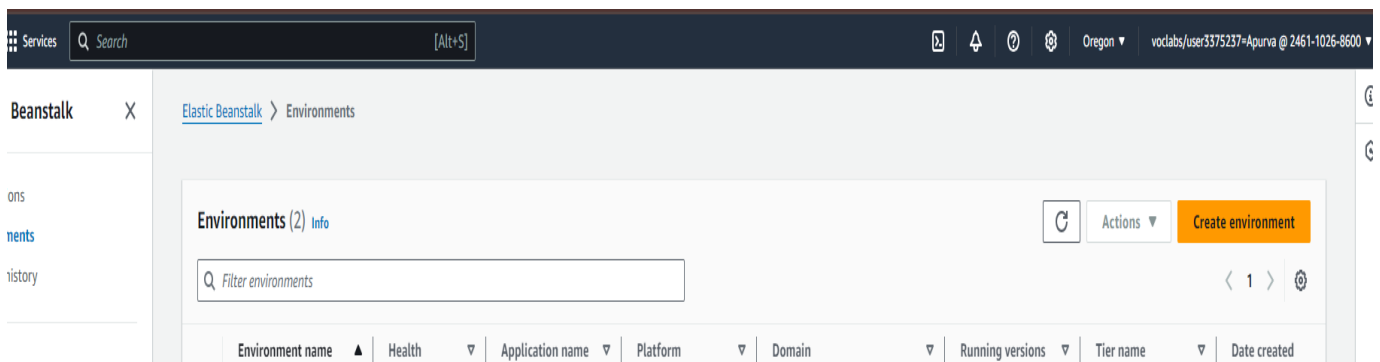


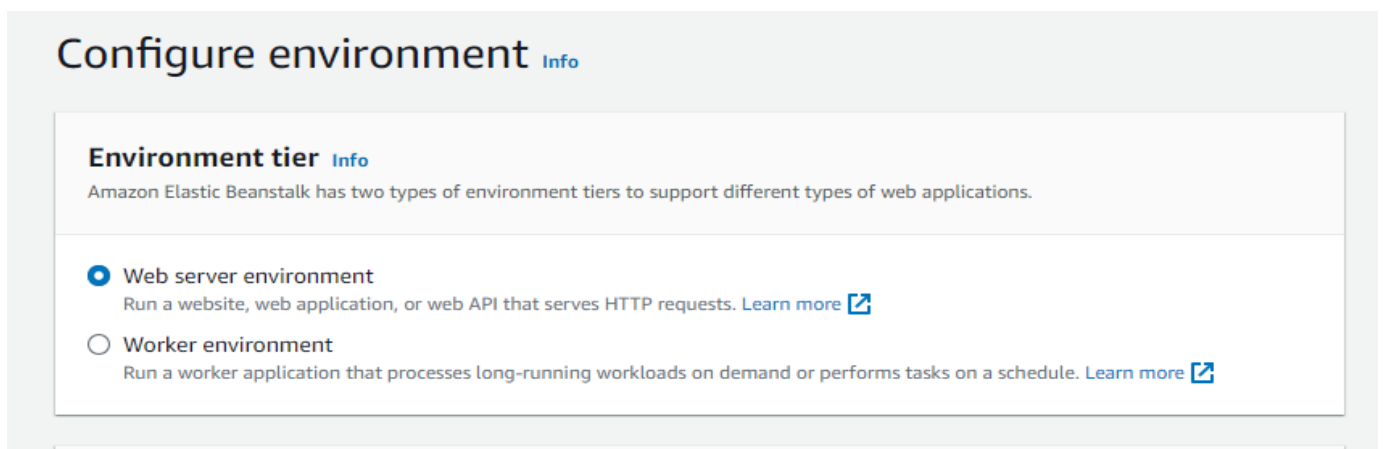
CLOUD COMPUTING PRACTICAL ASSIGNMENT NO:9 WORKING AND IMPLEMENTATION OF PLATFORM AS A SERVICE.

AWS Elastic Beanstalk: Use this tool to upload sample code for web apps. (AWS handles the deployment, provisioning and load balancing Prepare Screen shots file and also write down the steps. Make single word or PDF file .

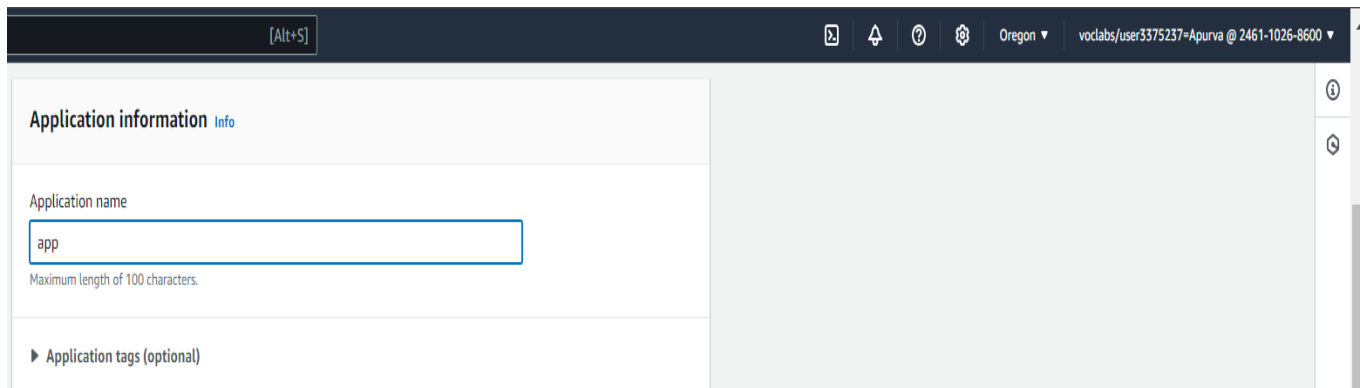
Step I : go to Elastic Beanstalk, in environment click on Create environment.



Step II : then in environment tier, select Web server environment.

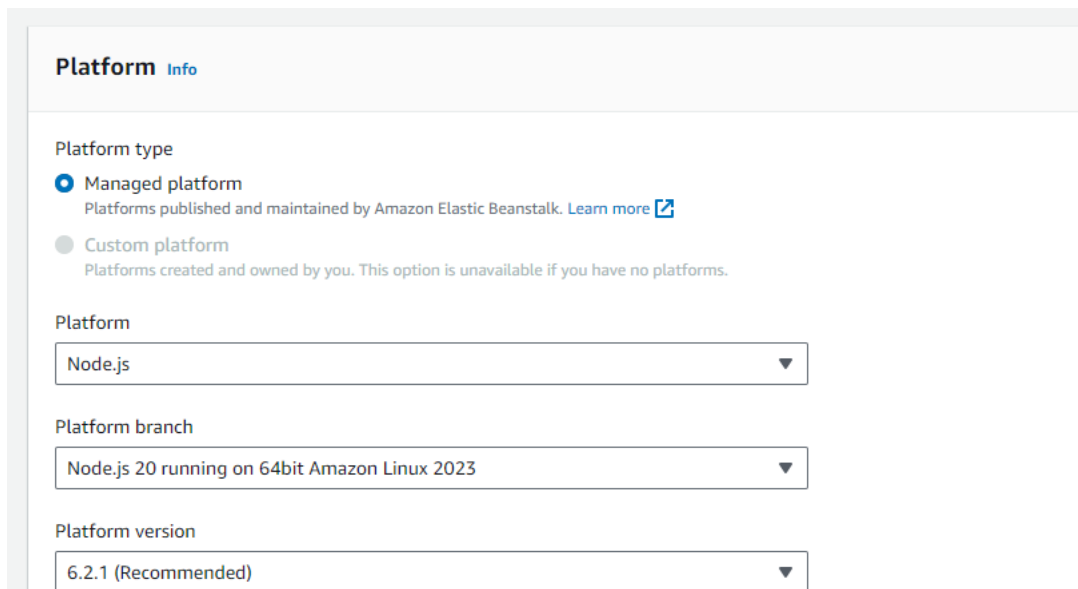


Step III: In application information, give application name.



The screenshot shows the 'Application information' section of the AWS IAM console. The 'Application name' field is highlighted with a blue border and contains the text 'app'. Below the field, it says 'Maximum length of 100 characters.' There is also a section for 'Application tags (optional)' which is currently collapsed. The top navigation bar shows the user is logged in as 'voclabs/user3375237=Apurva @ 2461-1026-8600' in the 'Oregon' region.

Step IV: In platform, select the Managed platform type in platform select Node.js platform and keep as it is.



The screenshot shows the 'Platform' section of the AWS IAM console. The 'Platform type' is set to 'Managed platform' (indicated by a blue radio button). Below it, there is a description: 'Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)'. The 'Platform' dropdown menu is set to 'Node.js'. The 'Platform branch' dropdown menu is set to 'Node.js 20 running on 64bit Amazon Linux 2023'. The 'Platform version' dropdown menu is set to '6.2.1 (Recommended)'. There is also a section for 'Custom platform' which is currently unselected.

Step V: then select Sample application and in presets select Single Instance.

Presets [Info](#)

Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.

Configuration presets

- ☒ Single instance (free tier eligible)
- ☐ Single instance (using spot instance)
- ☐ High availability
- ☐ High availability (using spot and on-demand instances)
- ☐ Custom configuration

[Cancel](#) [Next](#)

Step VI: select the key-pair, lab-role and k lab-instance profile in Configure service access then click next.

[Alt+S] [Info](#) Oregon voclabs/user3375237~Apurva @ 2461-1026-860

Configure service access [Info](#)

Service access

IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. [Learn more](#)

Service role

- ☐ Create and use new service role
- ☒ Use an existing service role

Existing service roles

Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM managed policies.

LabRole [Refresh](#)

EC2 key pair

Select an EC2 key pair to securely log in to your EC2 instances. [Learn more](#)

Kanha [Refresh](#)

EC2 instance profile

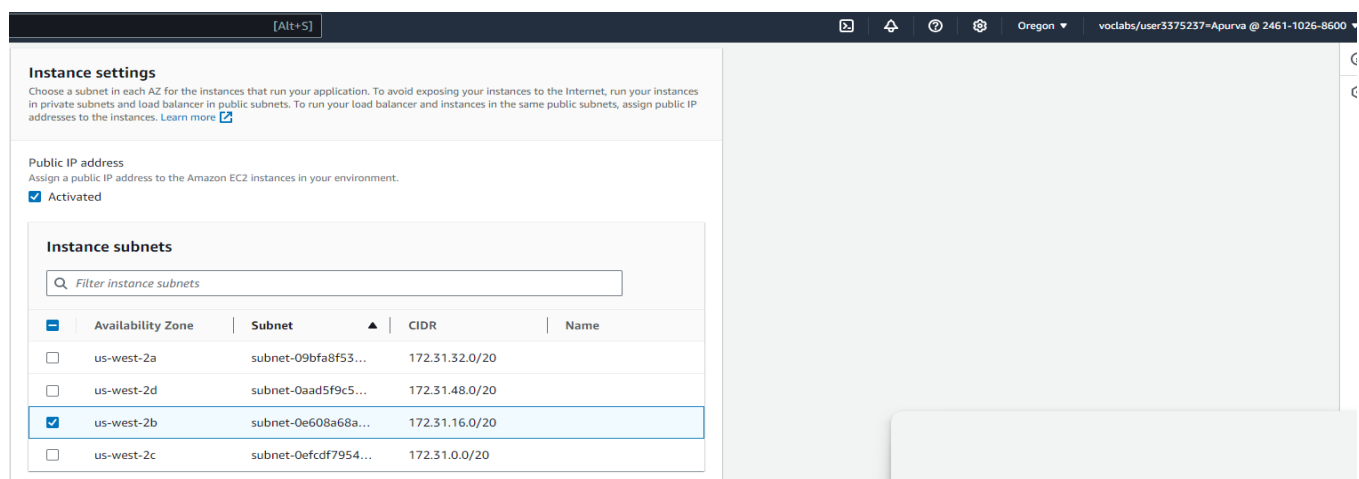
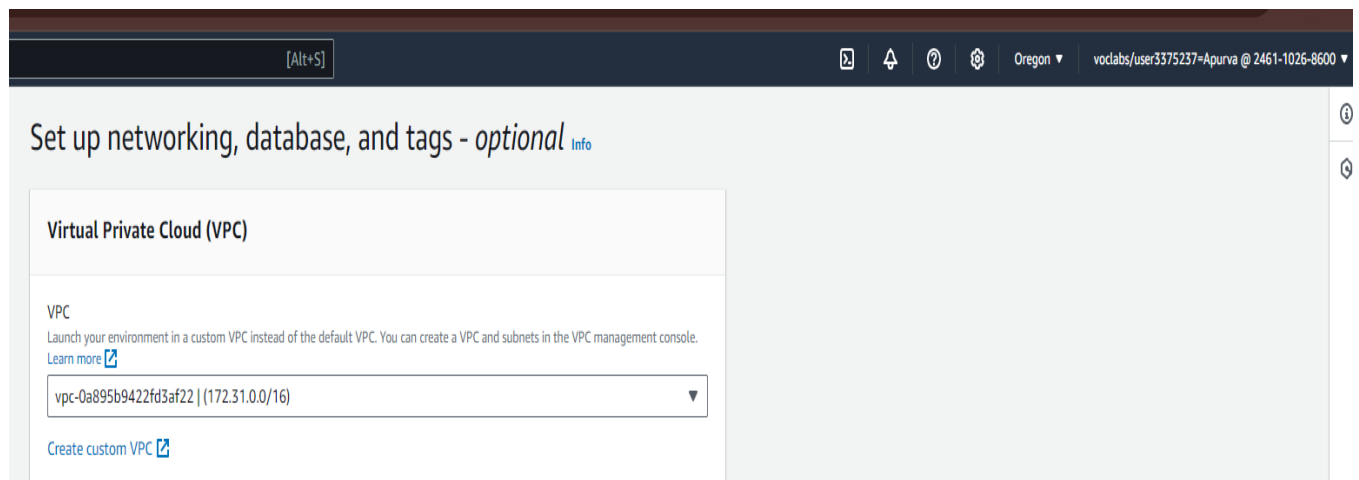
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.

LabInstanceProfile [Refresh](#)

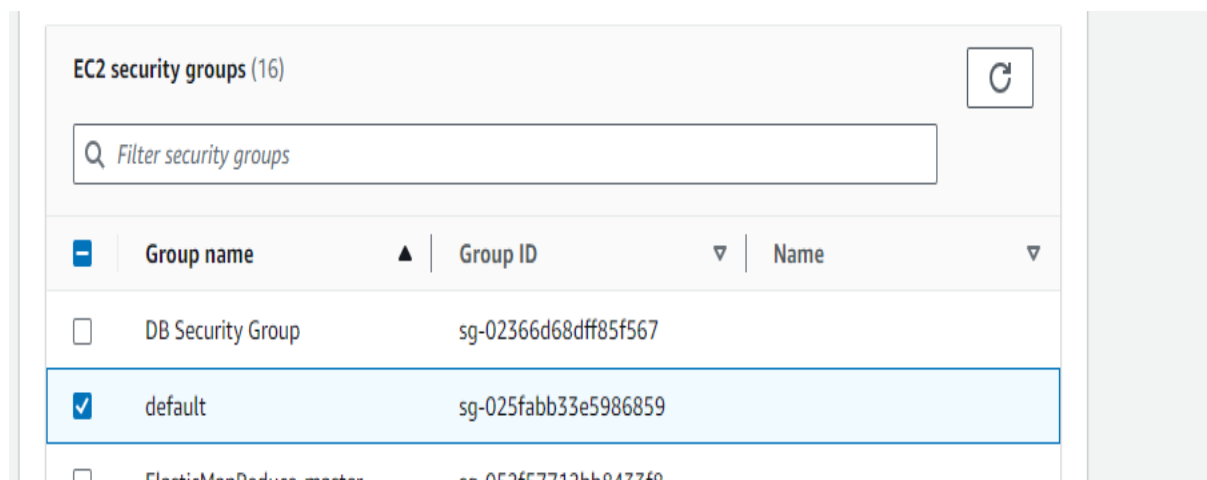
[View permission details](#)

[Cancel](#) [Skip to review](#) [Previous](#) [Next](#)

Step VII: then select vpc, in instance setting public ip tick Activated. and in Instance subnet ,select any subnet then keep as it is and click on next.



Step VIII: then select default security group and in instance type t2.micro then click next.



▼ **Capacity** [Info](#)

Configure the compute capacity of your environment and auto scaling settings to optimize the number of instances used.

Auto scaling group

Environment type

Select a single-instance or load-balanced environment. You can develop and test an application in a single-instance environment to save costs and then upgrade to a load-balanced environment when the application is ready for production. [Learn more](#)

Single instance ▼

Instances

1

Min

1

Max

Fleet composition

Spot instances are launched at the lowest available price. [Learn more](#)

☒ On-Demand instance
 ☐ Spot instance

tools and libraries.

Instance types

Add instance types for your fleet. Change the order that the instances are in to set the preferred launch order. This only affects On-Demand instances. We recommend you include at least two instance types. [Learn more](#)

Choose x86 instance types ▼

t2.micro ✕

Step IX: then in Monitoring, Health reporting Select the Basic System .

[Alt+S]

Oregon ▼
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Configure updates, monitoring, and logging - *optional* [Info](#)

▼ **Monitoring** [Info](#)

Health reporting

Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The **EnvironmentHealth** custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see [Amazon CloudWatch Pricing](#)

System

☒ Basic
 ☐ Enhanced

Step X: then in Managed platform updates untick the Activated Managed update.

▼ Managed platform updates [Info](#)

Activate managed platform updates to apply platform updates automatically during a weekly maintenance window that you choose. Your application stays available during the update process.

Managed updates

☐ Activated

Weekly update window

Tuesday ▼ at 21 ▼ : 38 ▼ UTC

Update level

Minor and patch ▼

Step X: then click on next and click on submit button.

Step XI: then wait for health is green once it done then click on dns and see the node.js page.

[Alt+S]

Oregon ▼ vocabs/user3375237=Apurva @ 2461-1026-8600 ▼

Elastic Beanstalk > Environments > App-env

App-env [Info](#)

Actions ▼ Upload and deploy

Environment overview

Health
⚪ Grey

Environment ID
e-yvhr3nidgz

Domain
-

Application name
app

Platform

Change version

Platform
Node.js 20 running on 64bit Amazon Linux 2023/6.2.1

Running version
-

Platform state
✔ Supported

[Alt+S]

Oregon ▼ vocabs/user3375237=Apurva @ 2461-1026-8600 ▼

Elastic Beanstalk > Environments > App-env

App-env [Info](#)

Actions ▼ Upload and deploy

Environment overview

Health
✔ Green

Environment ID
e-yvhr3nidgz

Domain
[App-env-eba-ndxmmqwk.us-west-2.elasticbeanstalk.com](#)

Application name
app

Platform

Change version

Platform
Node.js 20 running on 64bit Amazon Linux 2023/6.2.1

Running version
-

Platform state
✔ Supported

