



## **PARSHVANATH CHARITABLE TRUSTS**

**A.P. Shah Institute of Technology  
Thane, 400615**

**Academic Year: 2023-24 Department of Computer Engineering**

**CSL605 SKILL BASED LAB**

**COURSE: CLOUD COMPUTING**

**Mini Project Report**

- Title of Project : VAIDYA**
- Year and Semester : T.E. (Sem VI)**
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## **Abstract**

Ayurveda, revered as one of the oldest traditional systems of medicine globally, continues to harbor ancient wisdom yet to be fully explored. This traditional healing system holds immense potential for herbal drug discovery, especially when integrated with knowledge from other traditional systems of medicine (TSMs). However, the lack of understanding regarding the differences and similarities between the theoretical doctrines of these systems poses a significant obstacle to their convergence. This review aims to elucidate the age-old history and fundamental principles of Ayurveda, shedding light on its timeless wisdom. By providing a comprehensive understanding of Ayurveda's foundational principles, this review seeks to empower scholars, researchers, and practitioners in gaining deeper insights into traditional systems of medicine. Furthermore, it aims to facilitate the identification of commonalities among TSMs and overcome challenges towards their global acceptance and harmonization. Through the convergence of knowledge and collaboration, traditional systems of medicine can pave the way for innovative approaches to herbal drug discovery and contribute to the advancement of global healthcare.

## **Introduction**

Ayurveda, often hailed as one of the most renowned traditional systems of medicine, has stood the test of time, thriving across ages and continents. Rooted in the profound wisdom of nature-based medicine, Ayurveda encompasses a holistic understanding of the human body's constitution and its intricate relationship with the elements of the universe. This ancient healing system recognizes the interconnectedness of all living beings and emphasizes the harmony between mind, body, and spirit for optimal health and well-being.

Central to Ayurveda's philosophy is the concept of Prakriti, or individual body constitution, which is determined by the unique combination of the three fundamental energies or doshas: Vata, Pitta, and Kapha. These doshas govern various physiological and psychological functions within the body and are influenced by factors such as diet, lifestyle, environment, and genetics. By understanding one's Prakriti and addressing imbalances in the doshas, Ayurveda seeks to restore harmony and promote health through personalized treatments and preventive measures.

Throughout its rich history, Ayurveda has evolved through centuries of empirical observations, experimentation, and refinement. Its knowledge base encompasses a vast array of herbal remedies, dietary guidelines, lifestyle practices, and therapeutic modalities aimed at restoring balance and preventing disease. From traditional herbal formulations to specialized therapeutic treatments like Panchakarma, Ayurveda offers a comprehensive approach to healing that addresses the root causes of illness while fostering vitality and longevity.

In this review, we endeavor to illuminate the foundational principles and historical underpinnings of Ayurveda, shedding light on its timeless wisdom and relevance in the contemporary world. By exploring Ayurveda's core doctrines and tracing its historical trajectory, we aim to contribute to a deeper understanding of this ancient healing tradition and its potential for enriching global healthcare practices. Through collaborative efforts and a commitment to preserving and nurturing traditional systems of medicine, we envision a future where Ayurveda continues to flourish, offering invaluable insights into holistic health and well-being for generations to come.

## **Problem Definition**

The accessibility and reliability of information on Ayurvedic remedies have become increasingly problematic in recent years, posing significant risks to users' health and wellbeing. Despite the growing popularity of Ayurveda as a complementary and alternative medicine system, the internet lacks dependable sources that offer accurate and comprehensive information on Ayurvedic treatments. This dearth of reliable resources often results in the incorrect usage of remedies, leading to potential harm and adverse effects on users.

The absence of standardized information exacerbates the situation, fostering a climate of misinformation and misunderstandings surrounding Ayurvedic practices. Without access to trustworthy guidance, individuals may resort to self-diagnosis and improper self-medication, further compounding health risks and complications.

Moreover, the manufacturing and distribution of Ayurvedic medicines face significant challenges in standardization and quality control. The lack of uniformity in manufacturing processes and product quality raises serious concerns about the safety and efficacy of Ayurvedic remedies available in the market. Consumers encounter difficulties in discerning authentic products from counterfeit or adulterated ones, exposing themselves to potential harm and adverse health outcomes.

In light of these pressing issues, there is an urgent need for a comprehensive online platform dedicated to addressing the challenges surrounding Ayurvedic remedies. Such a platform must serve as a beacon of authenticity and reliability, offering detailed insights into the benefits, usage, and potential side effects of various Ayurvedic treatments. Additionally, it should function as a trusted resource for consumers seeking guidance on the safe and effective use of Ayurvedic medicines, empowering them to make informed decisions about their health and well-being.

## **Objectives and Scope**

### **Objective:**

- The website can be used to provide information on Ayurvedic homemade remedies, their
- Benefits, and their uses.
- The objective of Ayurveda is to help individuals achieve optimal health and wellness by
- creating balance and harmony within their body, mind, and spirit.
- This is achieved through a personalized approach to health that takes into account an
- individual's unique physical, mental, emotional, and spiritual characteristics.
- Providing accurate and comprehensive information on Ayurvedic remedies.
- Educating users about the proper usage and potential side effects of Ayurvedic treatments.
- Advocating for standardization and quality control in the manufacturing process.
- Empowering consumers to make informed decisions about their health and wellbeing.
- Bridging the gap between traditional Ayurvedic knowledge and modern scientific research.

### **Scope:**

- **Paradigm Shift:** Ayurveda has experienced a considerable shift in its paradigm in recent decades.
- **Integration of Modern Analytical Techniques:** There is a trend towards integrating modern analytical techniques with Ayurvedic principles.
- **Wider Acceptance:** The aim is to enhance the acceptance of Ayurveda on a global scale.
- **Proving Scientific Basis:** There is an increasing emphasis on proving the scientific basis of Ayurvedic principles.
- **Preservation of Tradition:** The objective is to preserve Ayurveda as a living tradition.

### **Description**

Vaidya is your go-to place for all things Ayurveda – the ancient Indian system of natural healing. We're here to help you understand Ayurveda's basics and how they can make your life healthier and happier. **Learn Your Ayurvedic Type:** Ayurveda says we're all made up of different combinations of energies called doshas. Vaidya helps you figure out your dosha type so you can make choices that suit you best.



Facing Modern Challenges: Ayurveda has been around for ages, but it's facing new challenges today. Vaidya talks about these issues and how we're working to make sure Ayurvedic treatments are safe and reliable for everyone.

Empowering Wellness: Our goal is to help you take charge of your health using Ayurveda. Whether you want to ease aches and pains or just feel better overall, Vaidya gives you the tools and info you need to make smart choices.

Looking Ahead: Ayurveda is getting more popular worldwide, and we're excited to be part of it. At Vaidya, we're all about blending ancient wisdom with modern knowledge for a healthier future.

Start Your Ayurvedic Journey with Vaidya – Your Friendly Guide to a Balanced Life.

**Cloud Service Used:** We use Amazon Web Services (AWS) Elastic Compute Cloud (EC2) to keep the website running smoothly. It's like renting a powerful computer in the sky to make sure our website is always available for you.

**Methodologies Used:** We work in small steps to make the website better, just like how you take small steps to stay healthy every day. We listen to your feedback and make changes to make sure you have the best experience.

**Software Requirements:** We use simple tools and languages to build the website, like HTML, CSS, and JavaScript for the design, and Node.js for the backend. It's like using Lego blocks to build something awesome!

By using AWS EC2, working in small steps, and using simple tools, "Vaidya" aims to make it easy for you to learn about Ayurveda and stay healthy in a fun and reliable way.

## Implementation Details with Screenshots Click on launch instance:

The screenshot displays the AWS Management Console for the EC2 service. The left-hand navigation pane shows various AWS services, with 'EC2' selected. The main content area is titled 'Resources' and shows a summary of EC2 resources in the 'us-east-1' region. Below this, the 'Launch instance' section is highlighted, featuring a prominent orange 'Launch instance' button. To the right of the 'Launch instance' button is a 'Migrate a server' button. The 'Service health' section indicates that the EC2 service is operating normally. The 'Zones' section lists available availability zones. The 'Instance alarms' section shows that there are no alarms currently configured. The 'Scheduled events' section shows that there are no scheduled events. On the right side of the console, the 'EC2 Free Tier' section is visible, showing that 3 free tier offers are in use. Below this, the 'Offer usage (monthly)' section shows the usage of free tier offers for Linux EC2 instances, Windows EC2 instances, and Storage space on EBS. The 'Account attributes' section shows the default VPC and the account's settings.

**Resources**

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Resource	Count
Instances (running)	0
Elastic IPs	0
Local Disks	0
Snapshots	0
Auto Scaling Groups	0
Instances	1
Placement groups	0
Volume	1
Dedicated Hosts	0
Key pairs	0
Security groups	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 US East (N. Virginia) Region.

**Service health**

Region: US East (N. Virginia) Status: [This service is operating normally](#)

**Zones**

Zone name	Zone ID
us-east-1a	us-east-1a
us-east-1b	us-east-1b
us-east-1c	us-east-1c
us-east-1d	us-east-1d
us-east-1e	us-east-1e
us-east-1f	us-east-1f

**Instance alarms**

[View in CloudWatch](#)

0 in alarm 0 OK 0 insufficient data

**Scheduled events**

[View in CloudWatch](#)

US East (N. Virginia)

No scheduled events

**EC2 Free Tier**

Offers for all AWS Regions

**3 EC2 free tier offers in use**

End of month forecast: 1 offers forecasted to exceed free tier limit. Forecasted Free tier: 0 offers forecasted and is more than you're getting. [View detailed EC2 resources](#)

**Offer usage (monthly)**

Linux EC2 instances: 147,000/17 hours remaining (9%)

Windows EC2 instances: 146,000/17 hours remaining (9%)

Storage space on EBS: 9.27 TB remaining (99%)

[View all 24% Free Tier offers](#)

**Account attributes**

[Default VPC](#)

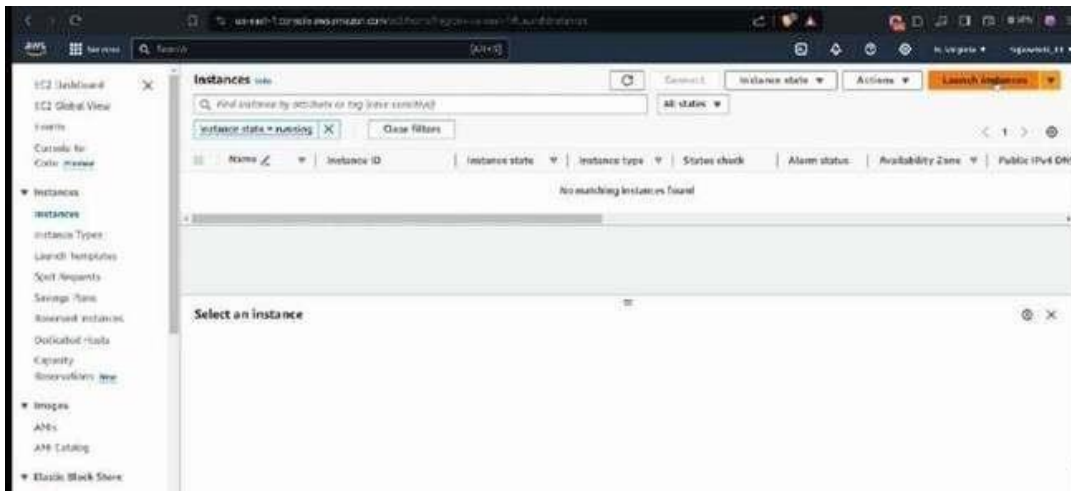
[View Account Attributes](#)

[Settings](#)

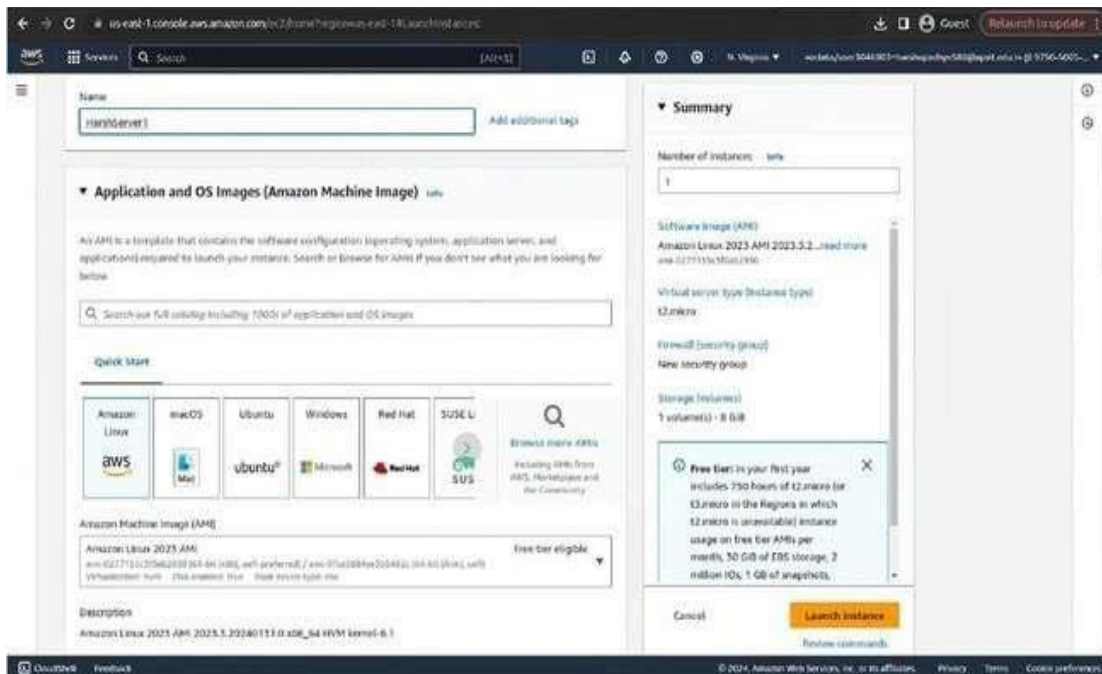
[State protection and security](#)

[Zones](#)

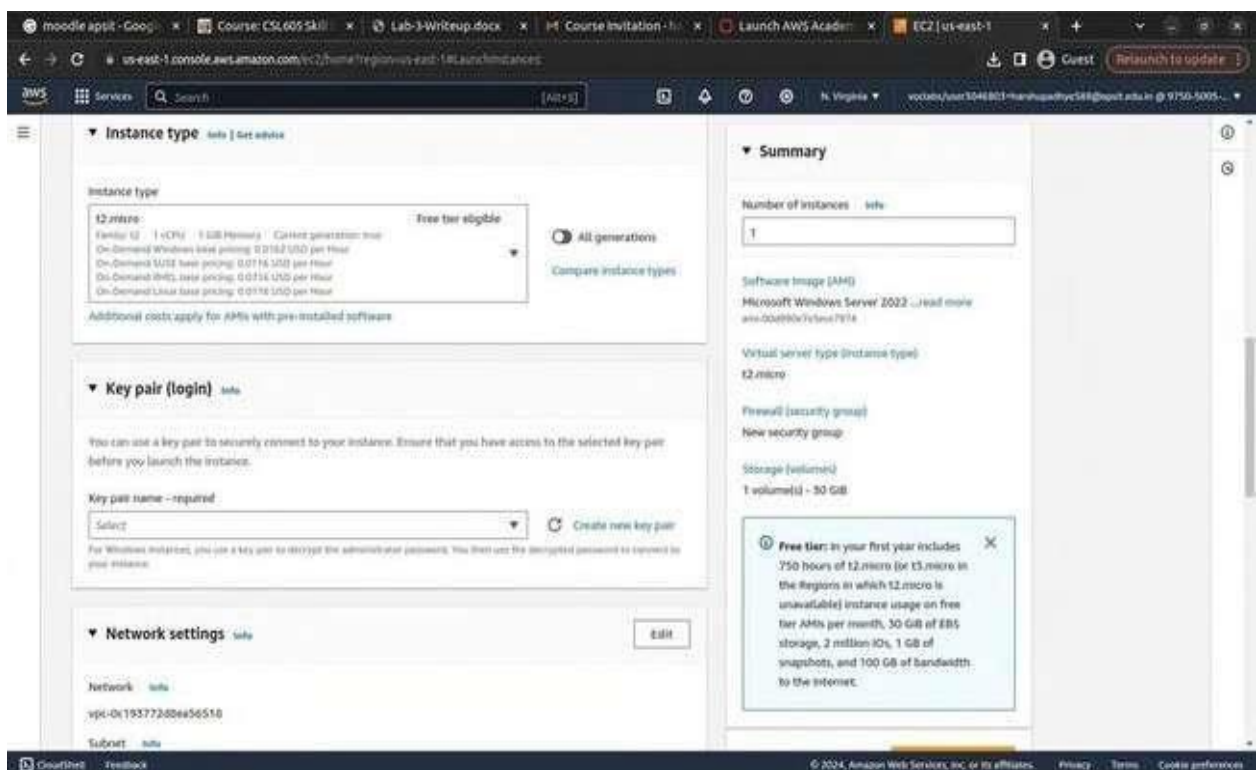
## Launch an instance:



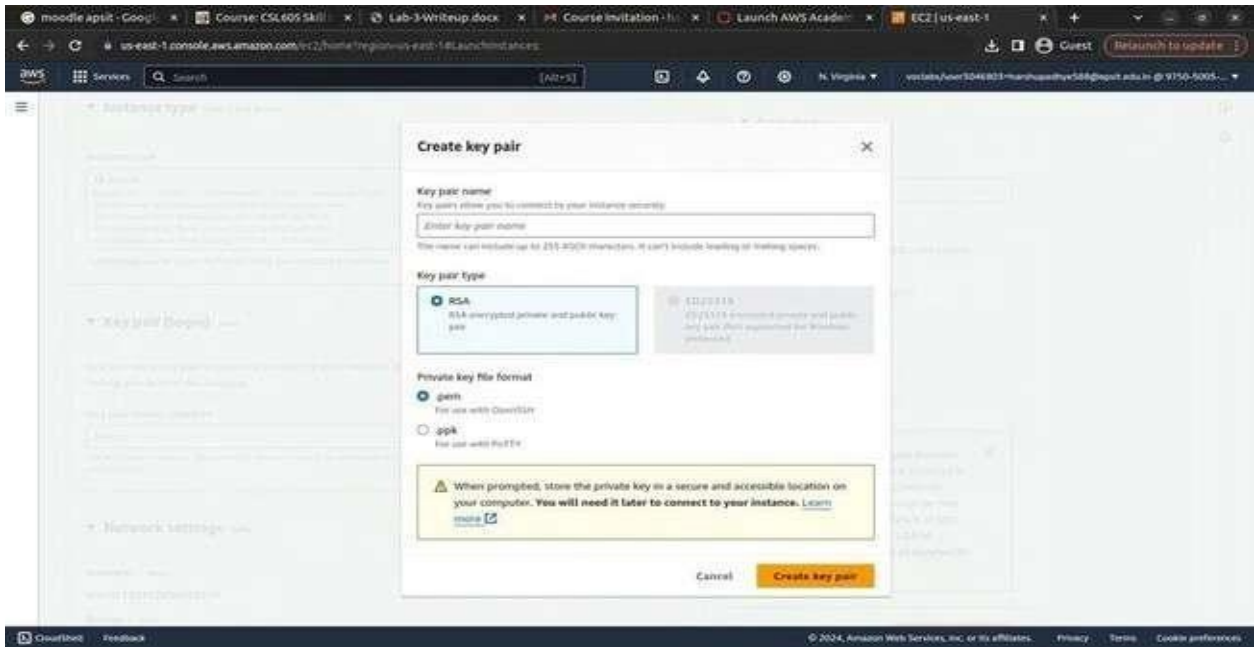
Scroll down and click on browse more AMIs and select Microsoft version



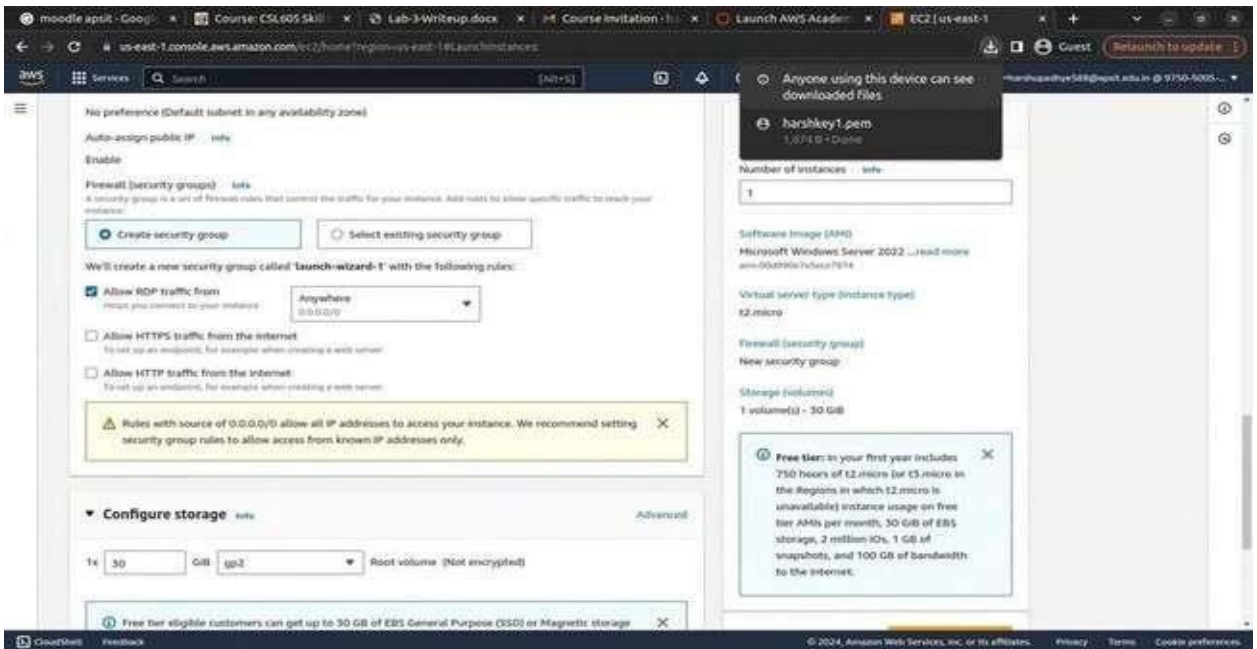
Select t2.micro for instance type:



Enter the key pair name and create key pair and download it:



Now click on the launch instance:



Now connect the instance with RDP client:

Instances (1) [Link](#)

Find instance by attribute or tag (name-sensitive)  Any state

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
HarshServer1	i-09a5655ee4b476c0c	Running	t2.micro	-	View alarms	us-east-1b	ec2-54-82-71-2...

Select an instance

Connect to instance [Link](#)

Connect to your instance i-09a5655ee4b476c0c (HarshServer1) using any of these options:

Session Manager RDP client EC2 serial console

Instance ID: i-09a5655ee4b476c0c (HarshServer1)

Connection Type

☒ Connect using RDP client  
Download a file to use with your RDP client and retrieve your password.

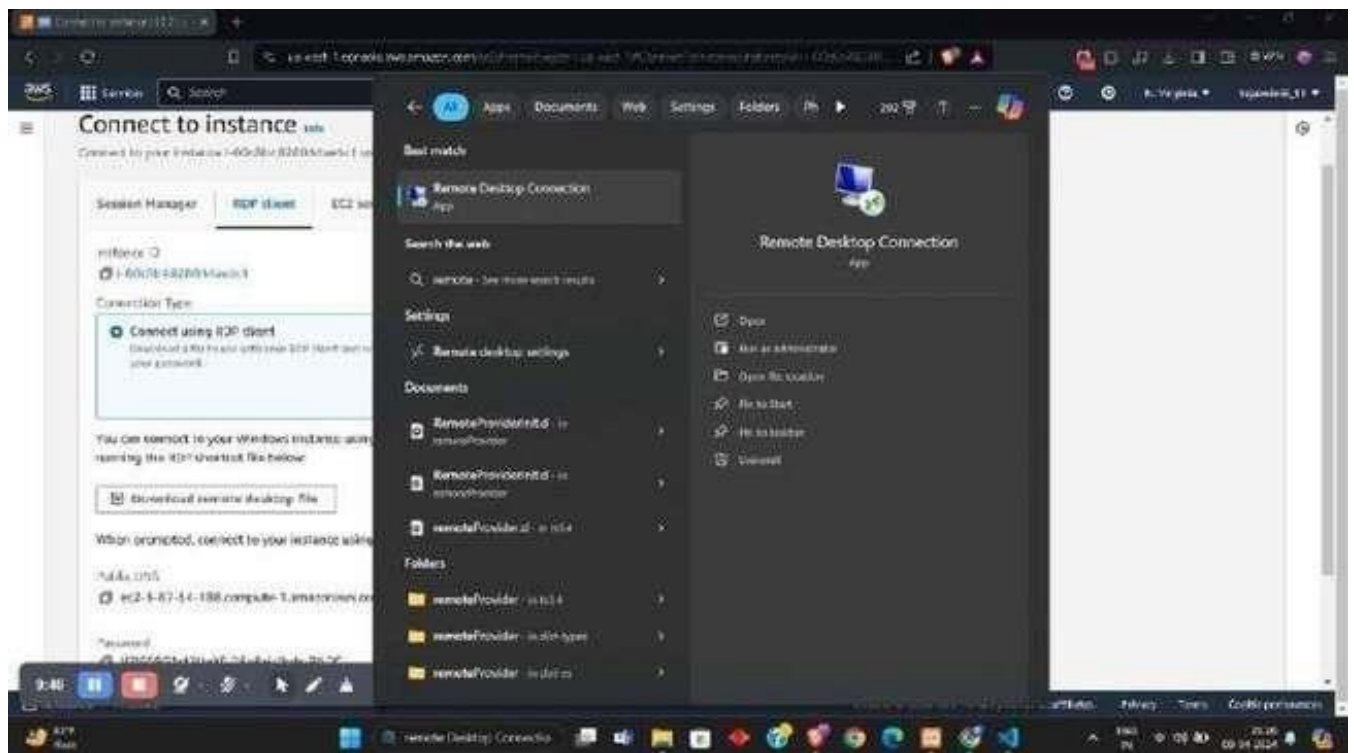
☐ Connect using Fleet Manager  
To connect to this instance using Fleet Manager Remote Desktop, the SSN Agent must be installed and running on the instance. For more information, see [Working with SSN Agent](#).

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

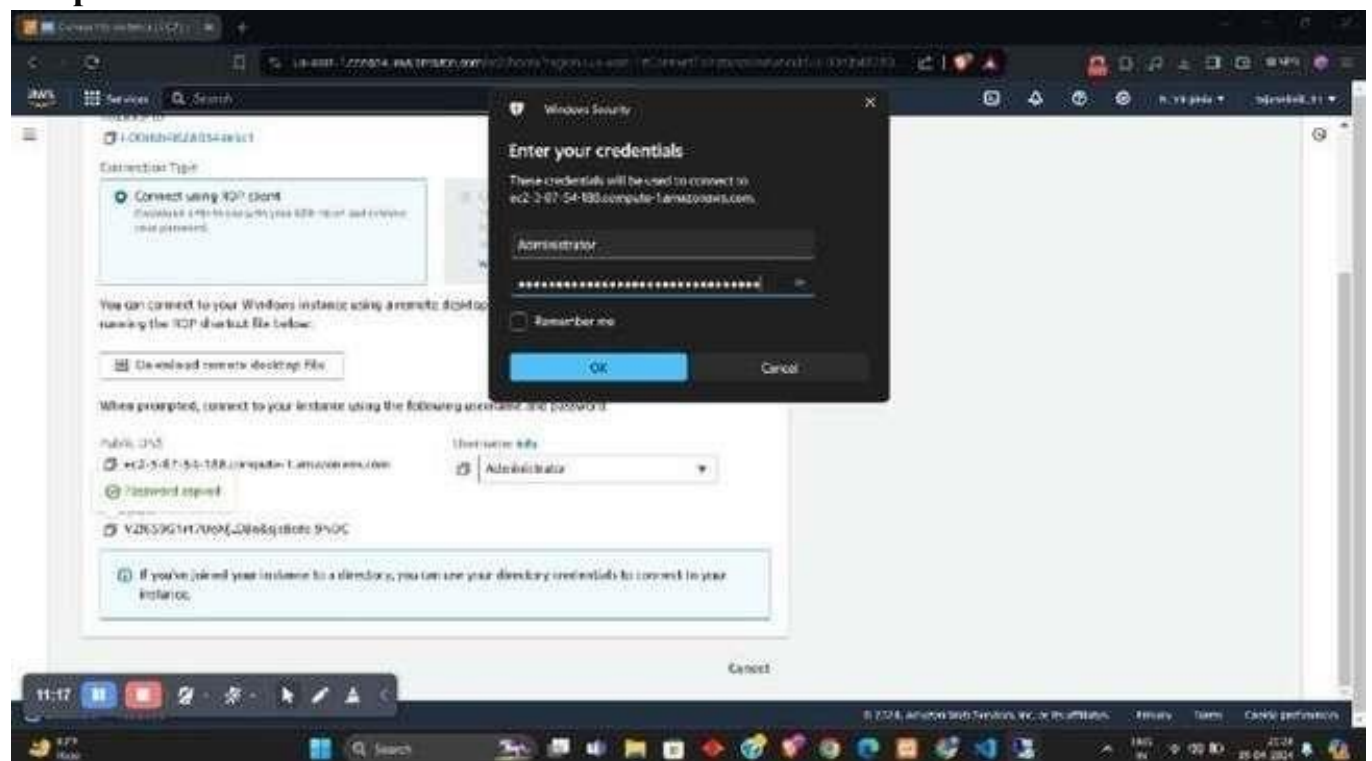
[Download remote desktop file](#)

When prompted, connect to your instance using the following details:

Public DNS: ec2-54-82-71-221.compute-1.amazonaws.com Username: Administrator Password: [Get password](#)

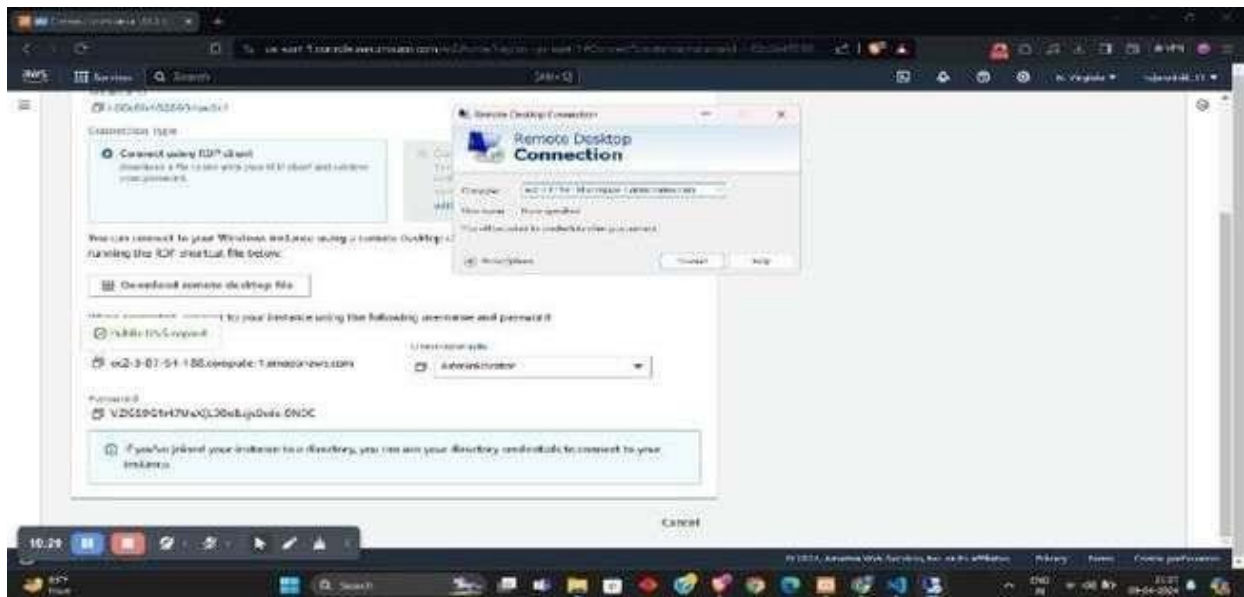


**Setup connection with cloud window:**

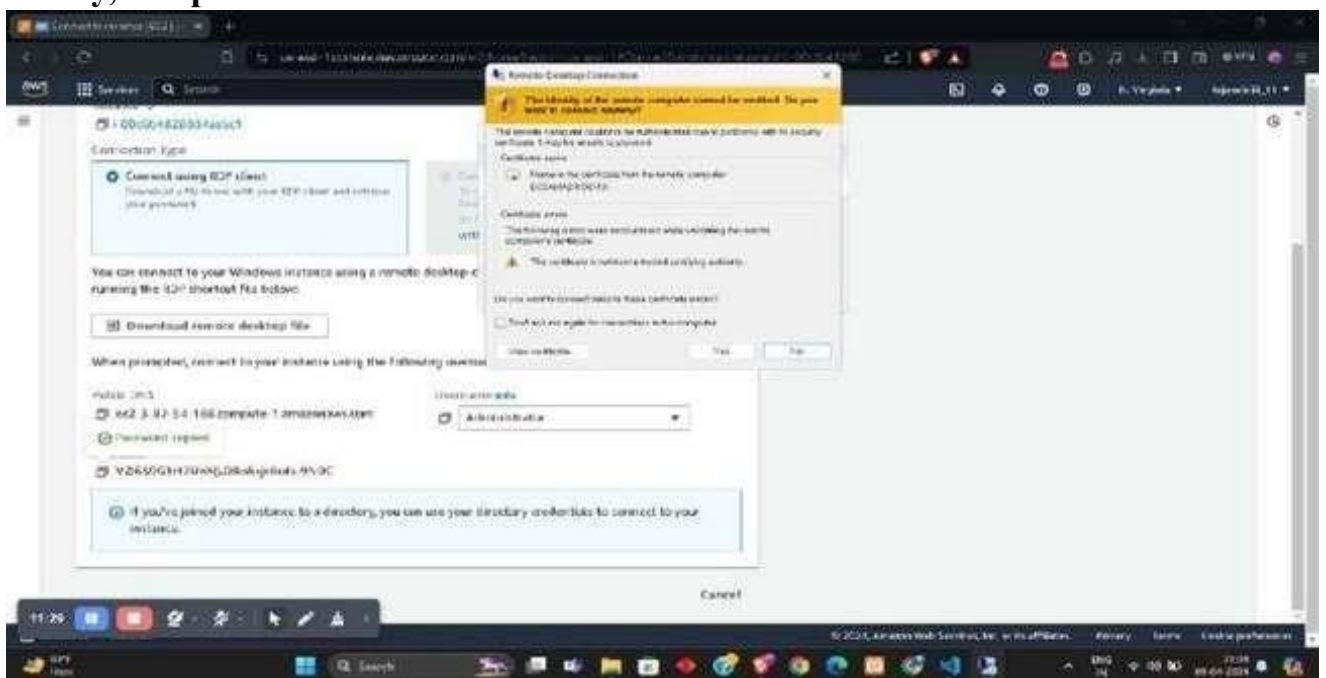


**Enter username and password given in aws console:**



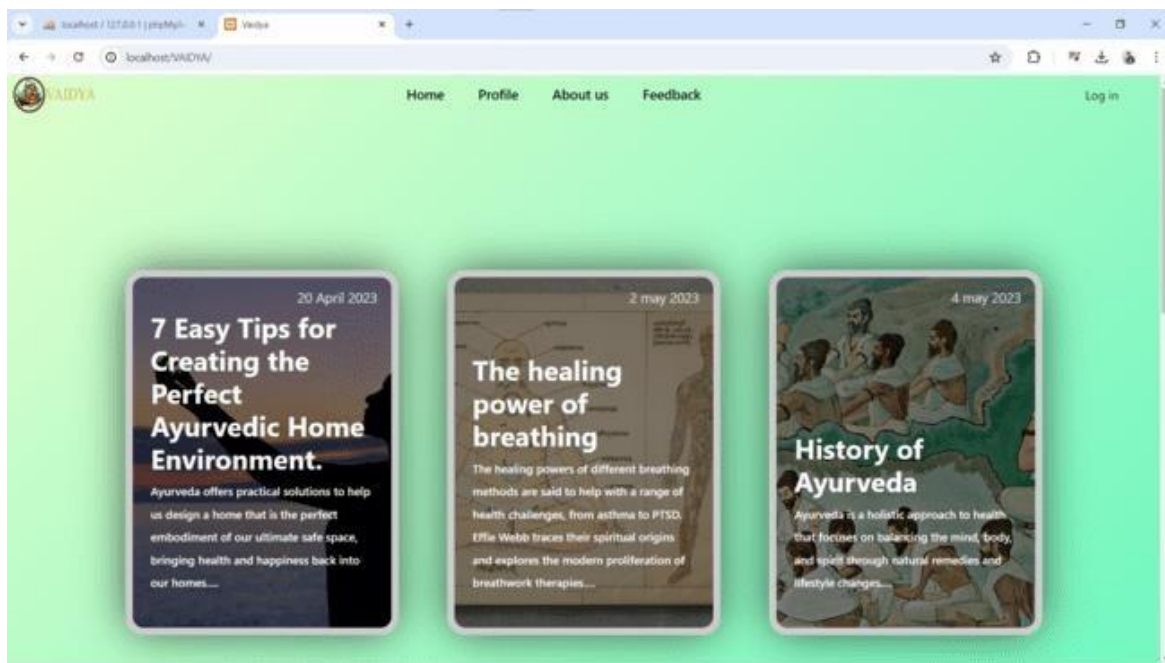


Finally, setup the connection with cloud:

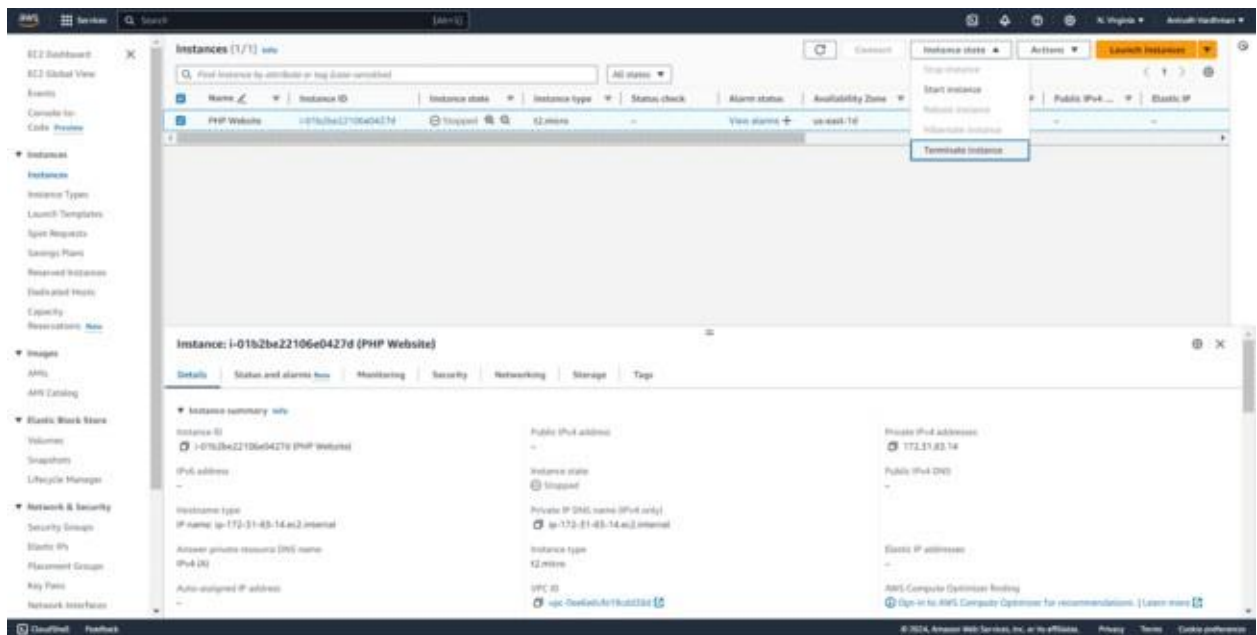


The website launched is finally launched on cloud and can access it with public IPv4 address





## Terminate the Instance:



## **Learning Outcome:**

Using Amazon Web Services (AWS) for deploying web sites can cause several studying outcomes:

**Understanding Cloud Computing:** You'll study cloud computing and how offerings like AWS provide on-demand access to computing resources like servers, storage, and databases.

**Deployment Techniques:** You'll advantage expertise about different deployment techniques inclusive of using AWS Elastic Compute Cloud (EC2) instances, AWS Lambda features, or AWS Elastic Beanstalk for hosting and coping with your website.

**Scalability and Reliability:** You'll apprehend a way to layout your website architecture for scalability and reliability by using leveraging AWS offerings like Auto Scaling, Load Balancing, and Amazon Simple Storage Service (S3) for static content material.

**Cost Management:** You'll study value management strategies in AWS, including selecting the right example sorts, optimizing useful resource utilization, and leveraging AWS pricing fashions like Reserved Instances or Spot Instances to limit charges.

**Security Best Practices:** You'll become acquainted with security satisfactory practices for deploying websites on AWS, which includes putting in steady network configurations, coping with access control with AWS Identity and Access Management (IAM), and implementing encryption for statistics in transit and at relaxation.

**Monitoring and Logging:** You'll learn how to monitor the performance and health of your website the usage of AWS CloudWatch, installation alarms for critical metrics, and use AWS CloudTrail for auditing and logging API hobby.

**Automation and Infrastructure as Code (IaC):** You'll discover automation tools like AWS CloudFormation or AWS Elastic Beanstalk for provisioning and managing your infrastructure as code, allowing consistent and repeatable deployments.

