

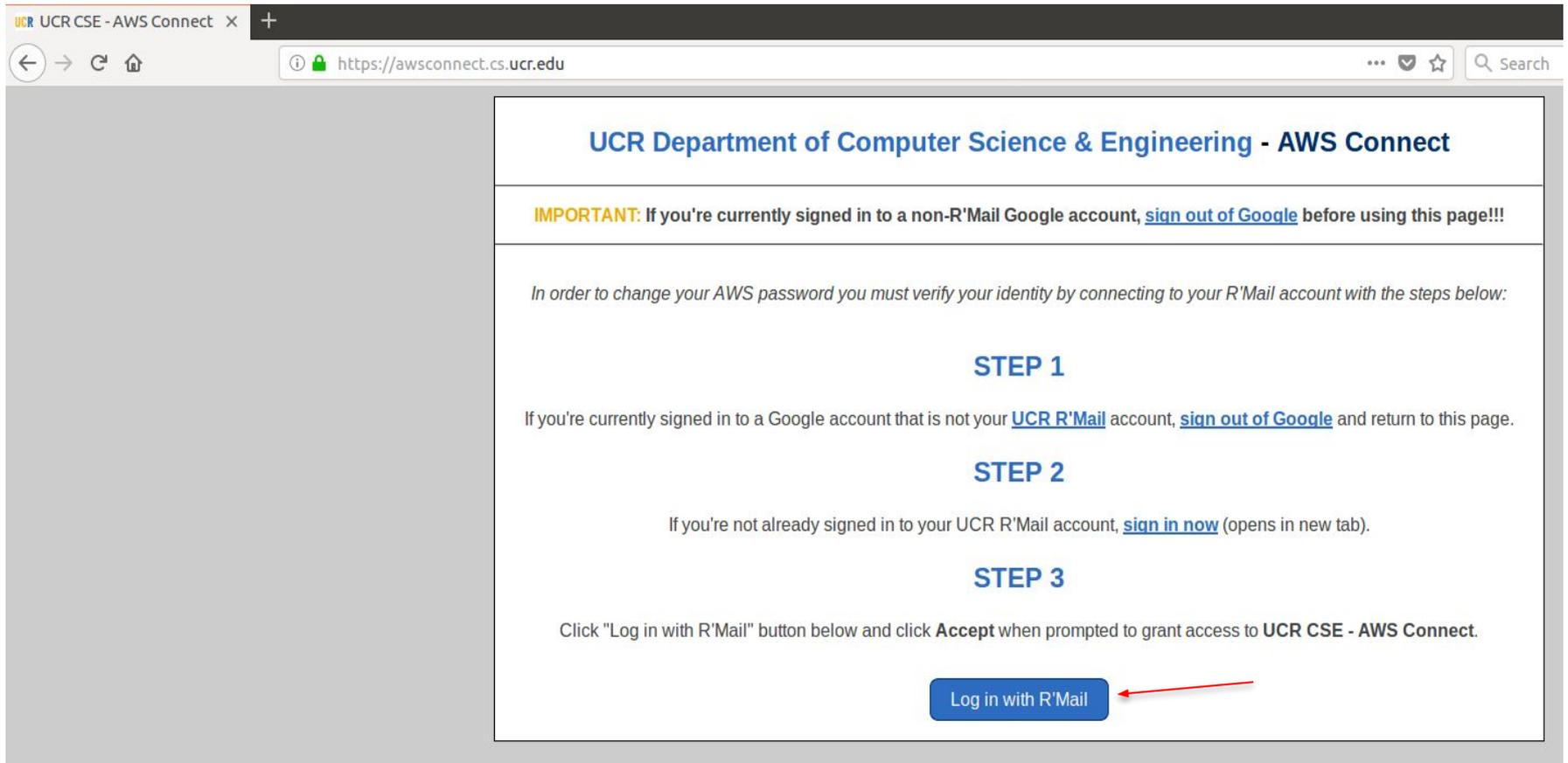
Amazon *W*eb *S*ervices

Getting started with *Cloud9* for CS8

Step 1 : Go to <https://awsconnect.cs.ucr.edu>

- This link works **ONLY** from any UCR IP address, including the wireless network. Therefore, you have to physically be on the campus and within the UCR network. It is not going to work if you are outside UCR.

Step 2 : Click on “Log in with R’Mail”



UCR UCR CSE - AWS Connect x +

https://awsconnect.cs.ucr.edu

UCR Department of Computer Science & Engineering - AWS Connect

IMPORTANT: If you're currently signed in to a non-R'Mail Google account, [sign out of Google](#) before using this page!!!

In order to change your AWS password you must verify your identity by connecting to your R'Mail account with the steps below:

STEP 1

If you're currently signed in to a Google account that is not your [UCR R'Mail](#) account, [sign out of Google](#) and return to this page.

STEP 2

If you're not already signed in to your UCR R'Mail account, [sign in now](#) (opens in new tab).

STEP 3

Click "Log in with R'Mail" button below and click **Accept** when prompted to grant access to **UCR CSE - AWS Connect**.

[Log in with R'Mail](#)

Step 3 : After successfully logging in, enter your password, then click on “Set AWS password ...”

Note: Your password must:

1. be 8 - 32 characters in length
2. contain at least one lowercase letter [a-z]
3. one uppercase letter [A-Z]
4. one number [0-9]
5. one symbol [,/:~!@#&%^*()+={ }]

UCR Department of Computer Science & Engineering - AWS Connect

Email address **aalma021@ucr.edu** is associated with AWS login **aalma021**

STEP 1

Verify that the email address above is your UCR R'Mail account. If it is not, [sign out of Google](#) before proceeding!

STEP 2

Verify that the AWS login above is your AWS username. If it is not, [sign out of Google](#) before proceeding!

STEP 3

If the email address above is your UCR R'Mail account, please enter your new AWS password below:

Password: Confirm Password:

(must be 8 - 32 characters and contain at least one lowercase letter, one uppercase letter, one number, and one symbol [,/:~!@#&%^*()+={ }])

If **aalma021@ucr.edu** is not your UCR R'Mail account, please click "Sign Out of Google".

Step 4 : You should get this message after successfully resetting your password for AWS

UCR Department of Computer Science & Engineering - AWS Connect

AWS password change successful!

Please allow up to 5 minutes for your change to take effect (please do not change it again during this time).

! As a security precaution we've logged you out of "UCR CSE - AWS Connect" and signed you out of Google. !

If logged in as a TA, please close the browser now!

Step 5 : Go to <https://959097940486.signin.aws.amazon.com/console>



Do NOT change this Account ID

Account ID or alias

959097940486

Enter your UCR NetID.

Example: aalma021@ucr.edu

UCR NetID: aalma021

IAM user name

|

Password

Sign In

[Sign-in using root account credentials](#)

The password you just
created in Step 3

AWS Database Migration Service

Over 60,000 Databases Migrated

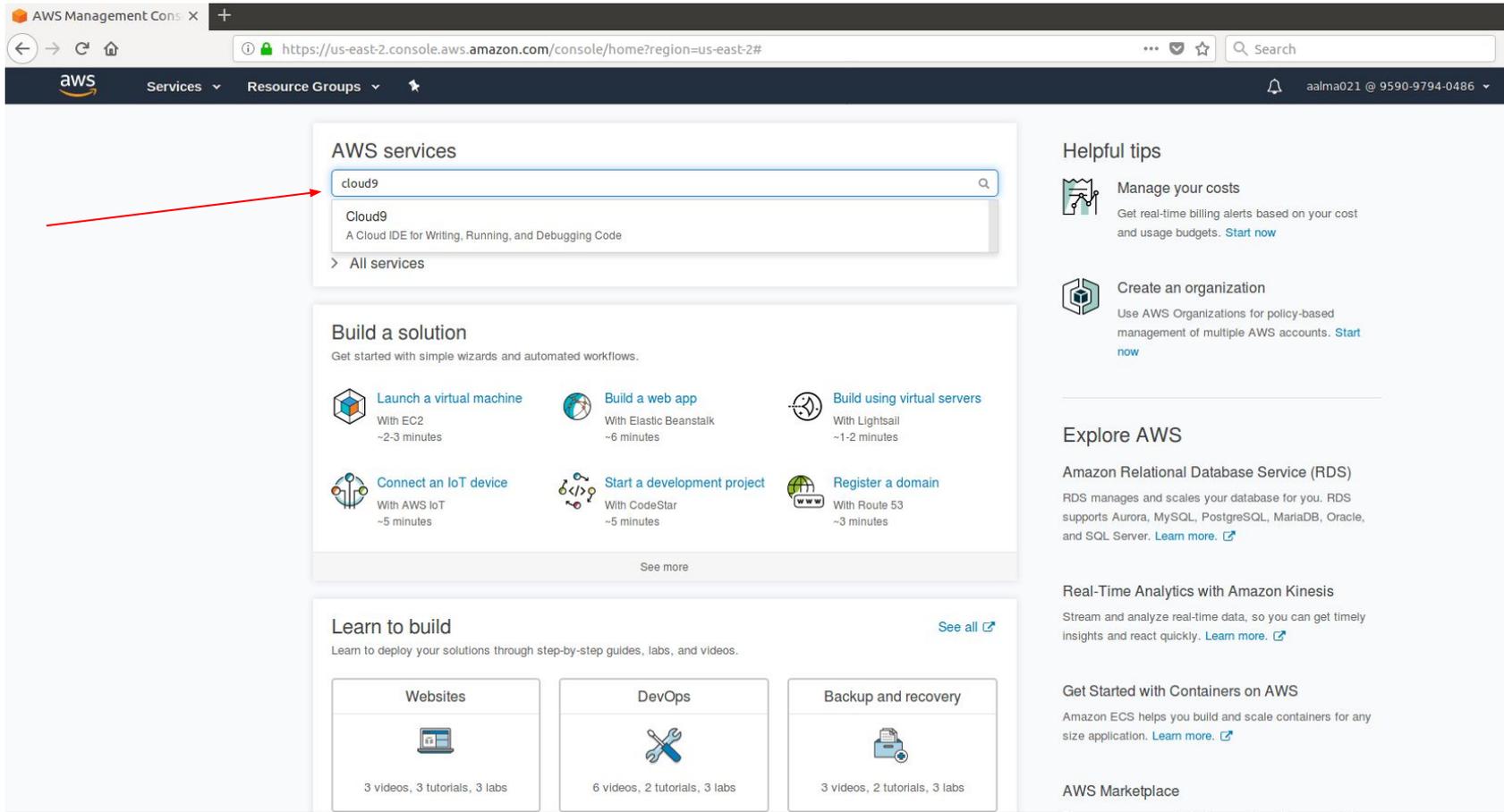
Easily migrate and convert databases

[Learn more](#)

The banner features a dark blue background with a light blue diagonal stripe. It includes icons of database cylinders and a globe, with dotted lines connecting them to represent data migration.

English ▾

Step 6 : Type “Cloud9” in the textbox, then click on it



The screenshot shows the AWS Management Console interface. At the top, the browser address bar displays the URL: `https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2#`. The navigation bar includes the AWS logo, 'Services', and 'Resource Groups'. A search bar is located in the top right corner.

The main content area is divided into several sections:

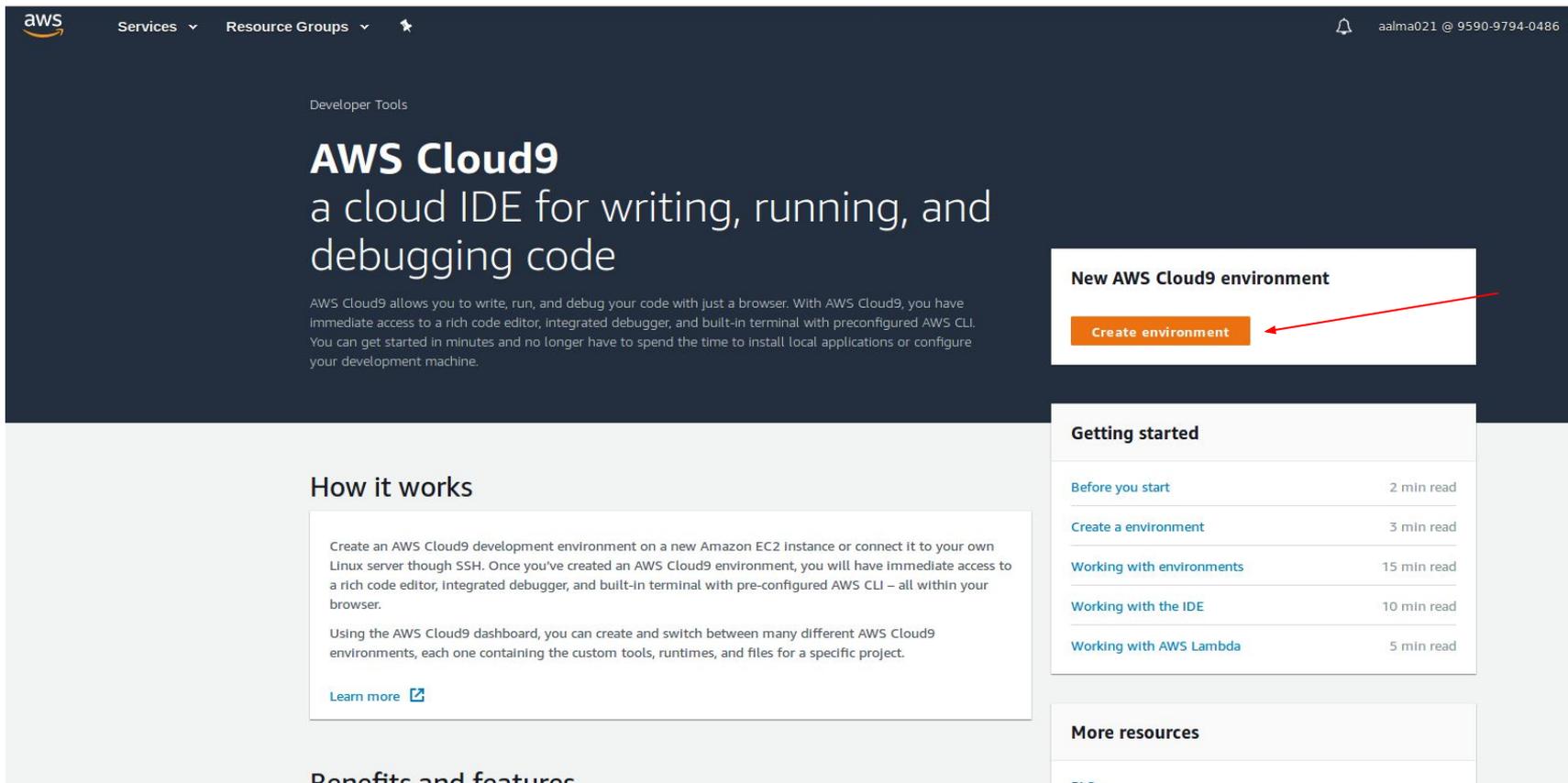
- AWS services:** A search box contains the text 'cloud9'. Below it, a dropdown menu shows 'Cloud9' with the description 'A Cloud IDE for Writing, Running, and Debugging Code'. A red arrow points to the search box.
- Build a solution:** A section titled 'Build a solution' with the subtitle 'Get started with simple wizards and automated workflows.' It features six cards for different solutions:
 - Launch a virtual machine:** With EC2, ~2-3 minutes.
 - Build a web app:** With Elastic Beanstalk, ~6 minutes.
 - Build using virtual servers:** With Lightsail, ~1-2 minutes.
 - Connect an IoT device:** With AWS IoT, ~5 minutes.
 - Start a development project:** With CodeStar, ~5 minutes.
 - Register a domain:** With Route 53, ~3 minutes.A 'See more' link is at the bottom of this section.
- Learn to build:** A section titled 'Learn to build' with the subtitle 'Learn to deploy your solutions through step-by-step guides, labs, and videos.' It features three cards:
 - Websites:** 3 videos, 3 tutorials, 3 labs.
 - DevOps:** 6 videos, 2 tutorials, 3 labs.
 - Backup and recovery:** 3 videos, 2 tutorials, 3 labs.A 'See all' link is at the top right of this section.

On the right side of the console, there are 'Helpful tips' and 'Explore AWS' sections:

- Helpful tips:** Includes 'Manage your costs' (Get real-time billing alerts based on your cost and usage budgets. [Start now](#)) and 'Create an organization' (Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)).
- Explore AWS:** Includes 'Amazon Relational Database Service (RDS)' (RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. [Learn more.](#)) and 'Real-Time Analytics with Amazon Kinesis' (Stream and analyze real-time data, so you can get timely insights and react quickly. [Learn more.](#)).

At the bottom right, there are links for 'Get Started with Containers on AWS' (Amazon ECS helps you build and scale containers for any size application. [Learn more.](#)) and 'AWS Marketplace'.

Step 7 : Click on “Create environment”



The screenshot shows the AWS Cloud9 console interface. At the top, there is a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a user profile 'aalma021 @ 9590-9794-0486'. The main content area has a dark blue header with the text 'Developer Tools' and 'AWS Cloud9 a cloud IDE for writing, running, and debugging code'. Below this, a paragraph describes the service. A white box on the right contains the heading 'New AWS Cloud9 environment' and an orange 'Create environment' button, which is pointed to by a red arrow. Below this, a 'Getting started' section lists links like 'Before you start', 'Create a environment', 'Working with environments', 'Working with the IDE', and 'Working with AWS Lambda'. At the bottom, there is a 'More resources' section.

aws Services Resource Groups

Developer Tools

AWS Cloud9

a cloud IDE for writing, running, and debugging code

AWS Cloud9 allows you to write, run, and debug your code with just a browser. With AWS Cloud9, you have immediate access to a rich code editor, integrated debugger, and built-in terminal with preconfigured AWS CLI. You can get started in minutes and no longer have to spend the time to install local applications or configure your development machine.

New AWS Cloud9 environment

[Create environment](#)

Getting started

Before you start	2 min read
Create a environment	3 min read
Working with environments	15 min read
Working with the IDE	10 min read
Working with AWS Lambda	5 min read

More resources

Step 8 : Type your UCR ID as the name of your Environment (i.e. “861000000”), then click on “Next Step”

It should be
your UCR ID

The screenshot shows the AWS Cloud9 console interface for creating a new environment. The breadcrumb navigation indicates the path: AWS Cloud9 > Environments > Create environment. On the left, a progress sidebar shows three steps: Step 1 (Name environment), Step 2 (Configure settings), and Step 3 (Review). The main content area is titled 'Name environment' and contains a form for 'Environment name and description'. The 'Name' field is a text input containing '86xxxxxx', with a note below it stating 'The name needs to be unique per user. You can update it at any time in your environment settings.' and a 'Limit: 60 characters' warning. Below the name field is a 'Description - Optional' section with a text area containing the placeholder 'Write a short description for your environment' and a 'Limit: 200 characters' warning. At the bottom right of the form, there are two buttons: 'Cancel' and 'Next step'. A red arrow points from the text 'It should be your UCR ID' to the 'Name' input field, and another red arrow points from the 'Next step' button to the right.

Step 9 : Keep the default settings and click on “Next step”

aws Services Resource Groups

AWS Cloud9 > Environments > Create environment

Step 1
Name environment

Step 2
Configure settings

Step 3
Review

Configure settings

Environment settings

Environment type [Info](#)
Choose between creating a new EC2 instance for your new environment or connecting directly to your server over SSH.

- Create a new instance for environment (EC2)**
Launch a new instance in this region to run your new environment.
- Connect and run in remote server (SSH)**
Display instructions to connect remotely over SSH and run your new environment.

Instance type

- t2.micro (1 GiB RAM + 1 vCPU)**
Free-tier eligible. Ideal for educational users and exploration.
- t2.small (2 GiB RAM + 1 vCPU)**
Recommended for small-sized web projects.
- m4.large (8 GiB RAM + 2 vCPU)**
Recommended for production and general-purpose development.
- Other instance type**
Select an instance type.
t2.nano

Cost-saving setting
Choose a predetermined amount of time to auto-hibernate your environment and prevent unnecessary charges. We recommend a hibernation settings 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](#)

AWSServiceRoleForAWSCloud9

► **Network settings (advanced)**

Cancel Previous step **Next step**

Step 10 : Click on “Create environment”

The screenshot shows the AWS Cloud9 console interface during the 'Review' step of creating an environment. The top navigation bar includes the AWS logo, 'Services', and 'Resource Groups'. A left sidebar lists the steps: 'Step 1 Name environment', 'Step 2 Configure settings', and 'Step 3 Review'. The main content area is titled 'Review' and 'Environment name and settings'. It displays the following configuration details:

- Name: 86XXXXXX
- Description: No description provided
- Environment type: EC2
- Instance type: t2.micro
- Subnet: subnet-9cb17df4
- Cost-saving settings: After 30 minutes (default)
- IAM role: AWSServiceRoleForAWSCloud9 (generated)

A light blue information box contains the following text and list:

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](#)

At the bottom of the console, there are three buttons: 'Cancel', 'Previous step', and 'Create environment'. A red arrow points to the 'Create environment' button.

Step 11 : Your AWS Cloud9 account is ready

The screenshot displays the AWS Cloud9 IDE interface. At the top, a menu bar includes 'AWS Cloud9', 'File', 'Edit', 'Find', 'View', 'Goto', 'Run', 'Tools', 'Window', and 'Support'. A 'Preview' button and a 'Run' button are also visible. On the left, a sidebar contains 'Environment' (showing 'CSB Labs' and 'README.md'), 'Navigate', and 'Commands'. The main workspace features a dark header with 'Developer Tools' and the text 'AWS Cloud9 Welcome to your development environment'. Below this, a section titled 'AWS Cloud9 for AWS Lambda' provides information about the service and includes buttons for 'Create Lambda Function...' and 'Import Lambda Function...'. A 'Support' section offers guidance on where to find help. On the right, a 'Getting started' panel lists actions like 'Create File', 'Open File...', 'Upload Files...', and 'Clone Git Repository'. Below that, a 'Configure AWS Cloud9' panel allows users to select themes and keyboard modes. At the bottom, a terminal window shows a 'bash' prompt in the 'aa1na021:~/environment' directory.

Step 12 : Go to [LearnCS8.com](https://www.learnCS8.com) and get started with lab 1

<Learn CS8>

Lab 1

Basic HTML and CSS
Web Programming



Lab 2

Advanced HTML and
CSS Web Programming



Lab 3

Drop Down Navigation and
Multipage Website Design



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<Learn CS8>

Lab 1

Basic HTML and CSS
Web Programming



Lab 2

Advanced HTML and
CSS Web Programming



Lab 3

Drop Down Navigation and
Multipage Website Design



Final Notes: Save these two links since you will need them for the entire quarter.

- 1) <https://959097940486.signin.aws.amazon.com/console>
- 2) <http://learncs8.com/>

The first link is the AWS (i.e. Cloud 9) login page while the second link is for the labs instructions.

These links can be accessed from anywhere. You do NOT have to be at UCR.

