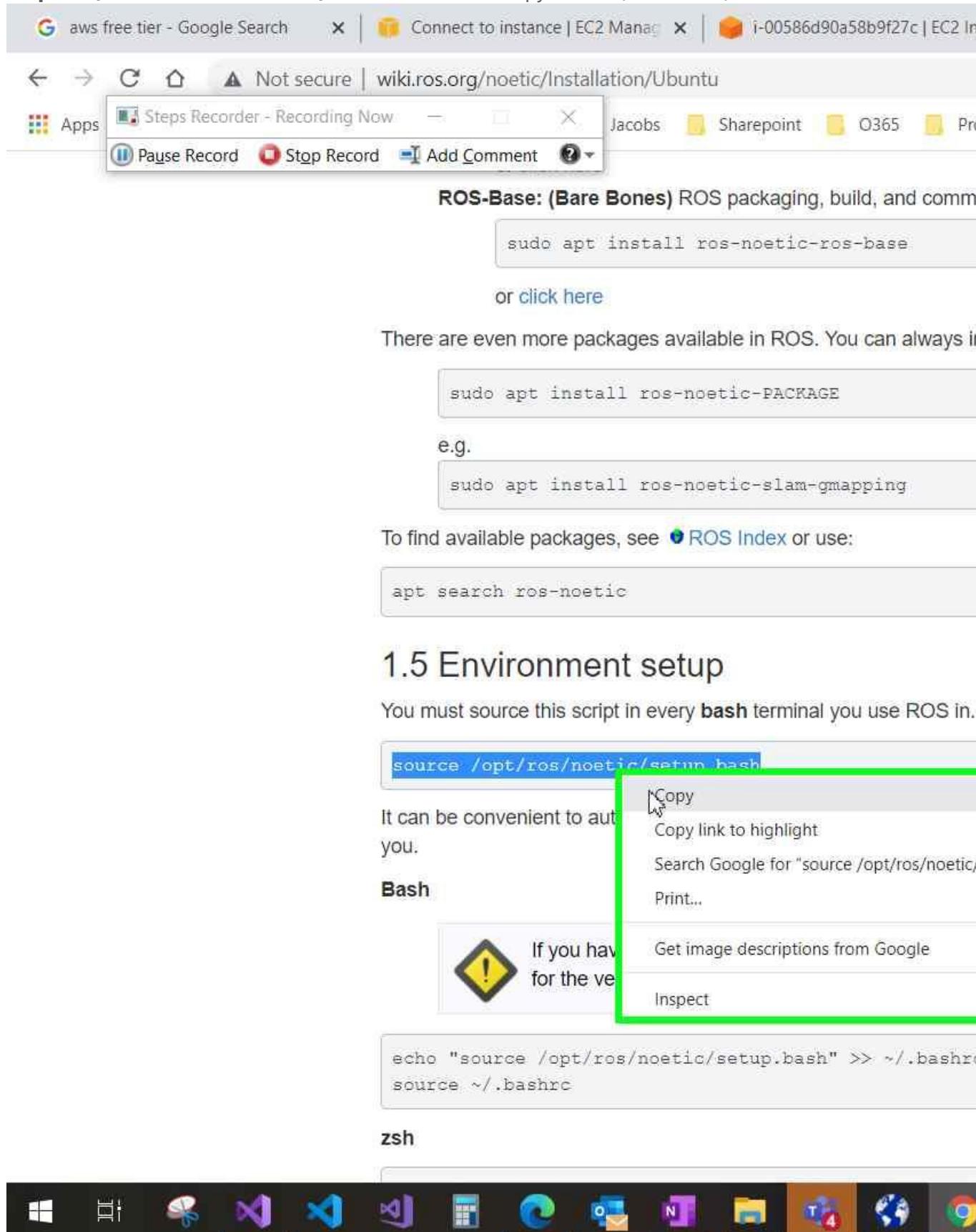
zsh



Step 65 screenshot.

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Step 66: (2/21/2022 9:42:50 PM) User left click on "Copy Ctrl+C (menu item)"



Step 66 screenshot.

[Previous](#) [Next](#)

Step 67: (2/21/2022 9:42:52 PM) User left click on "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome (pane)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

Not secure | wiki.ros.org/noetic/Installation/Ubuntu

Steps Recorder - Recording Now

Pause Record Stop Record Add Comment

ROS-Base: (Bare Bones) ROS packaging, build, and communication

`sudo apt install ros-noetic-ros-base`

or [click here](#)

There are even more packages available in ROS. You can always install them via the ROS Index.

`sudo apt install ros-noetic-PACKAGE`

e.g.

`sudo apt install ros-noetic-slam-gmapping`

To find available packages, see [ROS Index](#) or use:

`apt search ros-noetic`

1.5 Environment setup

You must source this script in every **bash** terminal you use ROS in.

`source /opt/ros/noetic/setup.bash`

It can be convenient to automatically source this script every time a new terminal window is opened for you.

Bash

 If you have more than one ROS distribution installed, make sure to source the correct one for the version you are currently using.

`echo "source /opt/ros/noetic/setup.bash" >> ~/.bashrc`
`source ~/.bashrc`

zsh



Step 67 screenshot.

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Step 68: (2/21/2022 9:42:54 PM) User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Ctrl-V Enter Backspace ... Enter]

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 In

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

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Pause Record Stop Record Add Comment ?

```
aspell-autobuildhash: processing: en [en-w_accents-only].  
aspell-autobuildhash: processing: en [en-wo_accents-only].  
aspell-autobuildhash: processing: en [en_AU-variant_0].  
aspell-autobuildhash: processing: en [en_AU-variant_1].  
aspell-autobuildhash: processing: en [en_AU-w_accents-only].  
aspell-autobuildhash: processing: en [en_AU-wo_accents-only].  
aspell-autobuildhash: processing: en [en_CA-variant_0].  
aspell-autobuildhash: processing: en [en_CA-variant_1].  
aspell-autobuildhash: processing: en [en_CA-w_accents-only].  
aspell-autobuildhash: processing: en [en_CA-wo_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ise-w_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ise-wo_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ize-w_accents-only].  
aspell-autobuildhash: processing: en [en_GB-ize-wo_accents-only].  
aspell-autobuildhash: processing: en [en_GB-variant_0].  
aspell-autobuildhash: processing: en [en_GB-variant_1].  
aspell-autobuildhash: processing: en [en_US-w_accents-only].  
aspell-autobuildhash: processing: en [en_US-wo_accents-only].  
Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.1) ...  
Processing triggers for rygel (0.38.3-1ubuntu1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...  
Processing triggers for dbus (1.12.16-2ubuntu2.1) ...  
Processing triggers for systemd (245.4-4ubuntu3.13) ...  
Processing triggers for sgml-base (1.29.1) ...  
ubuntu@ip-172-31-2-205:~$ roscore
```

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

```
sudo apt install python3-roslaunch
```

ubuntu@ip-172-31-2-205:~\$

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 68 screenshot.

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Step 69: (2/21/2022 9:43:17 PM) User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Command Pause Record Stop Record Add Comment

```
Command: sudo apt install python3-roslaunch

ubuntu@ip-172-31-2-205:~$ source /opt/ros/noetic/setup.bash
ubuntu@ip-172-31-2-205:~$ roscore
... logging to /home/ubuntu/.ros/log/2c0dfcc6-9331-11ec-a592-4df57541405b
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
roscore
started roslaunch server http://ip-172-31-2-205:36649/
ros_comm version 1.15.14

SUMMARY
=====

PARAMETERS
* /rosdistro: noetic
* /rosversion: 1.15.14

NODES

auto-starting new master
process[master]: started with pid [39087]
ROS_MASTER_URI=http://ip-172-31-2-205:11311/
roscore http://ip-172-31-2-205:11311/
setting /run_id to 2c0dfcc6-9331-11ec-a592-4df57541405b
process[rosout-1]: started with pid [39097]
started core service [/rosout]
```

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 69 screenshot.

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Step 70: (2/21/2022 9:43:29 PM) User mouse wheel up on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Get:1591 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 .../libcurl4-openssl-dev_7.68.0-1_amd64.deb

Get:1596 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 .../libcurl4-openssl-dev_7.68.0-1_amd64.deb

Get:1597 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 .../libcurl4-openssl-dev_7.68.0-1_amd64.deb

Get:1598 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/universe .../libcurl4-openssl-dev_7.68.0-1_amd64.deb

Get:1599 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates .../libcurl4-openssl-dev_7.68.0-1_amd64.deb

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

sudo apt install python3-roslaunch

ubuntu@ip-172-31-2-205:~\$ source /opt/ros/noetic/setup.bash

ubuntu@ip-172-31-2-205:~\$ roscore

... logging to /home/ubuntu/.ros/log/2c0dfcc6-9331-11ec-a592-4df5754140e0

Checking log directory for disk usage. This may take a while.

Press Ctrl-C to interrupt

Done checking log file disk usage. Usage is <1GB.

roscore

started roslaunch server http://ip-172-31-2-205:36649/

ros_comm version 1.15.14

SUMMARY

=====

PARAMETERS

- * /rosdistro: noetic
- * /rosversion: 1.15.14

NODES

auto-starting new master

process[master]: started with pid [39087]

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 70 screenshot.

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Step 71: (2/21/2022 9:43:40 PM) User mouse wheel down on "somehost
(document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

Steps Recorder - Recording Now

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Get:1591 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 Packages
Get:1596 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 Packages
Get:1597 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 Packages
Get:1598 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages
Get:1599 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/amd64 Packages

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

sudo apt install python3-roslaunch

ubuntu@ip-172-31-2-205:~\$ source /opt/ros/noetic/setup.bash
ubuntu@ip-172-31-2-205:~\$ roscore
... logging to /home/ubuntu/.ros/log/2c0dfcc6-9331-11ec-a592-4df5754140
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
roscore
started roslaunch server http://ip-172-31-2-205:36649/
ros_comm version 1.15.14

SUMMARY
=====

PARAMETERS

- * /rosdistro: noetic
- * /rosversion: 1.15.14

NODES

auto-starting new master
process[master]: started with pid [39087]

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 71 screenshot.

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Step 72: (2/21/2022 9:44:09 PM) User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

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Pause Record Stop Record Add Comment

Command

```
sudo apt install python3-roslaunch

ubuntu@ip-172-31-2-205:~$ source /opt/ros/noetic/setup.bash
ubuntu@ip-172-31-2-205:~$ roscore
... logging to /home/ubuntu/.ros/log/2c0dfcc6-9331-11ec-a592-4df57541405b
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
oscore
started roslaunch server http://ip-172-31-2-205:36649/
ros_comm version 1.15.14

SUMMARY
=====

PARAMETERS
* /rosdistro: noetic
* /rosversion: 1.15.14

NODES

auto-starting new master
process[master]: started with pid [39087]
ROS_MASTER_URI=http://ip-172-31-2-205:11311/
oscore http://ip-172-31-2-205:11311/
setting /run_id to 2c0dfcc6-9331-11ec-a592-4df57541405b
process[rosout-1]: started with pid [39097]
started core service [/rosout]
```

i-00586d90a58b9f27c

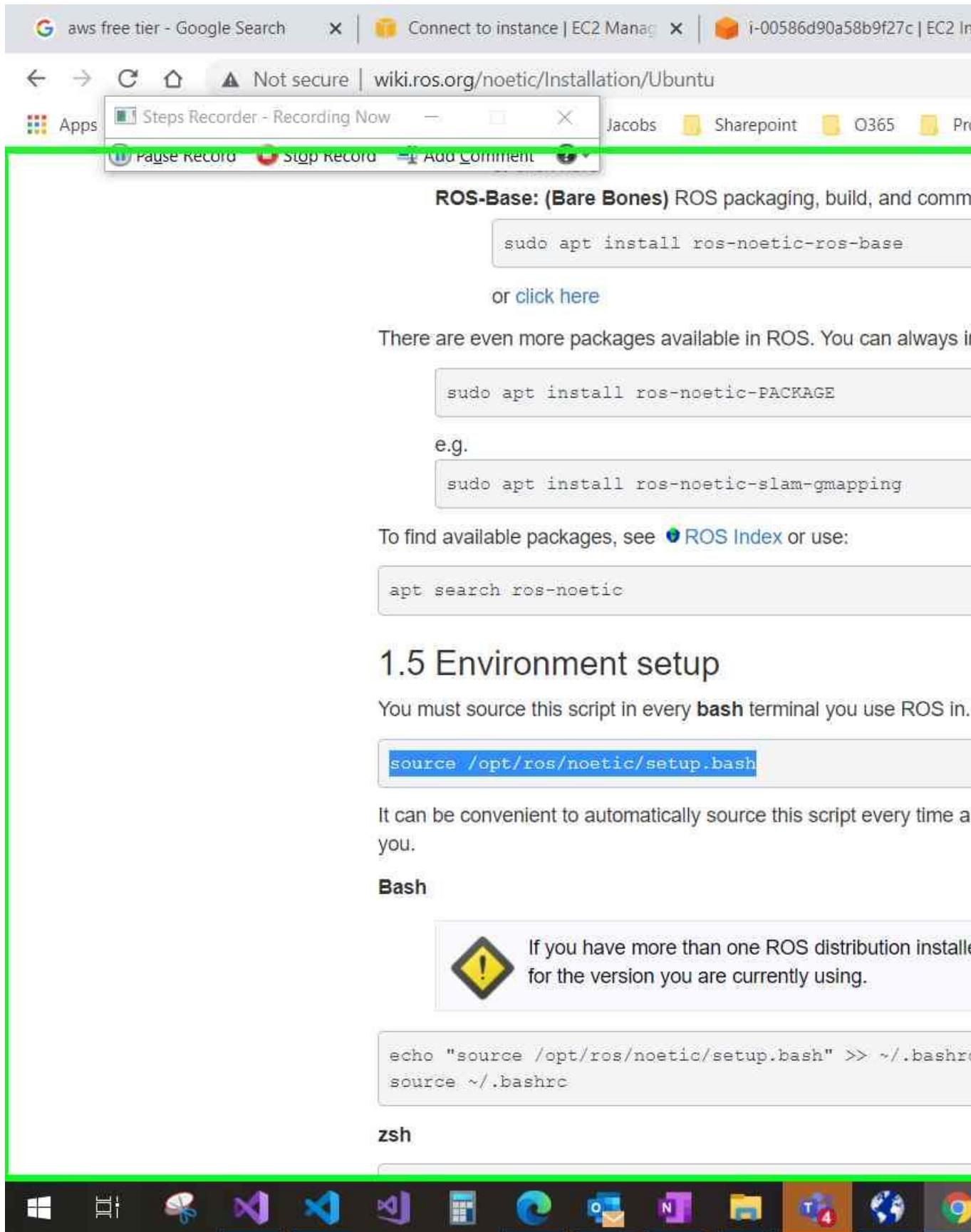
Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 72 screenshot.

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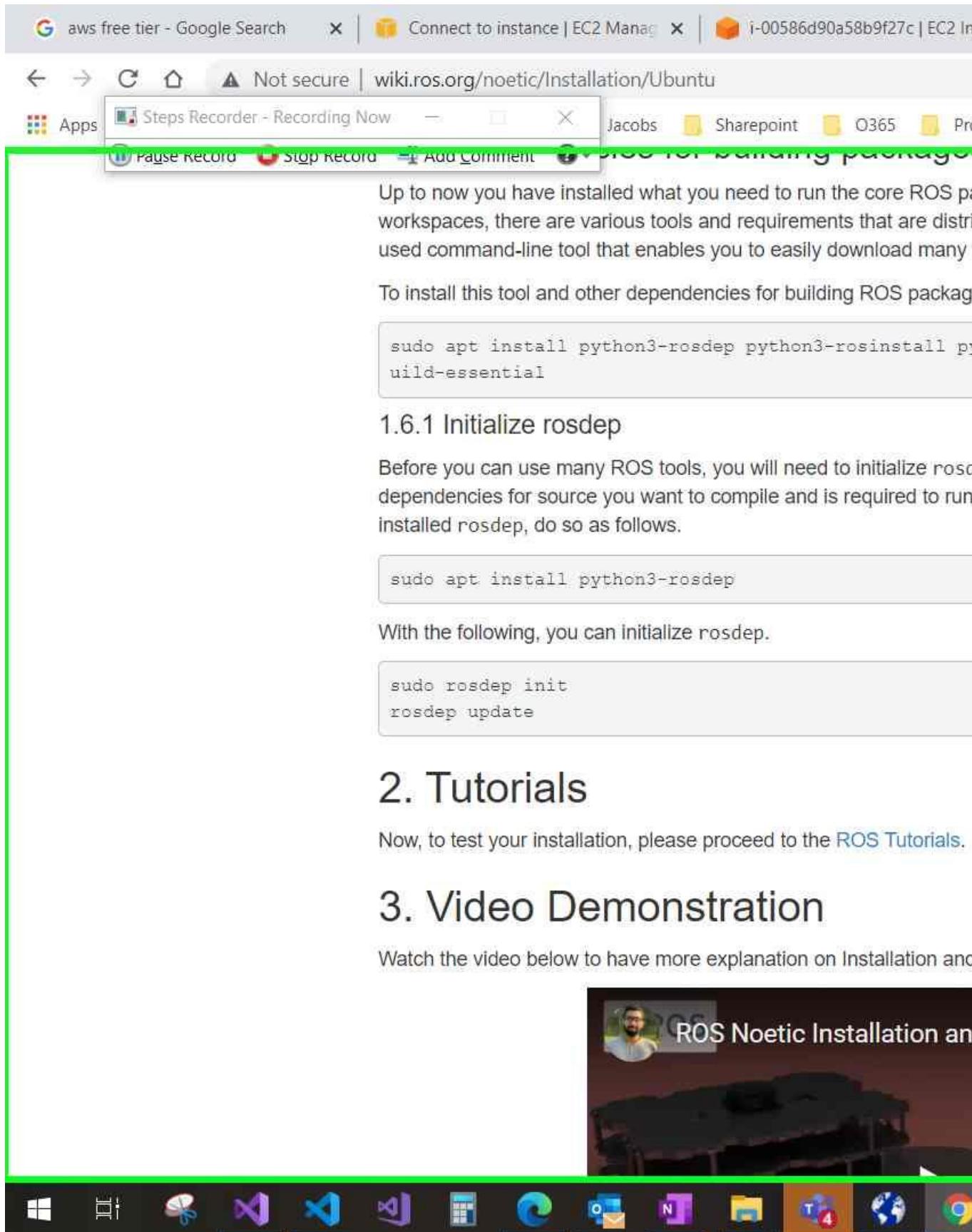
Step 73: (2/21/2022 9:44:10 PM) User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 73 screenshot.

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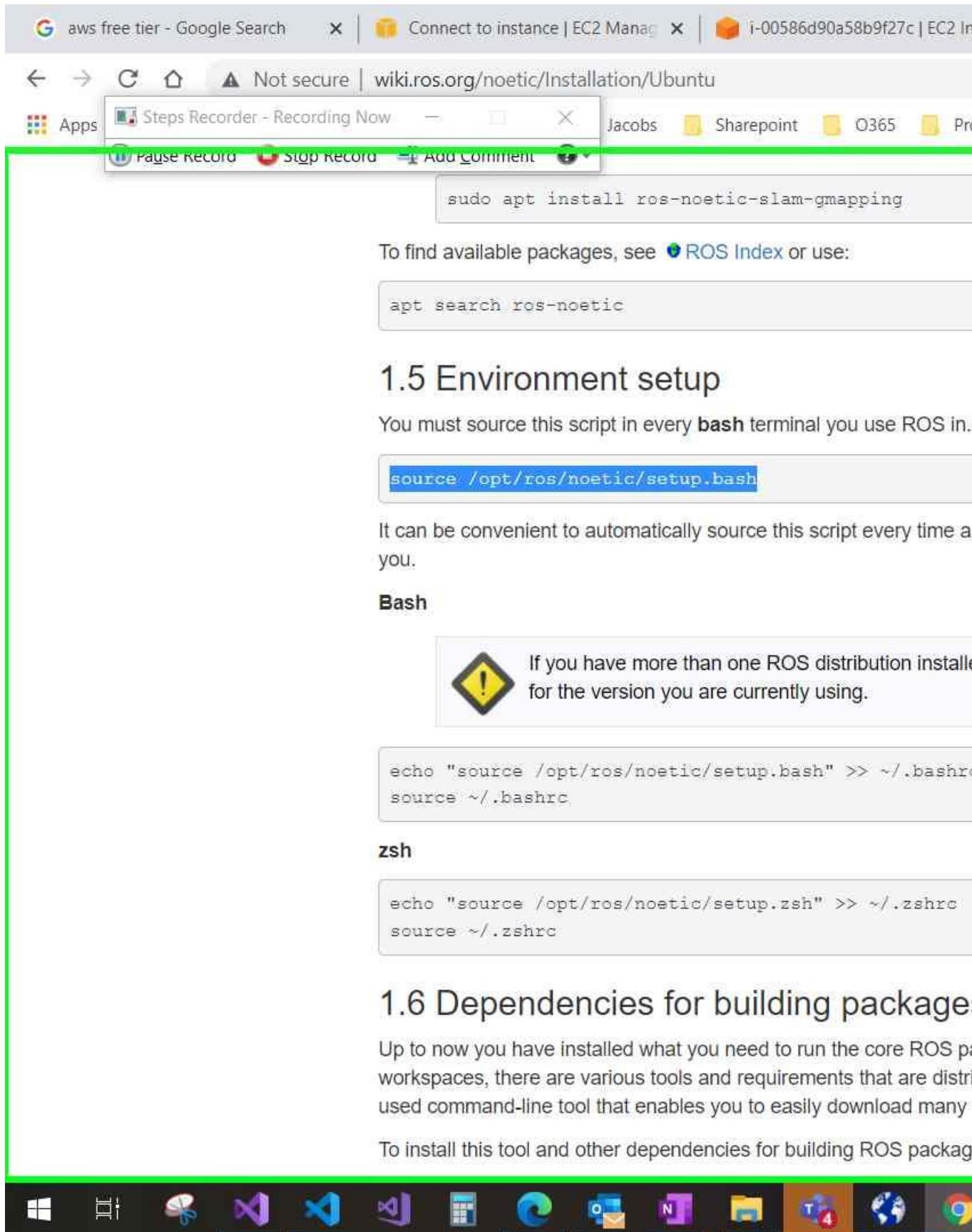
Step 74: (2/21/2022 9:44:14 PM) User mouse wheel up on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 74 screenshot.

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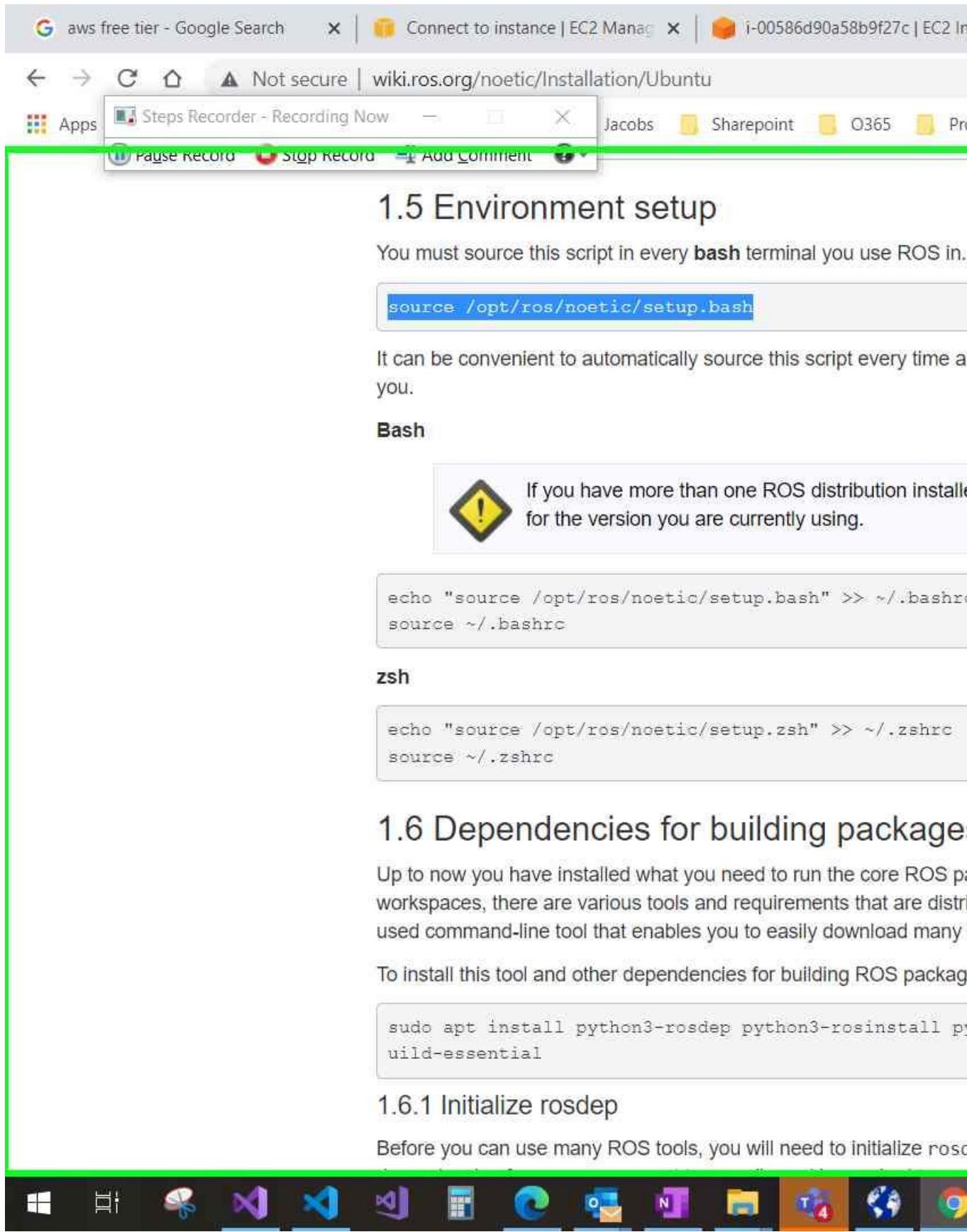
Step 75: (2/21/2022 9:44:18 PM) User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 75 screenshot.

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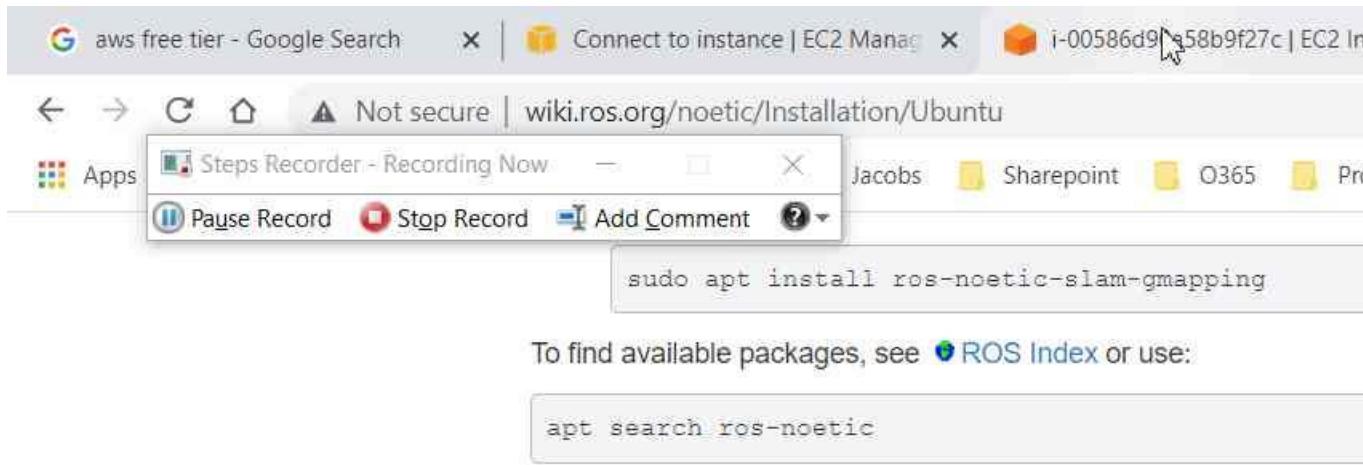
Step 76: (2/21/2022 9:44:19 PM) User mouse wheel up on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



Step 76 screenshot.

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Step 77: (2/21/2022 9:44:21 PM) User left click on "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome (pane)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"



1.5 Environment setup

You must source this script in every **bash** terminal you use ROS in.

```
source /opt/ros/noetic/setup.bash
```

It can be convenient to automatically source this script every time a terminal is opened.

Bash



If you have more than one ROS distribution installed, make sure to source the correct one for the version you are currently using.

```
echo "source /opt/ros/noetic/setup.bash" >> ~/.bashrc
source ~/.bashrc
```

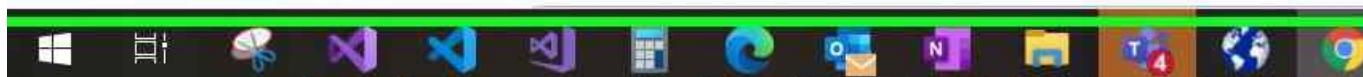
zsh

```
echo "source /opt/ros/noetic/setup.zsh" >> ~/.zshrc
source ~/.zshrc
```

1.6 Dependencies for building packages

Up to now you have installed what you need to run the core ROS packages. To build your own packages or workspaces, there are various tools and requirements that are distributed with ROS. One such tool is `wget`, a command-line tool that enables you to easily download many files from the Internet.

To install this tool and other dependencies for building ROS packages, run the following command:



Step 77 screenshot.

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Step 78: (2/21/2022 9:44:26 PM) User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Enter]

aws free tier - Google Search | Connect to instance | EC2 Manager | i-00586d90a58b9f27c | EC2 Instances

← → C ⌂ ⌂ ap-south-1.console.aws.amazon.com/ec2/v2/connect/ubuntu/i-00586d90a58b9f27c

Apps Steps Recorder - Recording Now Jacobs Sharepoint O365 Pro

Pause Record Stop Record Add Comment

Command

```
sudo apt install python3-roslaunch

ubuntu@ip-172-31-2-205:~$ source /opt/ros/noetic/setup.bash
ubuntu@ip-172-31-2-205:~$ roscore
... logging to /home/ubuntu/.ros/log/2c0dfcc6-9331-11ec-a592-4df57541405b
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
oscore
started roslaunch server http://ip-172-31-2-205:36649/
ros_comm version 1.15.14

SUMMARY
=====
```

I

```
PARAMETERS
* /rosdistro: noetic
* /rosversion: 1.15.14

NODES

auto-starting new master
process[master]: started with pid [39087]
ROS_MASTER_URI=http://ip-172-31-2-205:11311/
oscore http://ip-172-31-2-205:11311/
setting /run_id to 2c0dfcc6-9331-11ec-a592-4df57541405b
process[rosout-1]: started with pid [39097]
started core service [/rosout]
```

i-00586d90a58b9f27c

Public IPs: 13.235.79.34 Private IPs: 172.31.2.205



Step 78 screenshot.

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Additional Details

The following section contains the additional details that were recorded. These details help accurately identify the programs and UI you used in this recording. This section may contain text that is internal to programs that only very advanced users or programmers may understand. Please review these details to ensure that they do not contain any information that you would not like others to see.

Recording Session: 2/21/2022 9:21:21 PM - 9:52:32 PM

Recorded Steps: 78, Missed Steps: 125, Other Errors: 0

Operating System: 19041.1.amd64fre.vb_release.191206-1406 10.0.0.0.2.4

Step 1: User mouse wheel down in "Dashboard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 2: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 3: User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 4: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 5: User keyboard input on "Launch instance wizard | EC2 Management Console - Google Chrome (pane)" in "Launch instance wizard | EC2 Management Console - Google Chrome" [...]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Launch instance wizard | EC2 Management Console - Google Chrome, Chrome_WidgetWin_1

Step 6: User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:

Step 7: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:

Step 8: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:

Step 9: User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:

Step 10: User mouse wheel up in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:

Step 11: User mouse wheel down on "Launch instance wizard | EC2 Management Console (document)" in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Launch instance wizard | EC2 Management Console, Chrome_RenderWidgetHostHWND, Launch instance wizard | EC2 Management Console - Google Chrome, Chrome_WidgetWin_1

Step 12: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 13: User left clicked

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 14: User left click on "Move this notification to action center (button)" in "New notification"

*Program: Windows Shell Experience Host, 10.0.19041.1320 (WinBuild.160101.0800),
Microsoft Corporation, SHELLEXPERIENCEHOST.EXE -
SERVERNAME:APP.APPXTK181TBXBCE2QSEX02S8TW7HFXA9XB3T.MCA,
SHELLEXPERIENCEHOST.EXE*

UI Elements: Move this notification to action center, Button, New notification from Outlook, SPOFlowAdminJacobs, Health Attestation - Rejected (Mason ward) (Redding Office) Hello Admin, Health attesation for Mason ward is rejected. Please visit Dashboard to check more details. <end>. Picture, Placeholder image. . Actions, New notification from Outlook, SPOFlowAdminJacobs, Health Attestation - Rejected (Mason ward) (Redding Office) Hello Admin, Health attesation for Mason ward is rejected. Please visit Dashboard to check more details. <end>. Picture, Placeholder image. . Actions, New notification, Windows.UI.Core.CoreWindow

Step 15: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Launch instance wizard | EC2 Management Console - Google Chrome, Chrome_WidgetWin_1

Step 17: User left clicked

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 18: User left click on "Launch instance wizard | EC2 Management Console (document)" in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Launch instance wizard | EC2 Management Console,

Chrome_RenderWidgetHostHWND, Launch instance wizard | EC2 Management Console - Google Chrome, Chrome_WidgetWin_1

Step 19: User left clicked

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 20: User keyboard input on "Launch instance wizard | EC2 Management Console - Google Chrome (pane)" in "Launch instance wizard | EC2 Management Console - Google Chrome" [...]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Launch instance wizard | EC2 Management Console - Google Chrome, Chrome_WidgetWin_1

Step 21: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 22: User left click in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 23: User mouse wheel down in "Launch instance wizard | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 24: User left click in "Instances | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 25: User left click in "Instances | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 26: User left click in "Instances | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 27: User mouse wheel down in "Instance details | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 28: User mouse wheel up in "Instance details | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 29: User left click in "Instance details | EC2 Management Console - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements:

Step 30: User left click on "Search Google or type a URL (combo box)" in "New Tab - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Search Google or type a URL, New Tab, Chrome_RenderWidgetHostHWND, New Tab - Google Chrome, Chrome_WidgetWin_1

Step 31: User keyboard input on "New Tab - Google Chrome (pane)" in "New Tab - Google Chrome" [... Enter]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: New Tab - Google Chrome, Chrome_WidgetWin_1

Step 32: User left click on "ros neotic - Google Search (document)" in "ros neotic - Google Search - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: ros neotic - Google Search, Chrome_RenderWidgetHostHWND, ros neotic - Google Search - Google Chrome, Chrome_WidgetWin_1

Step 33: User mouse wheel down on "noetic - ROS Wiki (document)" in "noetic - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: noetic - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 34: User left click on "noetic - ROS Wiki (document)" in "noetic - ROS Wiki - Google

Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic - ROS Wiki - Google Chrome, Chrome_WidgetWin_1*

Step 35: User mouse wheel down on "ROS Noetic Ninjemys Released May, 2020 Latest LTS, supported until May, 2025 Recommended for Ubuntu 20.04 Noetic Ninjemys (item)" in "ROS/Installation - ROS Wiki - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: ROS Noetic Ninjemys Released May, 2020 Latest LTS, supported until May, 2025 Recommended for Ubuntu 20.04 Noetic Ninjemys, ROS/Installation - ROS Wiki, Chrome_RenderWidgetHostHWND, ROS/Installation - ROS Wiki - Google Chrome, Chrome_WidgetWin_1*

Step 36: User left click on "ROS/Installation - ROS Wiki (document)" in "ROS/Installation - ROS Wiki - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: ROS/Installation - ROS Wiki, Chrome_RenderWidgetHostHWND, ROS/Installation - ROS Wiki - Google Chrome, Chrome_WidgetWin_1*

Step 37: User mouse wheel down on "noetic/Installation - ROS Wiki (document)" in "noetic/Installation - ROS Wiki - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation - ROS Wiki - Google Chrome, Chrome_WidgetWin_1*

Step 38: User mouse wheel up in "Instance details | EC2 Management Console - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:*

Step 39: User left click in "Instances | EC2 Management Console - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:*

Step 40: User mouse wheel down in "Connect to instance | EC2 Management Console - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:*

Step 41: User mouse drag start in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements:

Step 42: User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 43: User right click on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 44: User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Enter]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 45: User mouse drag start on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 46: User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 47: User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [... Ctrl-V Enter Ctrl-V Enter]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 48: User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 49: User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 50: User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 51: User left click on "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome (pane)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 52: User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [...] Ctrl-V Enter ... Enter]
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 53: User left click on "Move this notification to action center (button)" in "New notification"
Program: Windows Shell Experience Host, 10.0.19041.1320 (WinBuild.160101.0800), Microsoft Corporation, SHELLEXPERIENCEHOST.EXE - SERVERNAME:APP.APPXTK181TBXBCE2QSEX02S8TW7HFXA9XB3T.MCA, SHELLEXPERIENCEHOST.EXE
UI Elements: Move this notification to action center, Button, New notification from Outlook, Daily Digest, End User Digest: 1 New Message End User Digest: 1 New Message

For Kalpesh Jadhav Kalpesh.Jadhav@jacobs.com The messages in your personal Digest represent emails that have been filtered and sorted into different categories, giving you an opportunity to take action on them.... Picture, Placeholder image.. Actions, New notification from Outlook, Daily Digest, End User Digest: 1 New Message End User Digest: 1 New Message For Kalpesh Jadhav Kalpesh.Jadhav@jacobs.com The messages in your personal Digest represent emails that have been filtered and sorted into different categories, giving you an opportunity to take action on them.... Picture, Placeholder image.. Actions, New notification, Windows.UI.Core.CoreWindow

Step 54: User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: somehost, i-00586d90a58b9f27c | EC2 Instance Connect, Chrome_RenderWidgetHostHWND, i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1*

Step 55: User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: somehost, i-00586d90a58b9f27c | EC2 Instance Connect, Chrome_RenderWidgetHostHWND, i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1*

Step 56: User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1*

Step 57: User left click on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1*

Step 58: User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

*Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1*

Step 59: User mouse wheel up on "noetic/Installation/Ubuntu - ROS Wiki (document)" in

"noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND,

noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 60: User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2

Instance Connect - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: somehost, i-00586d90a58b9f27c | EC2 Instance Connect,

Chrome_RenderWidgetHostHWND, i-00586d90a58b9f27c | EC2 Instance Connect -

Google Chrome, Chrome_WidgetWin_1

Step 61: User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google

Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [...]

[Enter]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome,

Chrome_WidgetWin_1

Step 62: User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google

Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome,

Chrome_WidgetWin_1

Step 63: User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)"

in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND,

noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 64: User mouse drag start on "noetic/Installation/Ubuntu - ROS Wiki (document)"

in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND,

noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 65: User mouse drag end on "noetic/Installation/Ubuntu - ROS Wiki (document)"

in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 66: User left click on "Copy Ctrl+C (menu item)"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: Copy Ctrl+C, Chrome_WidgetWin_2, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 67: User left click on "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome (pane)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 68: User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [...] Ctrl-V Enter Backspace ... Enter]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 69: User left click on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: somehost, i-00586d90a58b9f27c | EC2 Instance Connect, Chrome_RenderWidgetHostHWND, i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 70: User mouse wheel up on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: somehost, i-00586d90a58b9f27c | EC2 Instance Connect, Chrome_RenderWidgetHostHWND, i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 71: User mouse wheel down on "somehost (document)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE

UI Elements: somehost, i-00586d90a58b9f27c | EC2 Instance Connect, Chrome_RenderWidgetHostHWND, i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 72: User left click on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome, Chrome_WidgetWin_1

Step 73: User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 74: User mouse wheel up on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 75: User mouse wheel down on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 76: User mouse wheel up on "noetic/Installation/Ubuntu - ROS Wiki (document)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki, Chrome_RenderWidgetHostHWND, noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 77: User left click on "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome (pane)" in "noetic/Installation/Ubuntu - ROS Wiki - Google Chrome"
Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: noetic/Installation/Ubuntu - ROS Wiki - Google Chrome, Chrome_WidgetWin_1

Step 78: User keyboard input on "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome (pane)" in "i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome" [...] Enter]

Program: Google Chrome, 98.0.4758.82, Google LLC, CHROME.EXE --USE-SPDY=OFF --

*DISABLE-QUIC --FLAG-SWITCHES-BEGIN --FLAG-SWITCHES-END, CHROME.EXE
UI Elements: i-00586d90a58b9f27c | EC2 Instance Connect - Google Chrome,
Chrome_WidgetWin_1*

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