RECASTER

Subscribing RECASTER on Amazon Marketplace

Instruction Manual
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Table Of Contents

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1. Introduction

This guide provides you step-by-step instructions for general buyers to purchase the **RECASTER AMI-based software** listed on the **AWS Marketplace**.

2. Assumptions:

- Users are expected to have a basic understanding of AWS infrastructure provisioning, including VPC, subnets, and security groups.
- Users should know how to launch and manage EC2 instances.
- RECASTER requires a public IP and internet connectivity to send and receive feeds.

3. Subscribe to RECASTER software

Follow the below process to subscribe/purchase RECASTER

1. Login to your **AWS Management account** with valid user credentials.
2. Go to AWS marketplace and search for "**RECASTER**".
3. Click on "**RECASTER**" to view its product details.
4. On product details page, click on "**View purchase option**" button provided on right-side to proceed for subscription.

5. Read and accept "**Terms and Conditions**".
6. Click the "**Subscribe**" button to subscribe the "**RECASTER**".
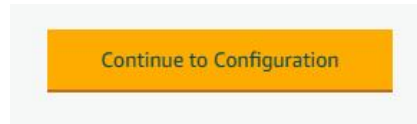

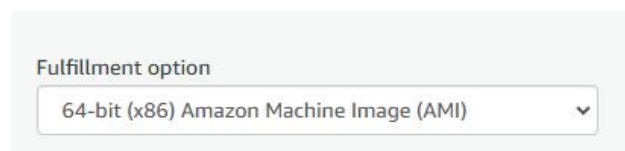After subscription, proceed for configuring instance environment.

4. Configuring RECASTER Instance Launch Parameters

Follow the below process to configure the RECASTER instance launch parameters.
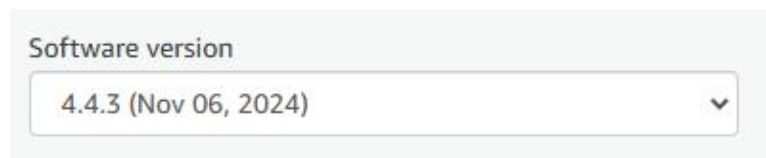
- Click on "**Continue to Configuration**" displayed on right-top position to begin launch configuration. This will navigate you to the **Subscribe** page.
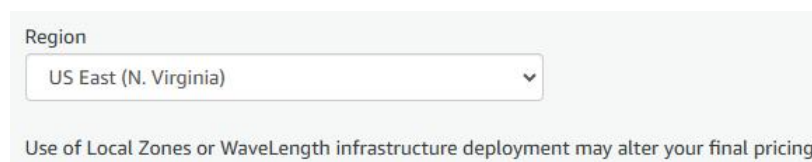
- Select **Fulfillment Option** as "**64-bit (x86) Amazon Machine Image (AMI)**" from drop-down.

- Select latest "**Software Version**" from drop-down.

- Select preferred "**Region**" as per your choice for deployment.

- Click "**Continue to Launch**" button provided on right. This will land you to the **Launch** page from where you can launch this instance.
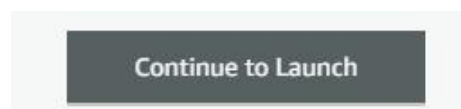
Note: SELECT A REGION OF INSTANCE DEPLOYMENT CLOSE TO DELIVERY LOCATION TO AVOID LATENCY

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5. Launching RECASTER Instance
(customer can select from either of them)

5.1 (OPTION 1) Launch from Website

1. On **"Launch"** page, review the launch configuration and follow the below instructions.

2. In "**Choose Action**" field, select "**Lunch from website**" option from drop-down.

Choose Action

Launch from Website ⌄   Choose this action to launch from this website

3. In "**EC2 Instance Type**"field, choose the desired instance type.

EC2 Instance Type

c7i.2xlarge ⌄

Memory: 16 GiB
CPU: 8 virtual cores
Storage: EBS Only
Network Performance: up to 12.5 Gigabit Ethernet

4. Next, in "**VPC Settings**" field, create a new VPC or use any existing VPC.
.

VPC Settings

* indicates a default vpc

vpc-076de3ff952620e5d ⌄   ⟳

Create a VPC in EC2 ⧉

5. Go to "**Subnet Settings**", and select an existing subnet or proceed to create a new one.

Subnet Settings

subnet-0ef833acfd89a45de (us-east-1d) ⌄   ⟳   **IPv4 CIDR block:** 172.31.32.0/20

Create a subnet in EC2 ⧉
(Ensure you are in the selected VPC above)

Security Group Settings

A security group acts as a firewall that controls the traffic allowed to reach one or more instances. You can create a new security group based on seller-recommended settings or choose one of your existing groups. Learn more

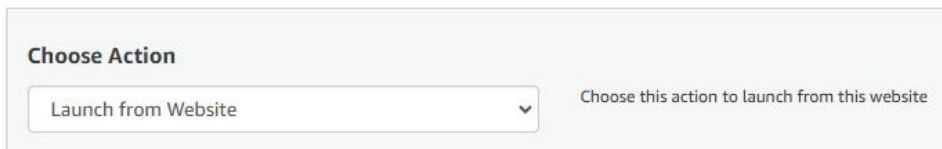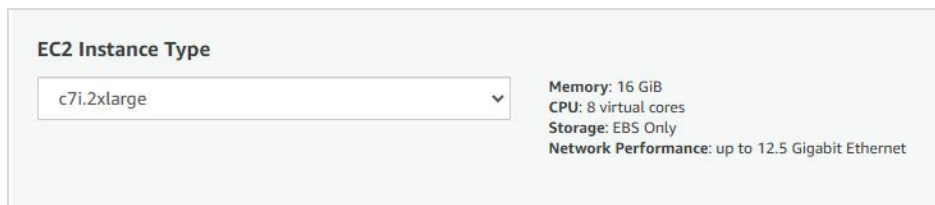Select a security group ⌄   ⟳

Create New Based On Seller Settings

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6. Next, you can either click on "**Create New Based On Seller Setting**" given under **Security Group setting** or create custom security group given in below table.

Protocol	Port no	Source IP/ Group		Purpose	Description
TCP	23232	ANYWHERE	192.168.0.1/24	SSH	Instance SSH port. *Skip this rule* if not required. [**Important** - Do NOT open SSH to the public (0.0.0.0/0). Instead, restrict access to specific trusted IP addresses (e.g., corporate VPN or admin workstation IPs).]
TCP	8090	ANYWHERE	192.168.0.1/24	RECASTER Admin Console	To access the RECASTER admin console use the port number 8090 with EC2 instance public IP in web browser. [**Important** - Do NOT open console to the public (0.0.0.0/0). Instead, restrict access to specific trusted IP addresses (e.g., corporate VPN or admin workstation IPs).]
UDP	5001-5004 (2 Streams) 5001-5008 (4 Streams) 5001-5016 (8 Streams) 5001-5032 (16 Streams)	ANYWHERE	0.0.0.0/0	Feed I/O ports	Use /change these ports based on the feed receiving or transmitting requirements.

7. In "**Key Pair setting**", select an existing key pair or proceed to create a new one by clicking the "**Create a key pair EC2**" link.

Key Pair Settings

To ensure that no other person has access to your software, the software installs on an EC2 instance with an EC2 key pair that you created.

Select a key pair ▾ ⟳

Create a key pair in EC2 ↗

(Ensure you are in the region you wish to launch your software)

8. Click the "**Launch**" button to launch the instance.
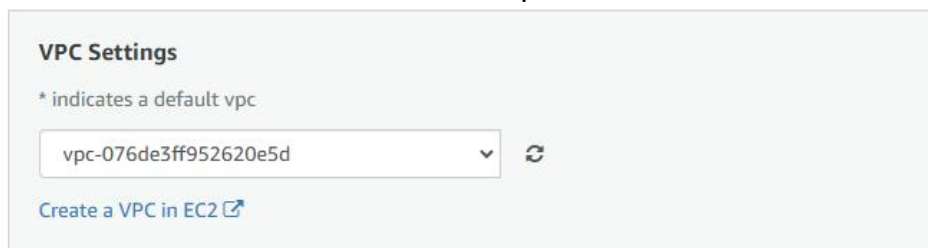
Launch

5.2 (OPTION 2) Launch through EC2

1. On **"Launch"** page, review the launch configuration and follow the below instructions.

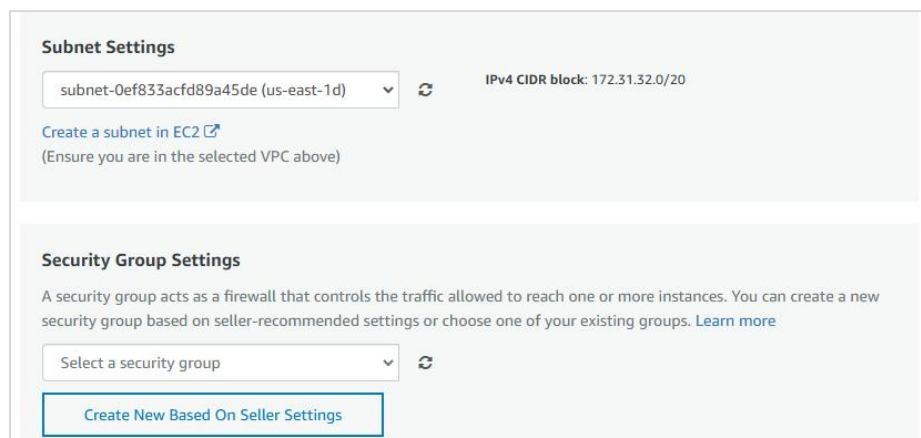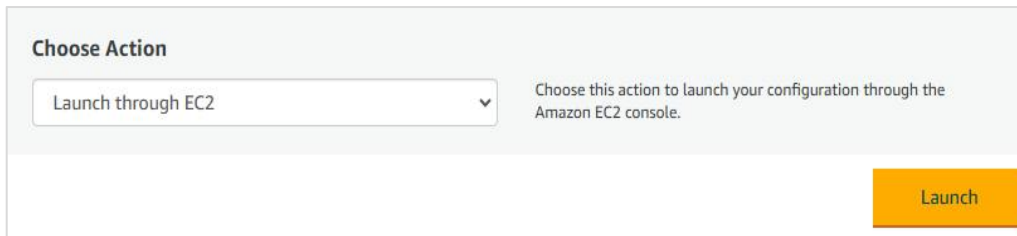2. In "**Choose Action**" field, select **"Launch through EC2 Console"** option from drop-down, and click "**launch**" button.

The above process will redirect you to the **EC2 console** where you can see the pre-configured **AMI ID** on right-side of the page with instance type already selected.

3. After this, you can move ahead for **creating a new instance** by following the below steps.

   a) Enter the **Name or Tag** for the EC2 instance.
   b) Choose the desired **Instance Type**.
   c) Select or create a **Key Pair Value** for secure machine access.
   d) Under **Network Settings**, create or select a **Security Group**.
   e) Specify the **Volume of Storage** to attach to the instance.
   f) Click **"Launch"** button. This will launch the instance.

Once done, then locate the **Instance ID** of the created instance on **EC2 Console page** of your AWS account.
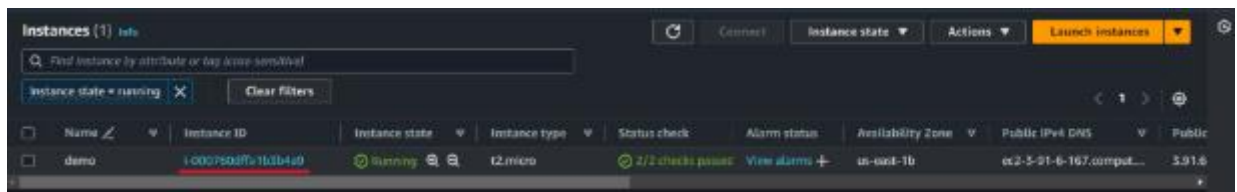
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Page 7 of 14

## 6. (OPTIONAL) Accessing RECASTER Instance over SSH

For administrative needs, RECASTER Instance can be accessed using **Public IP** of the instance and the custom **SSH Port (23232)**.

For security best practices, customers should not access RECASTER over SSH. Instead, use secure AWS-native alternatives for management and troubleshooting.

(You can skip this step, if not required)

7. Accessing RECASTER Admin Console

Open your web browser, enter **Public IP** of the created instance along with port number **8090**.
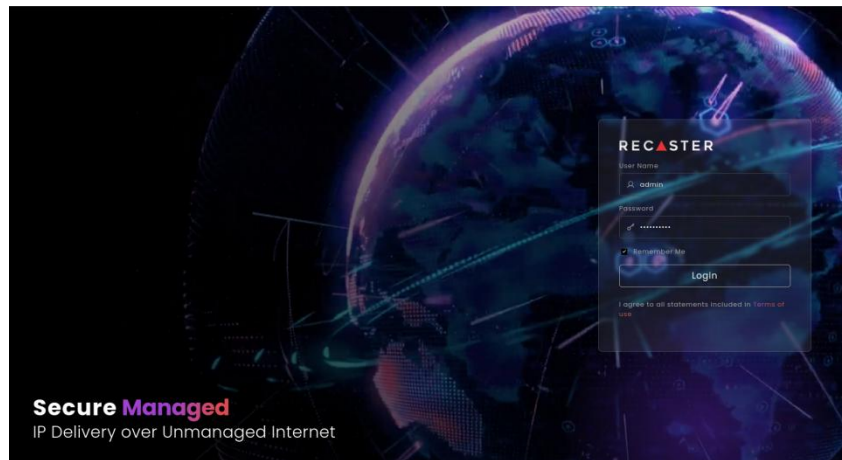*For e.g:- 203.122.21.9:8090.* This will open up the RECASTER Admin Console.
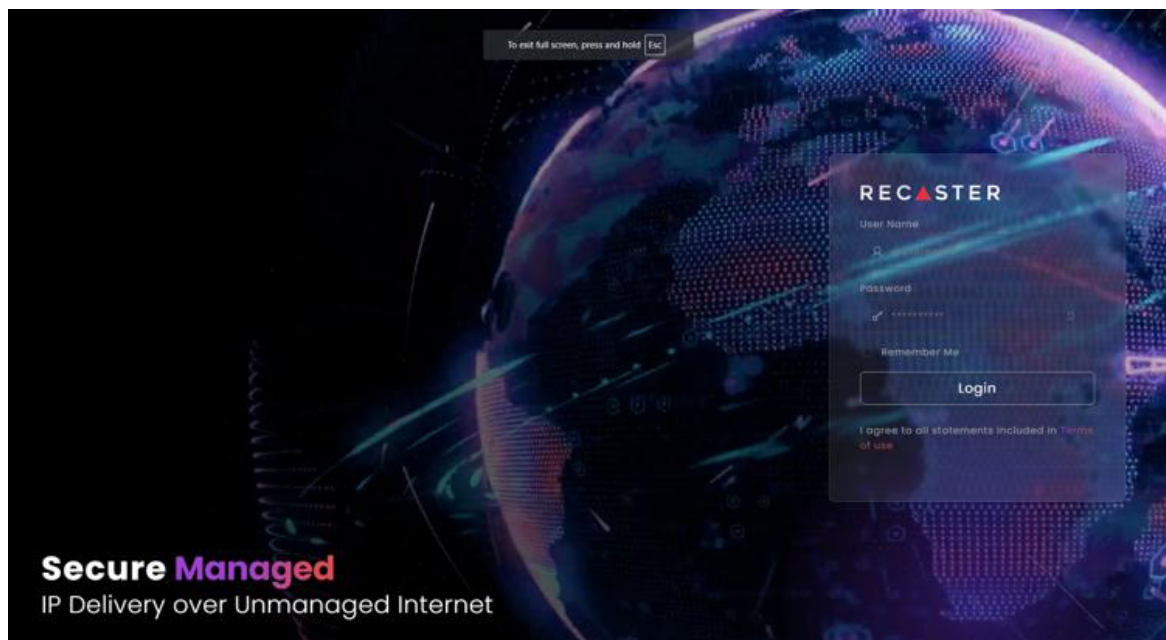
Congratulations! Your **RECASTER** system is ready to configure.

7.1. Login

1. Access your RECASTER Instance UI on web browser through **IP:Port** of your instance.
2. *For e.g:- 203.122.21.9:8090*
3. Enter **admin** as **User ID**.
4. Enter your **RECASTER Instance Id** as **Password**.
5. Click "**Login**".

On successful login, you will be landed on RECASTER UI Dashboard.

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7.2. Reset Password

On first time login, you need to **reset** your RECASTER account password.

1. Open **Manage Profile** window from right-top corner on Dashboard.
2. Navigate to "**Password**" tab.
3. Enter **Old Password**, **New Password**.
4. Enter **New Password** again to **Confirm Password**.
5. Click "**Reset Password**" to apply your password change.

Now, you can again login your RECASTER UI using your changed password & proceed to Channel Configuration.

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Page 10 of 14

7.3. Configure Channel

By navigating to the **Channel Config** menu tab in side-bar navigation panel, you can configure, edit, and manage RECASTER service in **4 different modes** i.e **Transmission**, **Receiver**, **Server**, or **Client**.   You can add **.ts** channels for **SRT**, **ENCRYPTED SRT**, and **RIST** protocols.
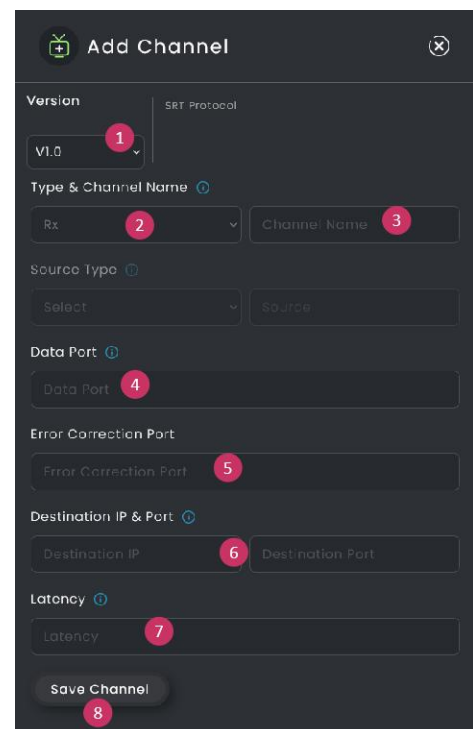
For **SRT**, **ENCRYPTED SRT**, **RIST** protocol you can configure channel in **TX** & **RX** modes.
For **ENCRYPTED SRT** protocol, you can also configure channel in **Client** and **Server** mode, apart from **TX** & **RX** modes.

Add RX Channel for SRT

1. Navigate to the **Channel Config** tab on left-side & click "**Add Channel**" button to open **Channel Configuration**.
2. Select **Version** as **SRT**.
3. Select **Type** as **RX** to configure it as **receiver**.
4. Enter **Channel Name**.
5. Enter **Data Port**.
6. Enter **Error Correction Port** to receive error correction packets.
7. Enter **Destination IP** and **Port** for UDP multicast stream delivery.
8. Enter **Latency (in milliseconds)** for this **.ts** stream.
9. Click "**Save Channel**" button to save and apply this channel configuration.

Now, your RECASTER service is ready to receive SRT stream and recast UDP stream.

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Page 11 of 14

7.4. Manage (Add, Start, Stop, Preview) RECASTER Service

Click over the running service to see N/W, RECASTER Stats, Stream Preview

Click to view running RECASTER services in Mosaic View

CPU & RAM Utilization status

Start/Stop Channel RECASTER

Edit Channel Config

Click "Channel Config" tab to navigate to Channel Management page

Click here to add new channel

View Logs

Click here to view RECASTER Stats

Click here to preview RECASTER stream

Click here to view Network Traffic status

Delete Channel

Copy Channel Config

7.5. Manage Users

On **Team Management** page, you can **add** new users, and **delete** an existing user.

1. Open **Manage Profile** window from right-top corner on **Dashboard**.
2. Navigate to "**Team**" tab.
3. Click "**Add User**" button provided on right-top corner.
4. Enter **Username**, **Email**, **Password** for the new user.
5. Enter **Confirm Password**.
6. Select **User Level** i.e either *Super Admin*, *Operator*, or *Hub* as per user profile.
7. Click "**Add User**" button.

This user will appear listed on "**Team**" page where **Super Admin** user can **delete** this user by clicking the "**Delete**" button provided for that particular user.

Refer "**User Manual of RECASTER**" by clicking on link given below for detailed feature set.

https://www.planetc.net/wp-content/uploads/2025/02/RECASTER-AWS-marketplace-user-manual.pdf
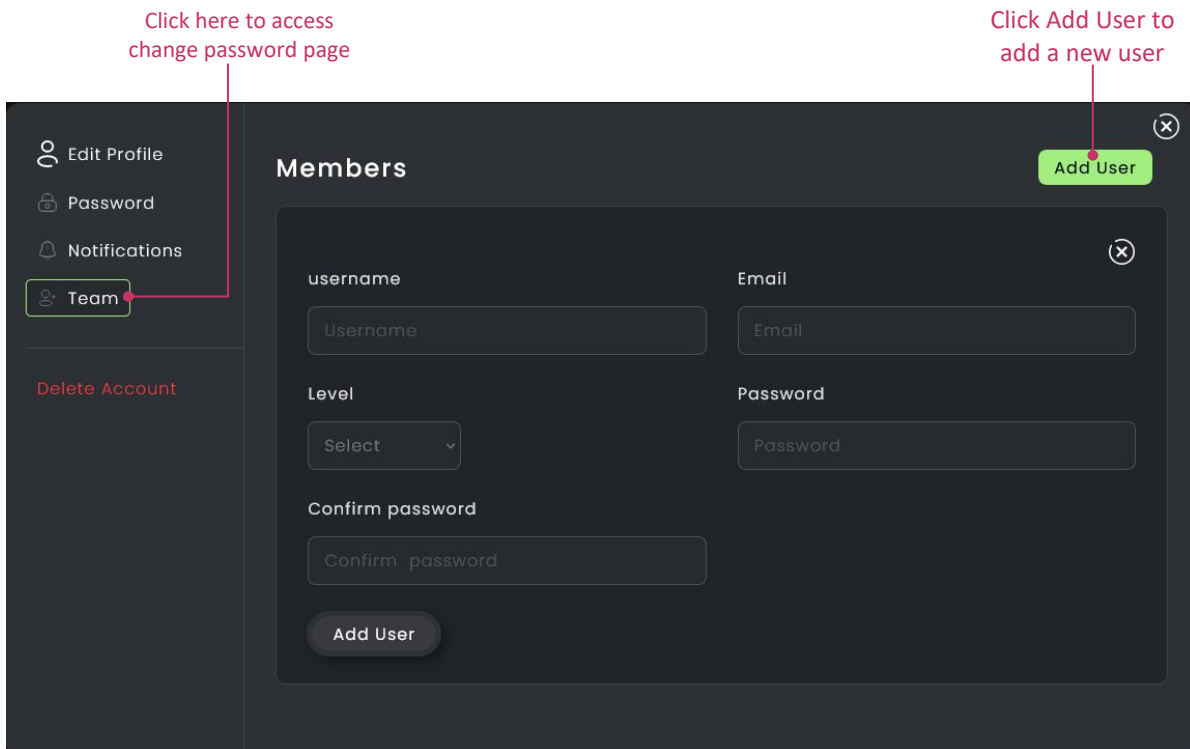
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8. Recommendation - Secure your video streaming infrastructure

The following section outlines recommended post-deployment steps. While these steps are not required for initial product functionality, they are highly recommended for optimal performance and security.

8.1. Secure your RECASTER access using SSL/TLS

- **Obtain an SSL certificate using AWS Certificate manager(ACM):**
  https://docs.aws.amazon.com/acm/latest/userguide/acm-public-certificates.html

- **Create an Application Load Balancer**:
  https://docs.aws.amazon.com/elasticloadbalancing/latest/application/create-application-load-balancer.html

- **Target groups for your Application Load Balancers:**
  https://docs.aws.amazon.com/elasticloadbalancing/latest/application/load-balancer-target-groups.html

- **Setup an HTTPS listener for your Application Load Balancer:**
  https://docs.aws.amazon.com/elasticloadbalancing/latest/application/create-https-listener.html

8.2. Follow AWS guidance on security of EC2 infrastructure

This is a broad overview page that links to many specific security topics related to EC2. It's an excellent place to begin: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-security.html

Disclaimer: Customer Responsibility for Security & Compliance

This AWS Marketplace AMI is provided as a pre-configured solution to help you deploy and run your workloads efficiently. However, as the customer, you are fully responsible for the runtime security, compliance, and ongoing management of the instance. This includes, but is not limited to, network security configurations, user access control, operating system updates, firewall rules, encryption settings, and compliance with industry regulations. We strongly recommend following AWS security best practices, enabling IAM role-based access, restricting public SSH access, and implementing monitoring and logging using AWS-native tools. Failure to secure your environment may result in unauthorized access or data exposure, for which we bear no liability.

PROFESSIONAL SERVICES

We have dedicated team of Media Solution Architects and Cloud Architects who can help improve your media workflows using tool like RECASTER. If you are interested, get in touch at mp-sales@planetc.net

TECHNICAL SUPPORT

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