# AWS re:Invent

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# Troubleshooting with Amazon EC2 serial console

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# Today we have in the audience...



Role



Method of access



Familiarity

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# Agenda

Demo: Help! I broke my network!

What is Amazon EC2 serial console?

How do I get started with Amazon EC2 serial console ?

Demo: Help! The kernel update broke my instance!

The path ahead

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# Help! I broke my network!

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# What is the Amazon EC2 serial console?



**Secure** connection to serial port



**Interactive** troubleshooting



**One-click** from the console or AWS CLI, API

aws

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# Benefits of the Amazon EC2 serial console



**Interactive** session to debug



**Out-of-band** communication with instance



**Networking** capabilities not required

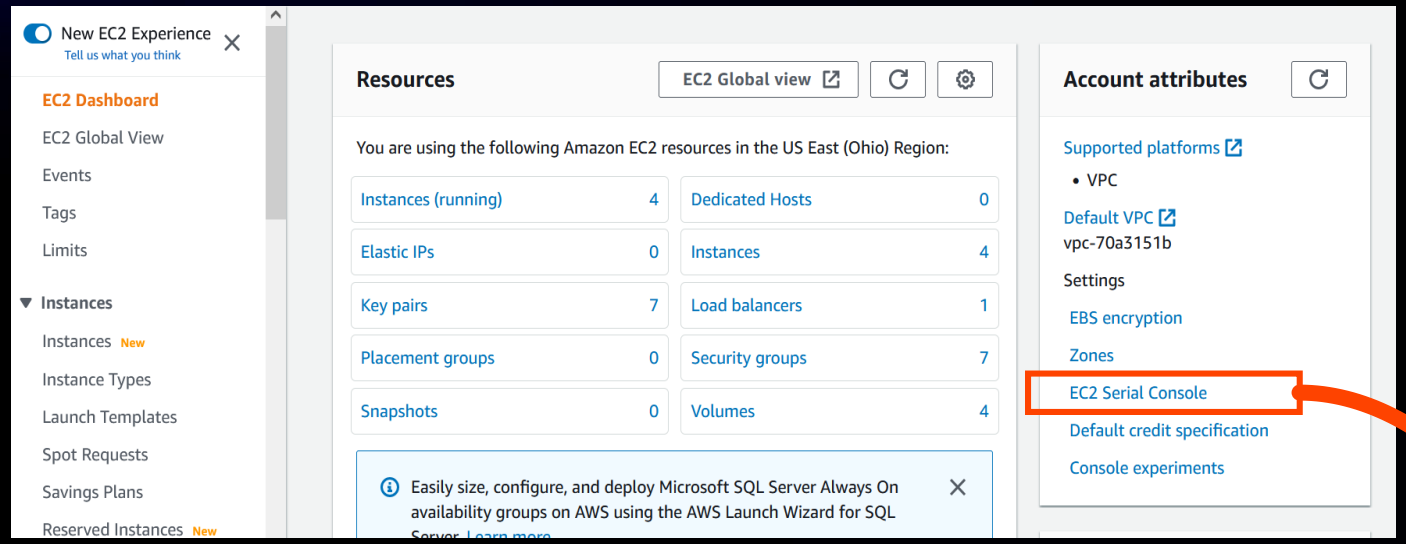


**One-time setup** and one-click access

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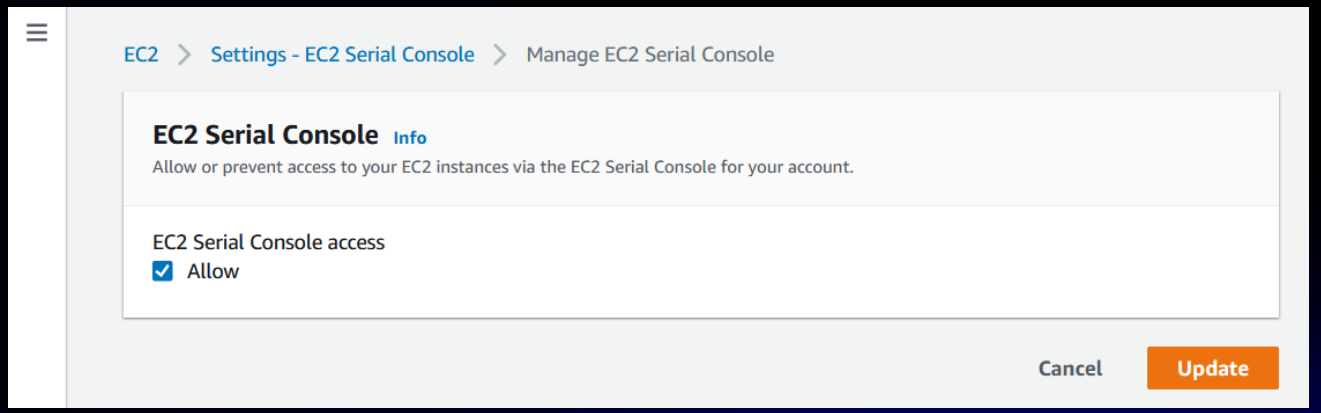
# How to get started?

## STEP 1: TURN ON ACCESS TO THE SERIAL CONSOLE






Ensure the user has the right AWS Identity and Access Management permissions

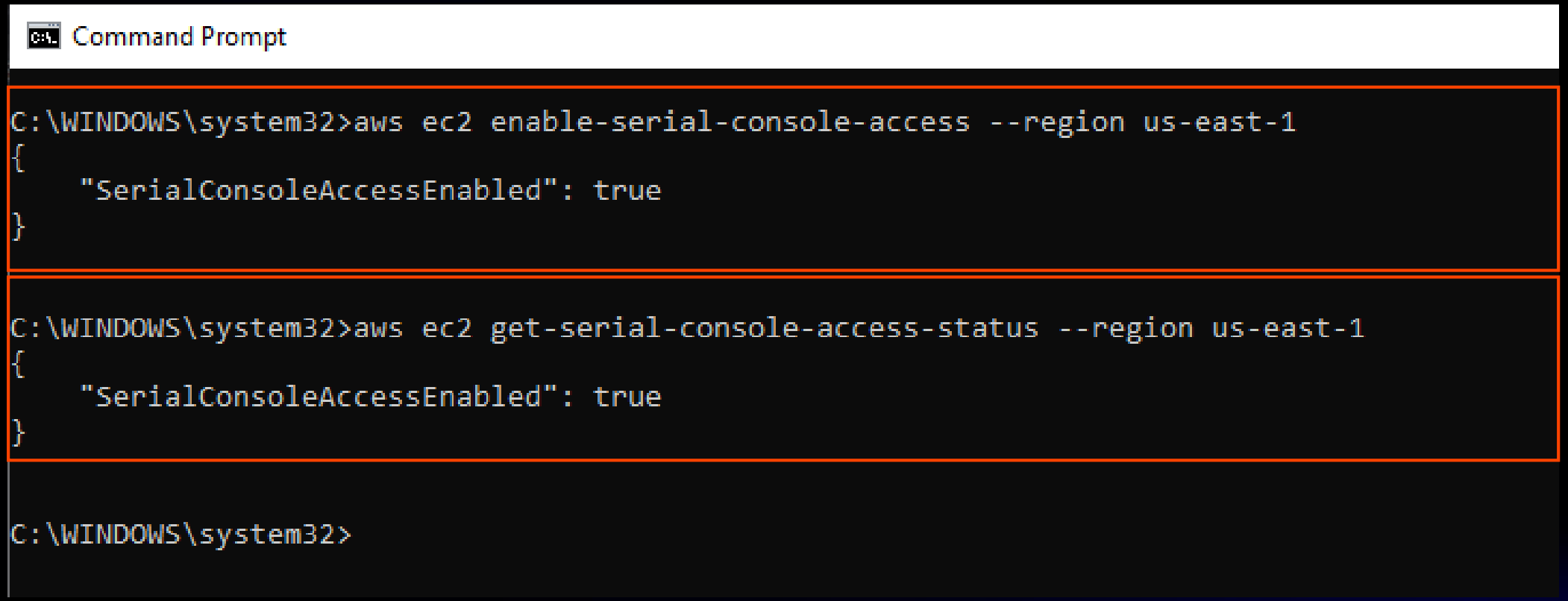



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# How to get started?

STEP 1: ALTERNATIVELY, YOU CAN TURN ON THE SERIAL CONSOLE FROM THE AWS CLI

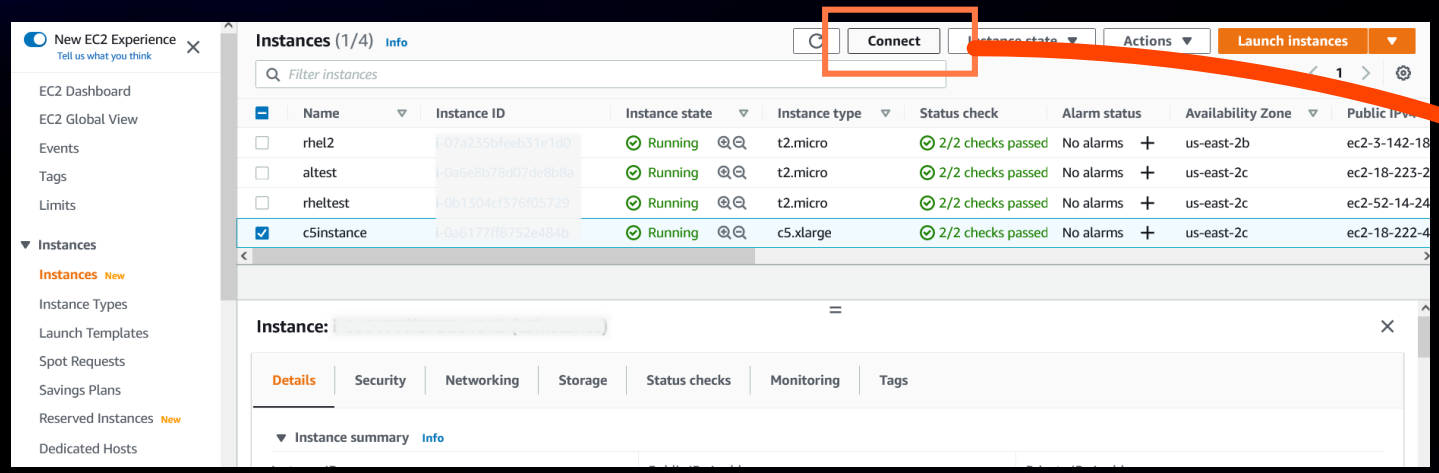
Allow access to the Amazon EC2 serial console at the account level using the console or by calling the API: `EnableSerialConsoleAccess`

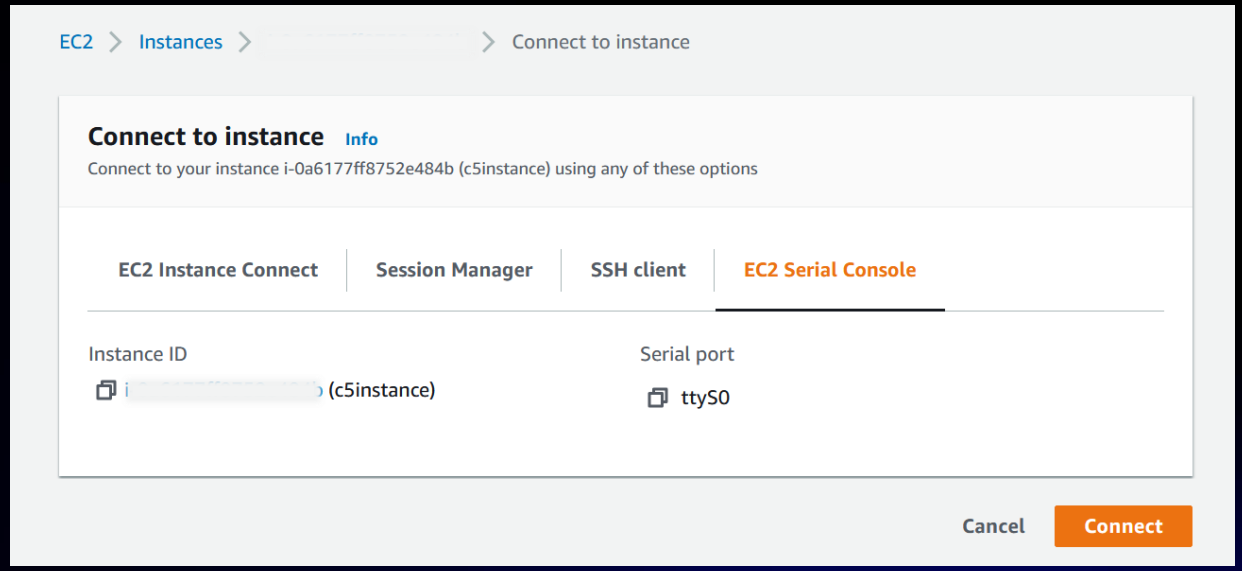



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# How to get started?

## STEP 2: CONNECT TO THE SERIAL CONSOLE

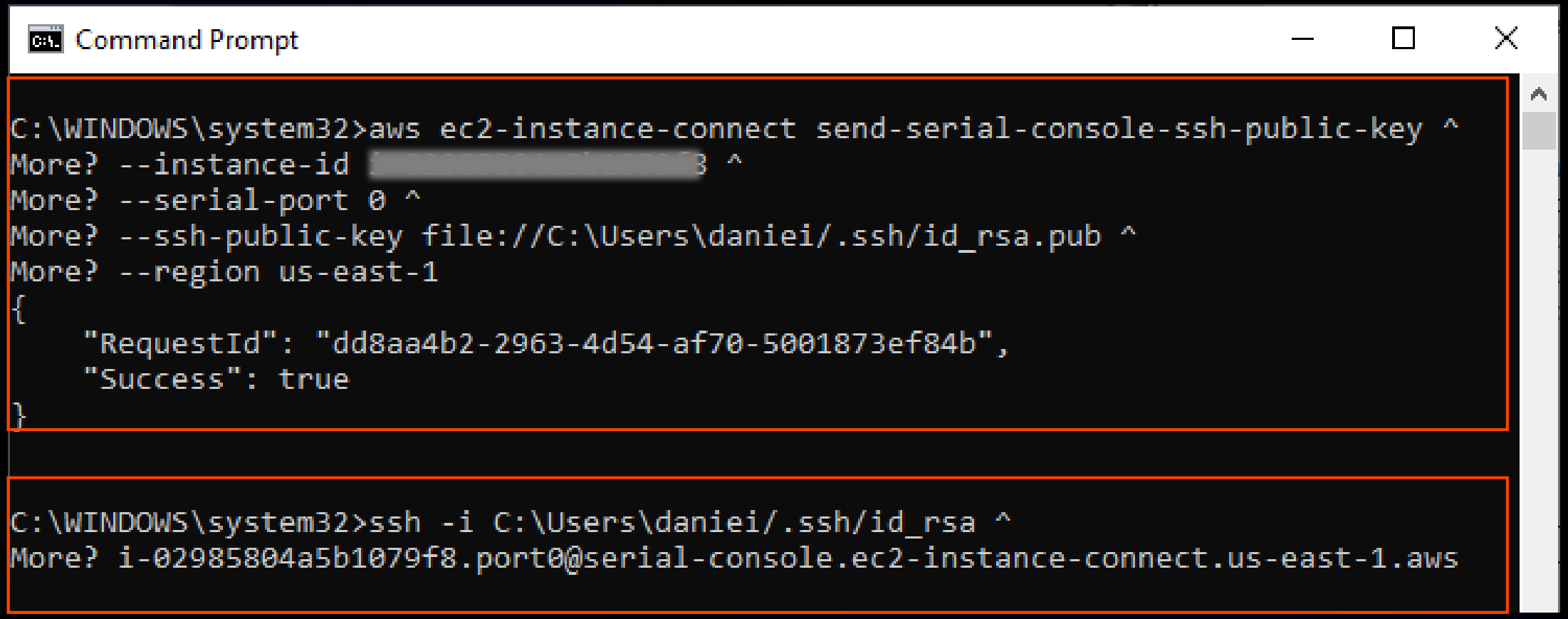



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# How to get started?

STEP 2: ALTERNATIVELY, USE THE AWS CLI TO CONNECT TO THE SERIAL CONSOLE

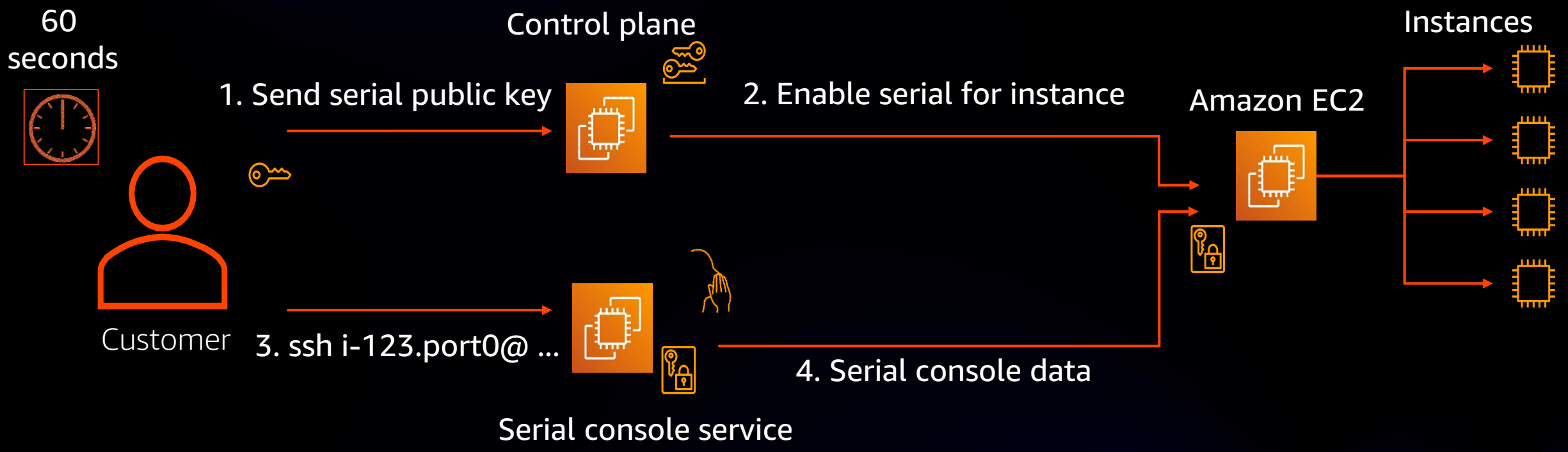



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# Magic behind the scenes: How does serial console work?

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# Create a session




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# Help! The kernel update broke my instance!

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# Some other use cases



Accidentally booted into Windows safe mode



Missing block device error



Debug using SysRq

aws

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# Key takeaways

Use the serial console when regular connectivity is broken

Interact with the boot menu

Browser and AWS CLI support

Other use cases

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# Additional resources

Here are some resources for you to learn more about the AWS EC2 serial console

Blogs

Troubleshoot boot and networking issues with new EC2 serial console

Using EC2 serial console to access the GRUB menu and recover from boot failures

Using the EC2 serial console to access the Microsoft Server boot manager to fix and debug boot failures

Documentation

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-serial-console.html

aws

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# Thank you!

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