



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF TECHNOLOGY

DHULE (M.S.)

DEPARTMENT OF COMPUTER ENGINEERING

Subject : Cloud Computing Lab

Remark

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Roll No. : 40

Class : B.tech Final Year

Batch : B2

Division: -

Expt. No. : 3

Date : --/10/2025

Signature

Title : Working in Cloud9 to demonstrate different language

Aim: Working in Cloud9 to demonstrate different language



Sign up for AWS

Confirm your identity (i) Info

Primary purpose of account registration

Choose one that best applies to you. If your account is tied to a business, select the one that applies to your business.

Academic ▾

Ownership type

Choose your ownership relation to the account. Based on your selection, you may be asked to complete additional customer verification steps.

Individual ▾

India document type (i) Info

To verify your identity, the name on the document must match the name that you chose.

PAN card ▾

Date of birth

To use this document type, you must be at least 18 years old.

2004/10/05

Format: YYYY/MM/DD

Permanent Account Number (PAN)

Enter Permanent Account Number (PAN)

The PAN is 10 alphanumeric characters without spaces or tabs. Example: AAAA1111B

Name (i) Info

Choose the name that you want to use for identity verification.

MOHAMMAD ANAS AARIF BAIG MIRZA

The full name from your contact information.

Mohammad Anas Aarif Baig Mirza

The full name from your billing information.

Upload front of Permanent Account Number (PAN) card

Congratulations!

We are activating your account, which should take a few minutes. You will receive an email when this is complete.

[Go to the AWS Management Console](#)

[Sign up for another account](#)



My role is:

Hi, I can connect you or answer questions [Ask me a question](#)

I am interested in:

Yes, I'd like [Amazon Web Services \(AWS\)](#) to share the latest news about

Permanently dismiss [Change landing page](#)

You can change your default landing page for EC2. [Change landing page](#)

Resources
You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

Instances (running)	0	Auto Scaling Groups	0	Capacity Reservations	0
Dedicated Hosts	0	Elastic IPs	0	Instances	0
Key pairs	0	Load balancers	0	Placement groups	0
Security groups	1	Snapshots	0	Volumes	0

Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.
[Launch instance](#) [Migrate a server](#)

Note: Your instances will launch in the Europe (Stockholm) Region

Instance alarms [View in CloudWatch Metrics](#)

0 in alarm	0 OK	0 insufficient data
Instances in alarm		

Scheduled events [Edit scheduled events](#)

Europe (Stockholm)

Account attributes

Default VPC [Edit](#) vpc-03669ff3c769bc83a

Settings

Data protection and security
Allowed AMIs
Zones [Edit](#)
EC2 Serial Console
Default credit specification
EC2 console preferences

Explore AWS

Introducing Spot Blueprints, a Real-Time Template Generator
Take advantage of Spot Blueprints to quickly generate CloudFormation and Terraform templates like Kubernetes and Apache Spark. [Learn more](#)

Enable Best Price-Performance with AWS Graviton2
AWS Graviton2-powered EC2 instances enable up to 40% better price performance for a broad spectrum of cloud workloads. [Learn more](#)

Amazon GuardDuty Malware Protection
GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container workloads. [Learn more](#)

Additional information [Get started walkthroughs](#)

The screenshot shows the AWS Billing and Cost Management console. On the left, there's a sidebar with navigation links for Home, Getting Started, Dashboards, Billing and Payments, Cost and Usage Analysis, Cost Organization, and Budgets and Planning. The main content area is titled "Account Info" and contains sections for "Account details", "Account display settings - new", "Contact information", and "Alternate contacts". In the "Account details" section, the ARN is listed as arn:aws:account:072114058360:account. The "Contact information" section includes fields for Full name (MOHAMMAD ANAS AARIF BAIG MIRZA), Company name (Anasinaam), Phone number (+91 7517769519), Website URL (anasinaam.vercel.app), Address (Old Agra Road Deopur Dhule, Dhule, Maharashtra 424002, IN), and Security contact (None). At the bottom, there are links for English, Contact us, Support, and My account.

The screenshot shows the AWS Profile page. At the top, there's a header with the AWS logo, "Agentic AI", "Discover AWS", "Products", "Solutions", "Pricing", "Resources", a search bar, "Sign in to console", and a "Create account" button. Below the header, the title "AWS Profile" is displayed. A sub-header states "AWS Profile helps improve your interactions with select AWS experiences." with a "Learn more" link. The main content area is divided into two sections: "User information" and "Emails". The "User information" section shows First name: MOHAMMAD and Last name: ANAS, with an "Edit" button. The "Emails" section shows the "AWS Builder ID email" as mirzaanas937@gmail.com, with a "Personal" label. To the left of these sections is a sidebar with "Page topics" including User information, Emails, Interest & background information, Work information, Community profile, About profiles, Email preference center, and Builder ID privacy & data.

The screenshot shows the AWS Management Console search results for the term "cloud9". The search bar at the top contains "cloud9". The results are categorized under "Services" and "Features".

Services

- Cloud9**: A Cloud IDE for Writing, Running, and Debugging Code.
- Amazon CodeCatalyst**: Integrated DevOps Service.
- AWS Cloud Map**: Build a dynamic map of your cloud.

Features

- Namespaces**: AWS Cloud Map feature.
- Cloud WAN**: VPC feature.

At the bottom left, there's a feedback section asking "Were these results helpful?" with "Yes" and "No" buttons. At the bottom right, there's a link to "Go to my Applications". The footer includes links for "CloudShell", "Feedback", "© 2025, Amazon Web Services, Inc. or its affiliates.", "Privacy", "Terms", and "Cookie preferences".

The screenshot shows an AWS blog post titled "How to migrate from AWS Cloud9 to AWS IDE Toolkits or AWS CloudShell".

Header: English ▾ Contact us Support ▾ My account ▾ Create Account

Breadcrumbs: AWS Blogs Home Blogs ▾ Editions ▾

Section Headers:

- How to migrate from AWS Cloud9 to AWS IDE Toolkits or AWS CloudShell**
- Resources**
- Follow**

Content Summary:

by Rodney Bozo | on 25 JUL 2024 | in Announcements, AWS CLI, AWS Cloud9, AWS CloudShell, Developer Tools, DevOps, Intermediate (200) | Permalink | Share

After careful consideration, we have made the decision to close new customer access to AWS Cloud9, effective July 25, 2024. AWS Cloud9 existing customers can continue to use the service as normal. AWS continues to invest in security, availability, and performance improvements for AWS Cloud9, but we do not plan to introduce new features.

Building with AWS requires you to interact with and manipulate your AWS resources, whether it's to manage infrastructure, deploy applications, or troubleshoot issues and many AWS customers use AWS Cloud9 to do so today. However, developers want the ability to work with AWS resources within their own integrated Development Environment (IDE) because it allows them to streamline their workflows and leverage familiar tools. Other customers still want the security and flexibility of working with their resources in the AWS Management Console, but with quicker access and portability across different pages. In this blog, we will discuss two solutions, the AWS IDE Toolkits and AWS CloudShell, and why you may want to migrate from AWS Cloud9 to one of these solutions.

Resources:

- AWS Developer Tools Blog
- AWS Frontend Web & Mobile Blog
- AWS Developers YouTube
- Amazon Q Developer
- AWS CDK
- AWS CloudFormation
- AWS CodePipeline
- AWS CodeBuild

Follow:

- AWS .NET on Twitter

The screenshot shows the AWS Cloud9 homepage. At the top, there are several tabs: AWS Console - Signup, AWS Free Tier, AWS Account, Workbench, and Welcome to AWS Cloud9. The main content area features the AWS Cloud9 logo and the tagline "A cloud IDE for writing, running, and debugging code". Below this, a section titled "How it works" explains that AWS Cloud9 allows you to write, run, and debug your code with just a browser. It mentions immediate access to a rich code editor, integrated debugger, and built-in terminal with preconfigured AWS CLI. To the right, a sidebar titled "Getting started" lists several sections with their respective reading times: Before you start (2 min read), Create a environment (3 min read), Working with environments (15 min read), and Working with the IDE (10 min read). A prominent orange button labeled "Create environment" is located in the top right of the main content area.

The screenshot shows the "Name environment" step of the AWS Cloud9 environment creation wizard. The URL in the address bar is console.aws.amazon.com/cloud9/home/create. The page title is "Step 1: Create an environment". On the left, a sidebar shows navigation steps: Step 1 Name environment (selected), Step 2 Configure settings, and Step 3 Review. The main form is titled "Environment name and description". It contains two fields: "Name" (with placeholder text "The name needs to be unique per user. You can update it at any time in your environment settings.") and "Description" (with placeholder text "This will appear on your environment's card in your dashboard. You can update it at any time in your environment settings."). Both fields have character limits of 60 and 200 respectively. At the bottom of the form are "Cancel" and "Next step" buttons. The footer includes standard AWS links: Feedback, English (US), Privacy Policy, and Terms of Use.

AWS Console - Signup | AWS Free Tier | AWS Account | Workbench | Create a new environment | Step 1: Create an environment | - | X

console.aws.amazon.com/cloud9/home/create

Services ▾

Step 2: Configure settings

Step 3: Review

Environment settings

Environment type info

Run your environment in a new EC2 instance or an existing server. With EC2 instances, you can connect directly through Secure Shell (SSH) or connect via AWS Systems Manager (without opening inbound ports).

Create a new EC2 instance for environment (direct access)

Launch a new instance in this region that your environment can access directly via SSH.

Create a new no-ingress EC2 instance for environment (access via Systems Manager)

Launch a new instance in this region that your environment can access through Systems Manager.

Create and run in remote server (SSH connection)

Configure the secure connection to the remote server for your environment.

Instance type

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-sized web projects.

m3.large (8 GiB RAM + 2 vCPU)

Recommended for production and general-purpose development.

Other instance type

Select an instance type:

t3.nano

Platform

Amazon Linux

Amazon Linux 2 (recommended)

Ubuntu Server 18.04 LTS

Cost-saving setting

Choose a predetermined amount of time to auto-hibernate your environment and prevent unnecessary charges. We recommend a hibernation setting of half an hour of no activity to maximize savings.

After 30 minutes (default)

IAM role

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](#)

Feedback English (US) ▾

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AWS Console - Signup | AWS Free Tier | AWS Account | Workbench | Create a new environment | Step 1: Create an environment | - | X

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Network settings (advanced)

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel Previous step Next step

Feedback English (US) ▾

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AWS Console - Signup | AWS Free Tier | AWS Account | Workbench | Create a new environment | Step 1: Create an environment | - | + | X

console.aws.amazon.com/cloud9/home/create

Configure settings

Step 3 Review

Environment name and settings

Name: my-demo-environment

Description: This environment is for the AWS Cloud9 tutorial.

Environment type: EC2

Instance type: t2.micro

Subnet:

Platform: Ubuntu Server 18.04 LTS

Cost-saving settings: After 30 minutes (default)

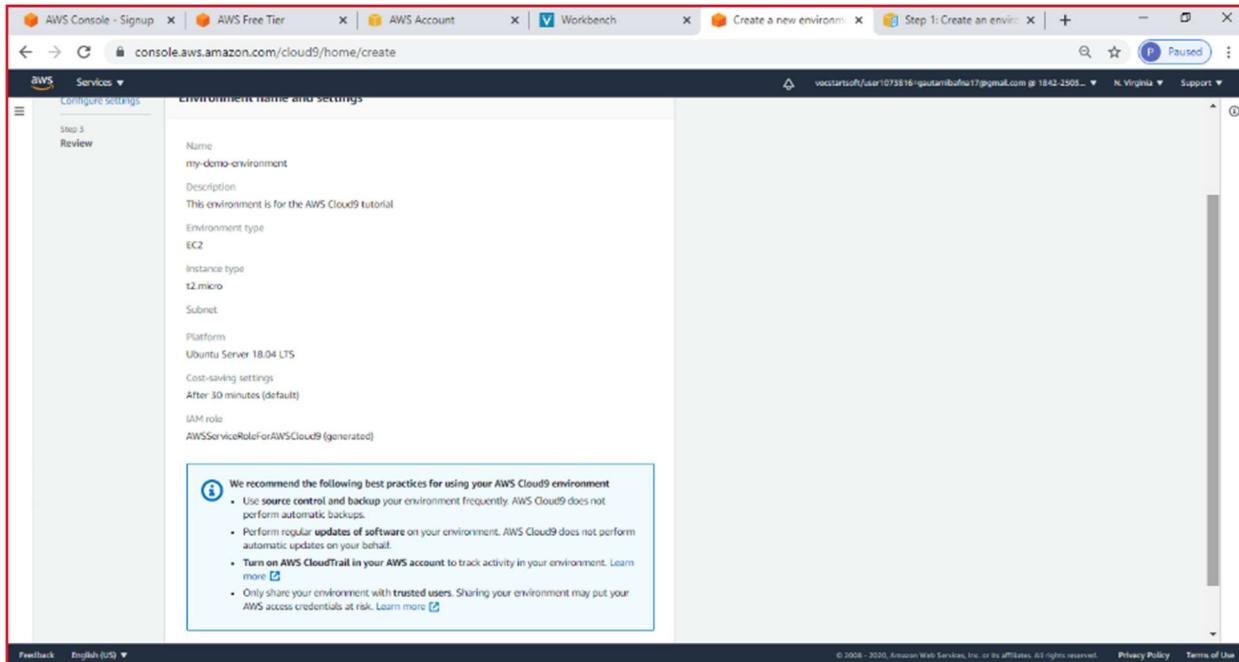
IAM role: AWSServiceRoleForAWSCloud9 (generated)

We recommend the following best practices for using your AWS Cloud9 environment

- Use source control and backup your environment frequently. AWS Cloud9 does not perform automatic backups.
- Perform regular updates of software on your environment. AWS Cloud9 does not perform automatic updates on your behalf.
- Turn on AWS CloudTrail in your AWS account to track activity in your environment. Learn more [\[?\]](#)
- Only share your environment with trusted users. Sharing your environment may put your AWS access credentials at risk. Learn more [\[?\]](#)

Feedback English (US) ▾

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AWS Console - Signup | AWS Free Tier | AWS Account | Workbench | my-demo-environment | Step 1: Create an environment | - | + | X

console.aws.amazon.com/cloud9/ide/36fcb3b49ac94de9bf1fd9e1f07bf052

Welcome to your development environment

AWS Cloud9

AWS Cloud9 allows you to write, run, and debug your code with just a browser. You can use the IDE to write code for AWS services and Amazon Web Services Lambda, share your IDE with others in real time, and much more.

Developer Tools

my-demo-environment

AWS Cloud9 for AWS Lambda

AWS Lambda is a compute service that lets you run code without provisioning or managing servers. AWS Lambda executes your code only when needed and scales automatically, from a few requests per day to thousands per second.

Create Lambda Function... Import Lambda Function...

We are creating your AWS Cloud9 environment. This can take a few minutes.

Configure AWS Cloud9

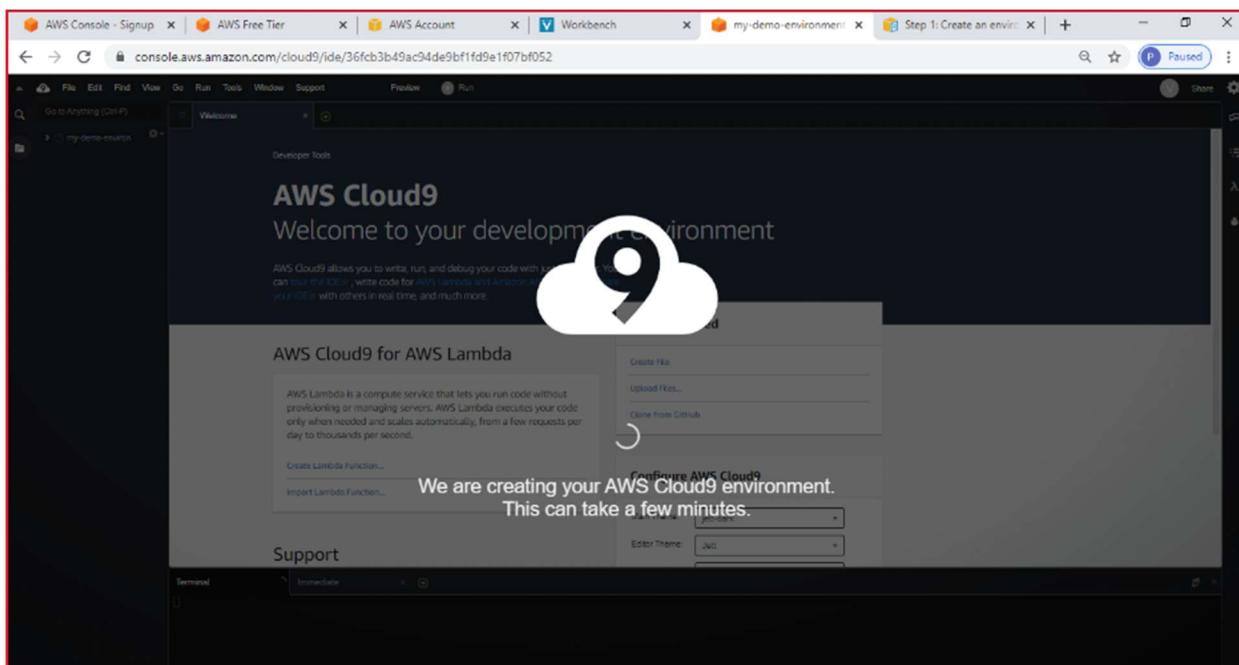
Create File... Upload Files... Clone from GitHub...

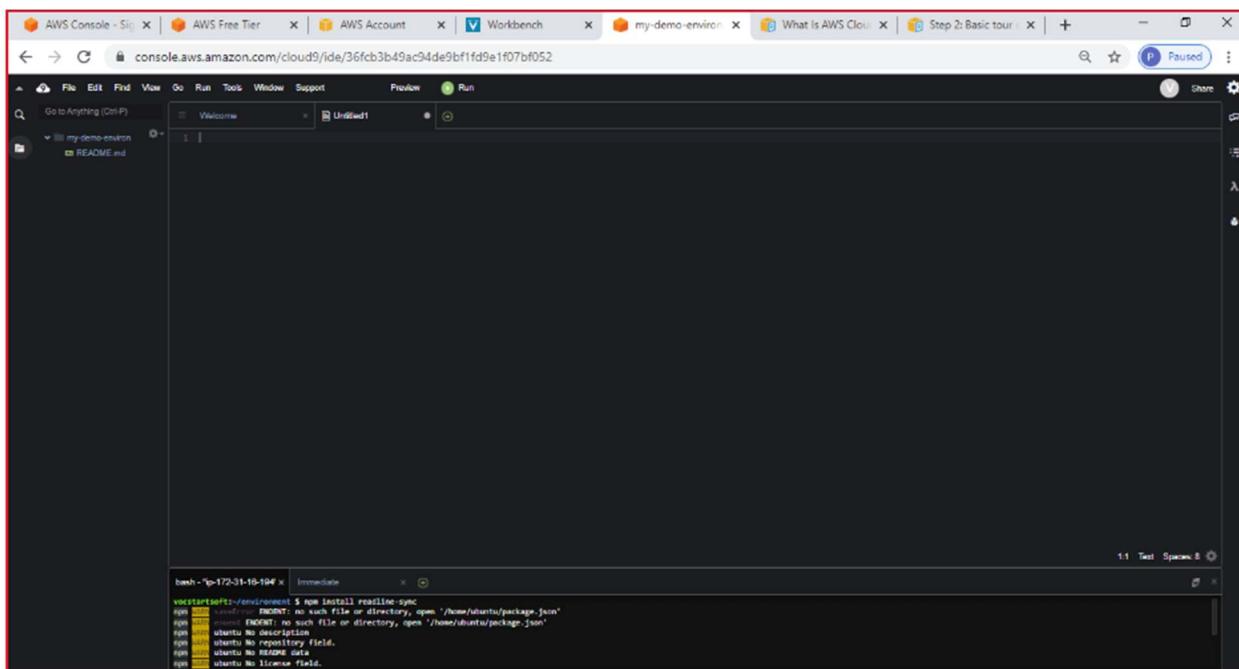
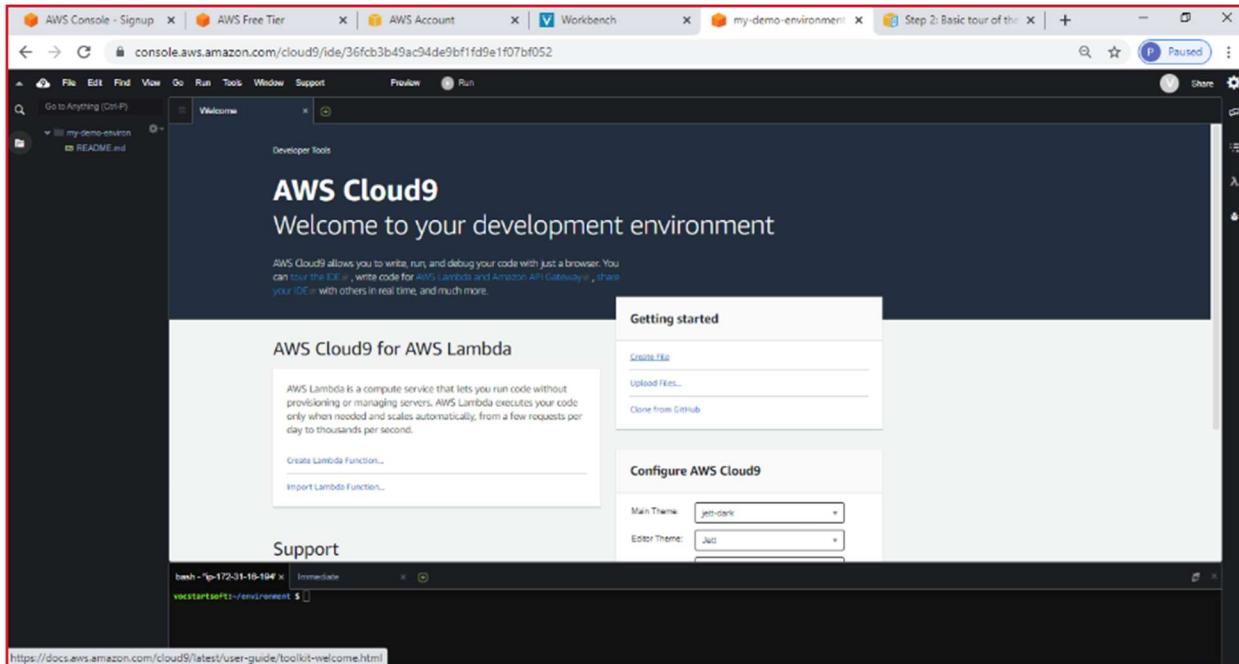
Editor Theme: Java

Support

Terminal

Immediate





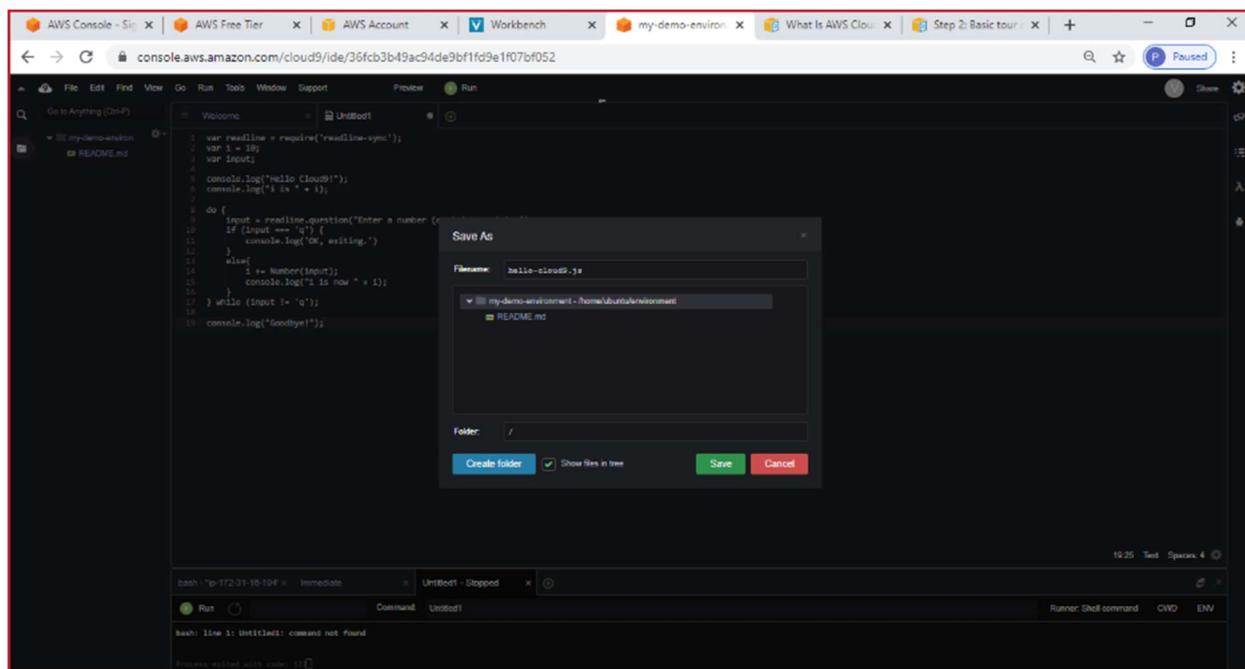
The screenshot shows the AWS Lambda Workbench interface. In the top navigation bar, tabs include AWS Console, AWS Free Tier, AWS Account, Workbench, my-demo-environment, What Is AWS Cloud9?, Step 2: Basic tour, and others. The main area displays a code editor with an 'Untitled1' file containing a Node.js script:

```
1 var readline = require('readline-sync');
2 var i = 0;
3 var input;
4
5 console.log("Hello Cloud9!");
6 console.log("i is " + i);
7
8 do {
9     input = readline.question("Enter a number (or 'q' to quit):");
10    if (input === 'q') {
11        console.log('Ok, exiting.')
12    }
13    else{
14        i += Number(input);
15        console.log("i is now " + i);
16    }
17 } while (input != 'q');
18
19 console.log("Goodbye!");
```

Below the code editor is a terminal window titled 'bash - Tp-172-31-16-194 x Immediate Untitled - Stopped'. It shows the command 'Run' selected. The output of the command is:

```
bash: line 1: Untitled1: command not found
```

The bottom status bar indicates 'Process exited with code: 127'.



The screenshot shows the AWS Lambda Cloud9 IDE interface. The top navigation bar includes tabs for AWS Console, AWS Free Tier, AWS Account, Workbench, Your environment, my-demo-environment, Step 3: Clean up, and a paused status indicator. The main workspace displays a file named 'hello-cloud9.js' with the following code:

```
1 var readline = require('readline-sync');
2 var i = 10;
3 var input;
4
5 console.log("Hello Cloud9!");
6 console.log("i is " + i);
7
8 do {
9     input = readline.question("Enter a number (or 'q' to quit): ");
10    if (input === 'q') {
11        console.log("OK, exiting.");
12    } else{
13        i = Number(input);
14        console.log("i is now " + i);
15    }
16 } while (input != 'q');
17
18 console.log("Goodbye!");
```

Below the code editor is a terminal window titled 'bash - [ip-172-31-15-104]'. It shows the output of the script execution:

```
Debugger attached.
Hello Cloud9!
i is 10
Enter a number (or 'q' to quit):
```

This screenshot shows the same AWS Lambda Cloud9 IDE interface, but with a different configuration. The terminal window now displays a different port and a debugger listening message:

```
Debugger listening on ws://127.0.0.1:5454/62e7430b-f57a-4c22-9415-2855fe8d895c
For help, see: https://nodejs.org/en/docs/inspector
Debugger attached.
Hello Cloud9!
```

The rest of the interface, including the code editor and toolbars, appears identical to the first screenshot.

AWS Cloud9

Your environments (1)

my-demo-environment

Type: EC2 Permissions: Owner

Description: This environment is for the AWS Cloud9 tutorial.

Owner Arn: arn:aws:sts::104225031553:assumed-role/vocstartsoft/User10738169ga

Open IDE

Open IDE

Open IDE

View details

Edit

Delete

Create environment

AWS Cloud9

Your environments (1)

my-demo-environment

Type: EC2 Permissions: Owner

Description: This environment is for the AWS Cloud9 tutorial.

Owner Arn: arn:aws:sts::104225031553:assumed-role/vocstartsoft/User10738169ga

Open IDE

Open IDE

Open IDE

View details

Edit

Delete

Create environment

Delete my-demo-environment

This environment will be deleted permanently, including all settings, associated user data, and uncommitted code. Are you sure you want to delete the following environment?

my-demo-environment

To remove this environment, type the phrase "Delete" into the field below, then press Delete.

Delete

Cancel

Delete

