


EC2 Instance

 Kensium POS uses Amazon's EC2 instances to host the POS server software for Cloud tenants. A single server can support multiple organizations through the use of *multi-tenancy* - each organization gets its own cloud tenant on the server.

As EC2 instances are typically shared by multiple organizations, the installation steps should be tracked in a separate checklist. The installation steps are not tracked in a specific organization's install checklist.

To create a new EC2 instance, use the AWS console web interface. Ensure that the console is pointing to the correct AWS region.

a. AWS Region

Enter the AWS Region and Availability Zone that will host the EC2 instance.

c. Instance Type

Determine and select the instance type of the EC2 instance. Generally this is one of the following types, selected by estimated workload:

- t3.medium
- t3.large
- t3.xlarge

At a later date we may choose to use m5n and a1 instances. EC2 instances that are dedicated to a single client may be a t3.small or even t3.micro instance type.

Determining instance types is an ongoing process. It's important to monitor server performance to track client usage requirements and performance of the POS system for each client; with this understanding it will be easier to determine instance size for the clients that will be hosted on a particular EC2 instance.

e. Add Storage

You can accept the default storage options.

g. Configure Security Group

Add the following security groups:

- default
- SG-POS-OPS to allow Kensium operations personnel to access the server
- SG-POS-WEB to enable the public internet to access the server

i. Add Elastic IP

Add a new Elastic IP address. Add a Name tag:

- The name should reflect the EC2 instance that it will be attached to.
- In other words, follow the format IP-POS-01.
- Replace the number so that it matches the EC2 instance name.
- For example, IP-POS-01 will be attached to EC-POS-01.

After the Elastic IP is created, use the Associate action on the Elastic IP to link it to the EC2 instance created above.

Record the IP address for the EC2 instance. This will be used for each client tenant that is created on the POS server hosted by the instance.

k. Record Credentials

Use the AWS console to obtain the Windows password for the EC2 instance. This password will be used to connect to the instance via Windows Remote Desktop (RDP).

Record an entry into the Kensium password manager:

- The entry name should follow the pattern InstanceName - RDP.
- For example, EC-POS-01 - RDP.
- Record the username and password.
- Record the URL of the site in the URL field, e.g. <https://POS01.fusionPOS.com>.
- Save the record to the Production Operations collection in the Kensium organization.



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Always use the Kensium password manager to access RDP credentials. Do not store or transmit these in files, email or other communications.