

Workflow for Creating a Cloud9 Environment on AWS | Created by Guillermo David Sierra

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Created by

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STEP 1

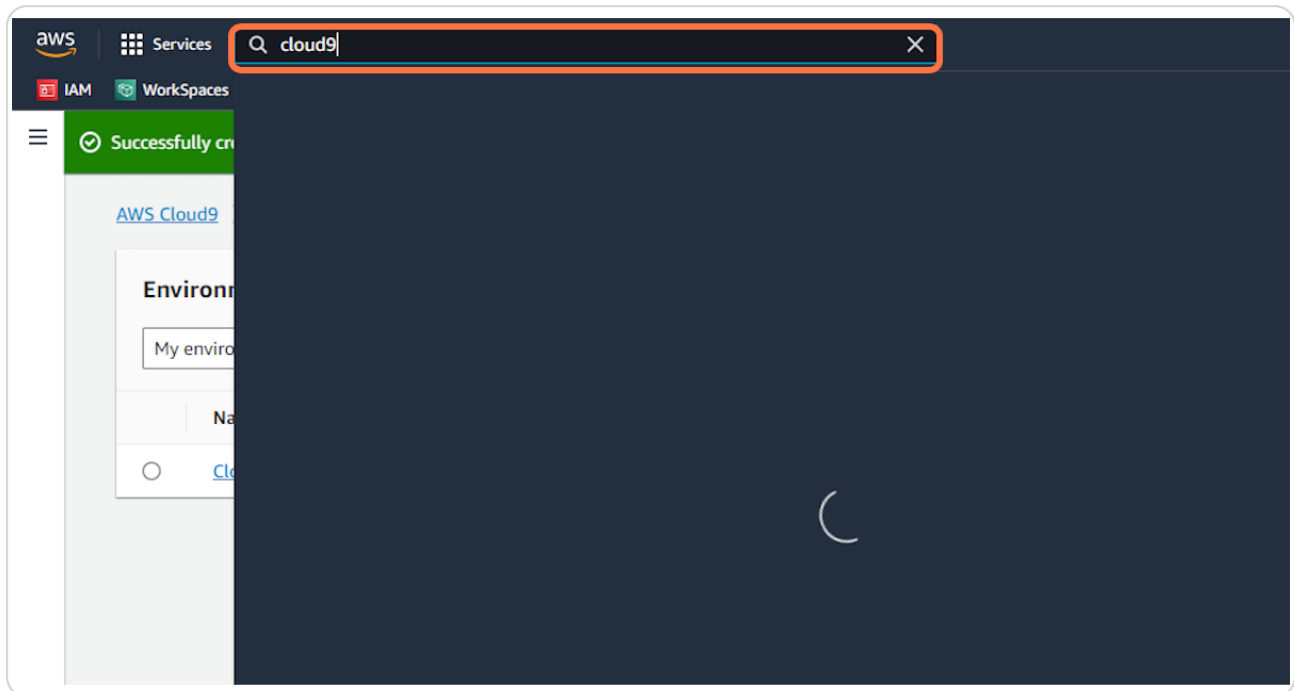
Creating Cloud9 environments

This workflow was created by engineer Guillermo David Sierra, AWS cloud engineer. It was tested and no errors were found in the steps. The purpose of this guide is to save time, research, and troubleshooting to complete the task.

AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser. It provides a pre-configured development environment with everything you need to get started, including a code editor, a terminal, a debugger, and a file browser.

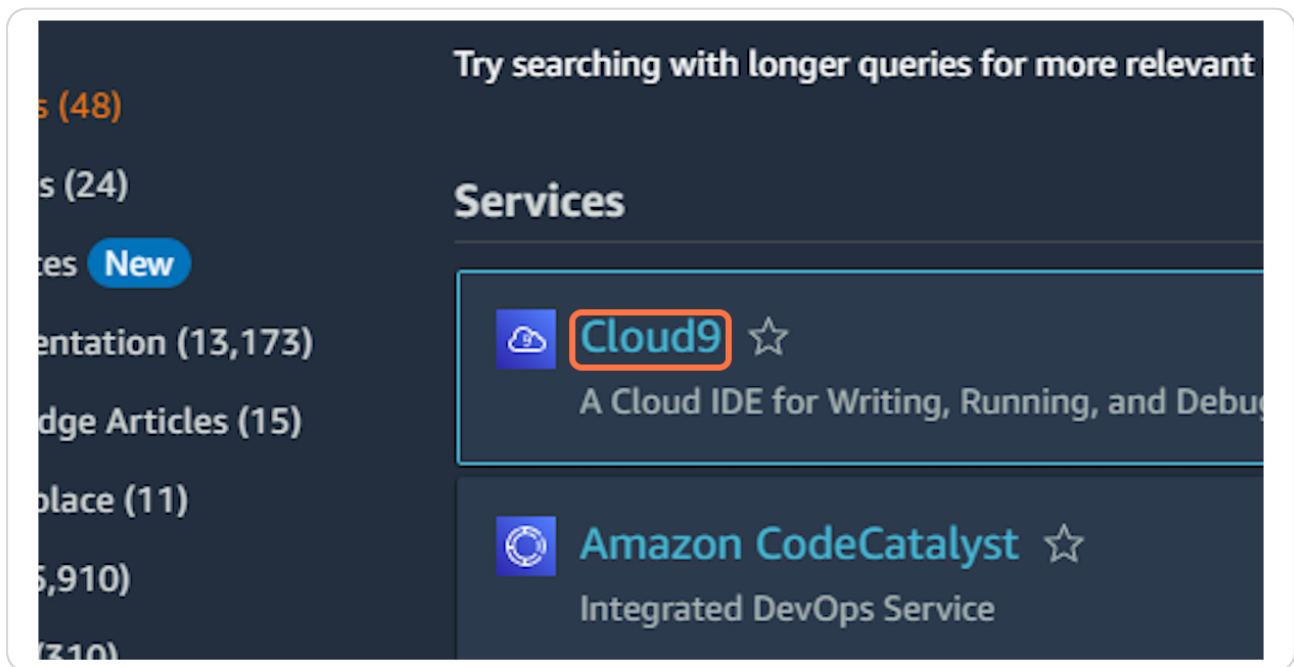
Here are some of the benefits of using AWS Cloud9:

- It is a cloud-based IDE, so you can access it from anywhere with an internet connection.
- It is pre-configured with all the tools you need to get started, so you don't have to install anything.
- It is easy to use, even for beginners.
- It is a secure environment, with your code and data protected.



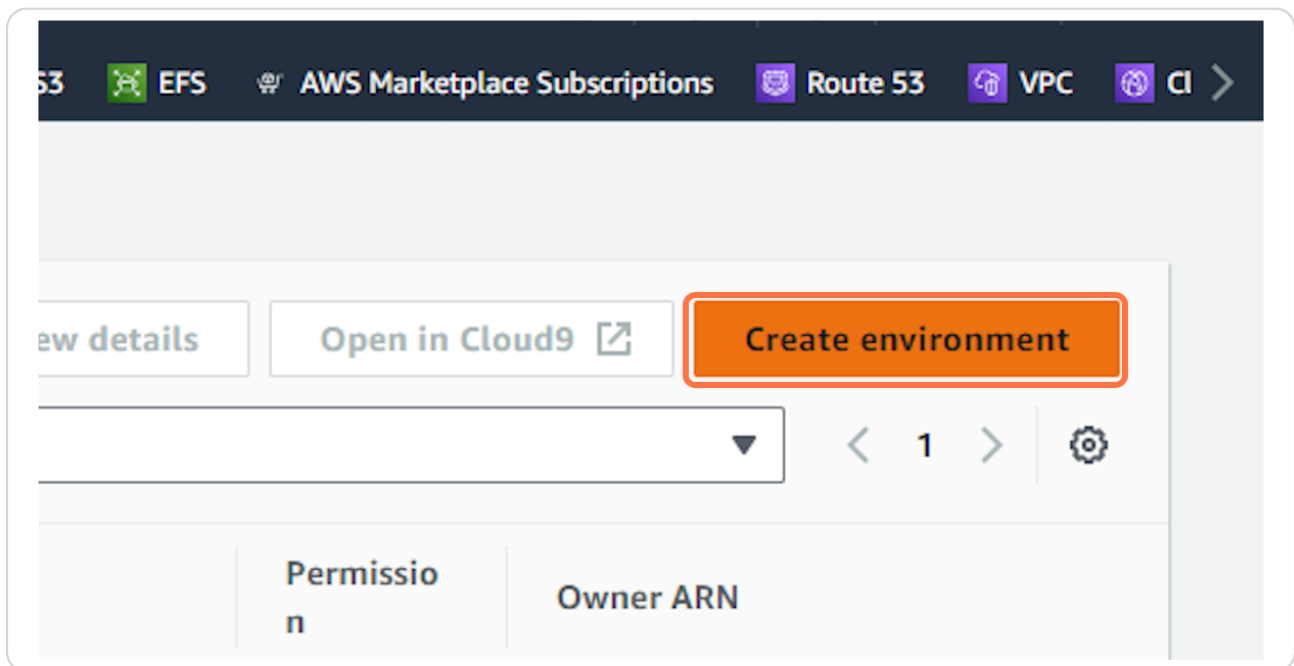
STEP 2

Click on Cloud9



STEP 3

Click on Create environment



STEP 4

Type the name of your environment, in this example we will use "Cloud9-Test"

The screenshot shows the AWS Cloud9 'Create environment' page. The breadcrumb trail is 'AWS Cloud9 > Environments > Create environment'. The page title is 'Create environment' with an 'Info' link. Under the 'Details' section, the 'Name' field is highlighted with an orange border and contains the text 'Cloud9-Test'. Below the name field is a small text indicating a limit of 60 characters. The 'Description - optional' field is empty. Under 'Environment type', the 'New EC2 instance' option is selected with a radio button, and the 'Existing compute' option is unselected.

STEP 5

Click on Description - optional

This screenshot is similar to the previous one, but the 'Description - optional' field is now highlighted with an orange border and contains the text 'Cloud9-Test'. The 'Name' field still contains 'Cloud9-Test'. The 'Environment type' section remains the same, with 'New EC2 instance' selected. Below the 'Environment type' section, a new section titled 'New EC2 instance' is visible, which is currently empty.

STEP 6

Click on Environment type...

The screenshot shows the AWS Cloud9 console interface. At the top, there's a navigation bar with various AWS services. The main content area is titled 'Description - optional' and contains a text input field with 'Cloud9-Test'. Below this, the 'Environment type' section is visible, with a sub-header 'Info' and a description 'Determines what the Cloud9 IDE will run on.' There are two radio button options: 'New EC2 instance' (selected) and 'Existing compute'. The 'New EC2 instance' option is highlighted with a red box. Below this, the 'Instance type' section is visible, with a sub-header 'Info' and a description 'The memory and CPU of the EC2 instance that will be created for Cloud9 to run on.' There are three radio button options: 't2.micro (1 GiB RAM + 1 vCPU)' (selected), 't3.small (2 GiB RAM + 2 vCPU)', and 'm5.large (8 GiB RAM + 2 vCPU)'. The 't2.micro' option is highlighted with a red box. Below this, there is an 'Additional instance types' option.

STEP 7

Click on Instance type...

The screenshot shows the AWS Cloud9 console interface, specifically the 'New EC2 instance' section. The 'Instance type' section is visible, with a sub-header 'Info' and a description 'The memory and CPU of the EC2 instance that will be created for Cloud9 to run on.' There are three radio button options: 't2.micro (1 GiB RAM + 1 vCPU)' (selected), 't3.small (2 GiB RAM + 2 vCPU)', and 'm5.large (8 GiB RAM + 2 vCPU)'. The 't2.micro' option is highlighted with a red box. Below this, there is an 'Additional instance types' option. The 'Platform' section is visible, with a sub-header 'Info' and a description 'This will be installed on your EC2 instance. We recommend Amazon Linux 2.' The 'Platform' dropdown menu is set to 'Amazon Linux 2'. The 'Timeout' section is visible at the bottom.

STEP 8

Click on Amazon Linux 2

Instance type [Info](#)
The memory and CPU of the EC2 instance that will be created for Cloud9 to run on.

☒ t2.micro (1 GiB RAM + 1 vCPU)
Free-tier eligible. Ideal for educational users and exploration.

☐ t3.small (2 GiB RAM + 2 vCPU)
Recommended for small web projects.

☐ m5.large (8 GiB RAM + 2 vCPU)
Recommended for production and most general-purpose development.

☐ Additional instance types
Explore additional instances to fit your need.

Platform [Info](#)
This will be installed on your EC2 instance. We recommend Amazon Linux 2.

Amazon Linux 2

Amazon Linux 2 Recommended ✓

Ubuntu Server 22.04 LTS

30 minutes

Network settings [Info](#)

Connection
How your environment is accessed.

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STEP 9

Click on Connection

How long Cloud9 can be inactive (no user input) before auto-hibernating. This helps prevent unnecessary charges.

30 minutes

Network settings [Info](#)

Connection
How your environment is accessed.

☒ AWS Systems Manager (SSM)
Accesses environment via SSM without opening inbound ports (no ingress).

☐ Secure Shell (SSH)
Accesses environment directly via SSH, opens inbound ports.

► VPC settings [Info](#)

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

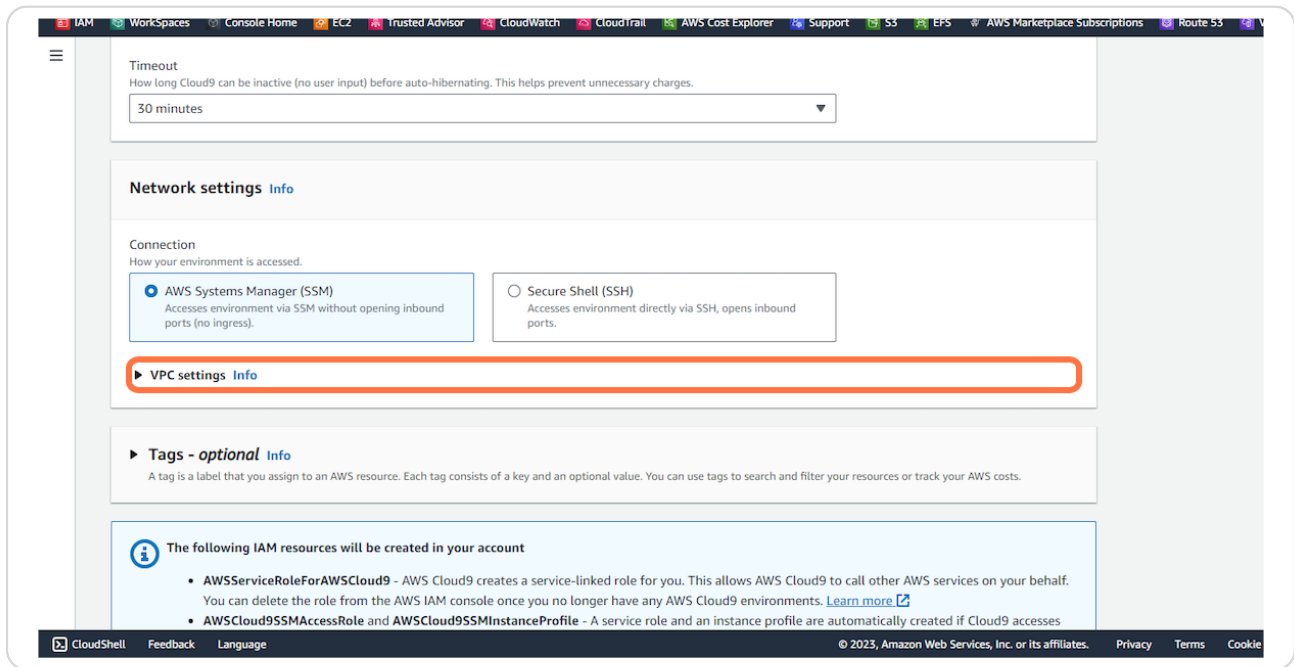
The following IAM resources will be created in your account

- AWSServiceRoleForAWSCloud9 - AWS Cloud9 creates a service-linked role for you. This allows AWS Cloud9 to call other AWS services on your behalf. You can delete the role from the AWS IAM console once you no longer have any AWS Cloud9 environments. [Learn more](#)
- AWSCloud9SSMAccessRole and AWSCloud9SSMInstanceProfile - A service role and an instance profile are automatically created if Cloud9 accesses

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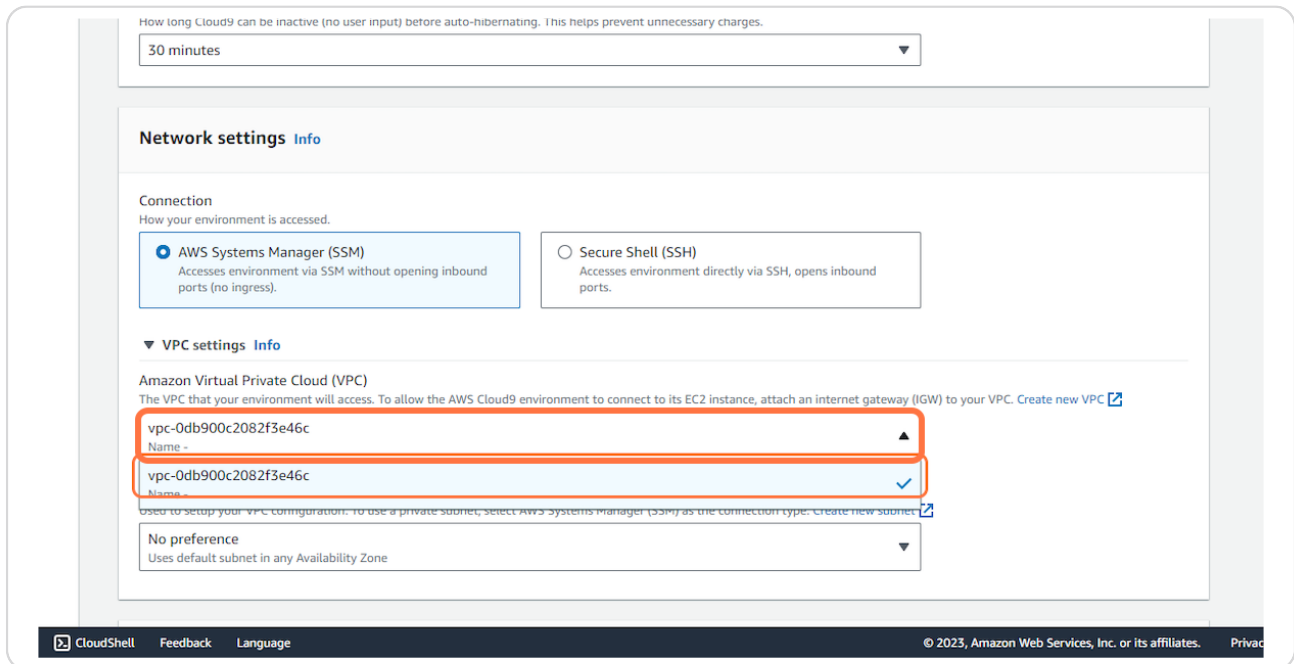
STEP 10

Click on VPC settings...



STEP 11

Click on vpc-0db900c2082f3e46c...



STEP 12

Click on Tags - optional...

The screenshot shows the AWS Cloud9 console interface. The 'Tags - optional' section is highlighted with a red box. The console displays various settings for the Cloud9 environment, including connection methods (AWS Systems Manager (SSM) and Secure Shell (SSH)), VPC settings (VPC ID: vpc-0db900c2082f3e46c), and subnet selection (No preference). The 'Tags - optional' section explains that a tag is a label assigned to an AWS resource, consisting of a key and an optional value, used for searching and filtering resources. Below this, it lists IAM resources to be created, including the 'AWSServiceRoleForAWSCloud9' role. The right sidebar shows a list of AWS regions and availability zones, with 'Europe (Frankfurt)' and 'Europe (Ireland)' highlighted.

Region	Availability Zone
US East (N. Virginia)	us-east-1
US East (Ohio)	us-east-2
US West (N. California)	us-west-1
US West (Oregon)	us-west-2
Asia Pacific (Mumbai)	ap-south-1
Asia Pacific (Osaka)	ap-northeast-3
Asia Pacific (Seoul)	ap-northeast-2
Asia Pacific (Singapore)	ap-southeast-1
Asia Pacific (Sydney)	ap-southeast-2
Asia Pacific (Tokyo)	ap-northeast-1
Canada (Central)	ca-central-1
Europe (Frankfurt)	eu-central-1
Europe (Ireland)	eu-west-1
Europe (London)	eu-west-2
Europe (Paris)	eu-west-3
Europe (Stockholm)	eu-north-1

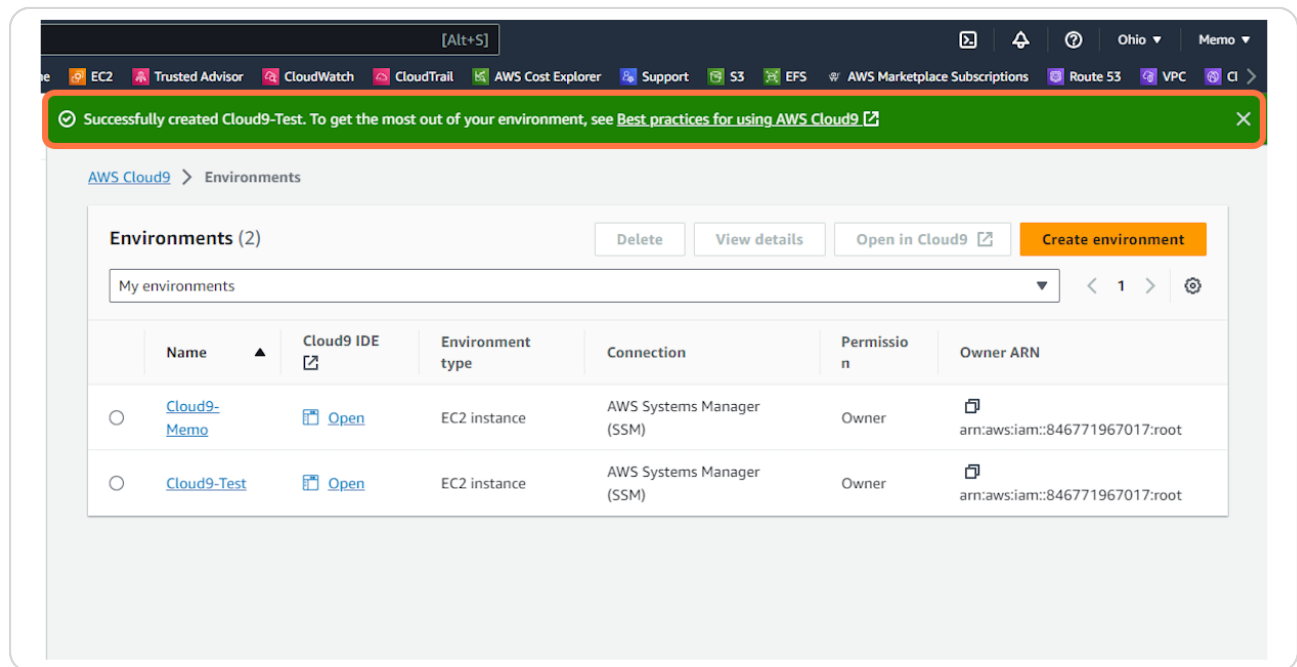
STEP 13

Click on Create

The screenshot shows the AWS Cloud9 console interface. The 'Create' button is highlighted with a red box. The console displays a message about deleting traffic, followed by a 'Cancel' button and the 'Create' button. The footer of the console shows the Amazon Web Services, Inc. or its affiliates. logo, along with links to Privacy and Terms.

STEP 14

Notifications will appear that it was created successfully.



STEP 15

Click on Open

