

A decorative header image featuring a network diagram with nodes and connecting lines in shades of blue and purple.

TCPWave IP Address Management System[®]

AWS Deployment Guide

November 2020

v11.31P1

TCPWave® Inc.
600 Alexander Road
Princeton, NJ 08540
USA
Phone: 888-831-8276
Email: support@tcpwave.com
Website: www.tcpwave.com

This manual is the proprietary and confidential property of TCPWave® Inc. All resulting rights, the rights of translation and duplication, are reserved and shall be subjected to a separate agreement. Do not share without prior approval.

TCPWave® Inc. reserves the right to modify the described product in compliance with technical progress at any time and without prior notice unless otherwise provided in the agreement.

Contents

Contents	3
Scope and Purpose	4
Recommendations.....	4
Launch and Configure TCPWave IPAM Instance.....	5
Launch TCPWave IPAM Instance.....	5
SSH to the IPAM Instance	8
Configure the IPAM Instance	9
Launch and Configure TCPWave Remote Instance	11
Launch TCPWave Remote Instance	11
SSH to the TCPWave Remote Instance.....	14
Configure the Remote Instance	14

Scope and Purpose

This guide provides the detailed instructions on how to deploy the AWS Images.

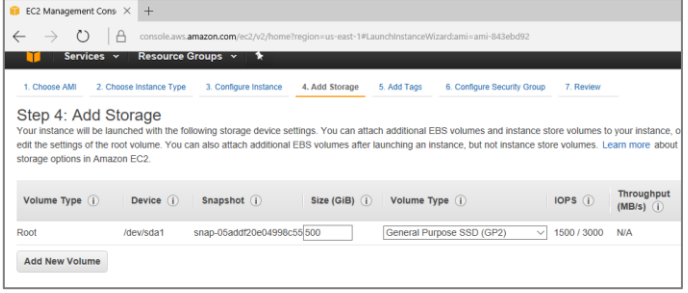
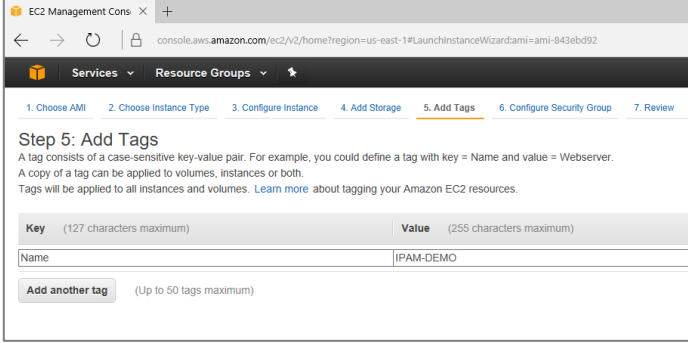
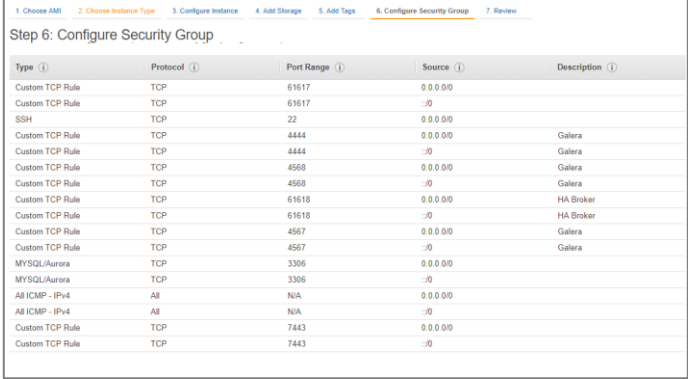
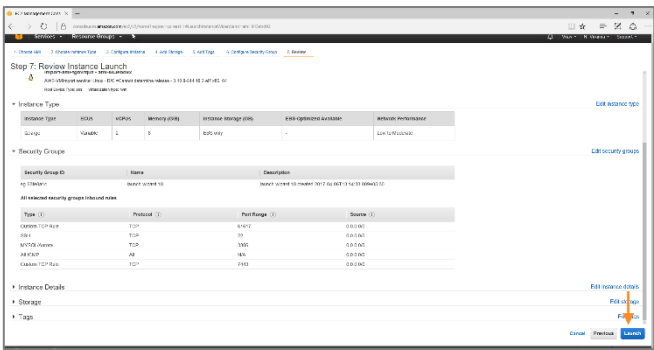
Recommendations

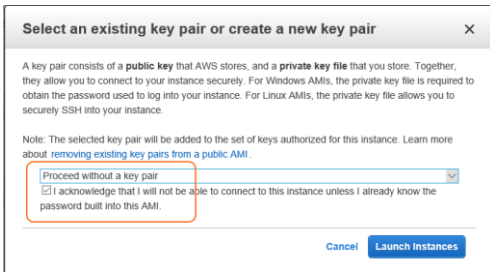
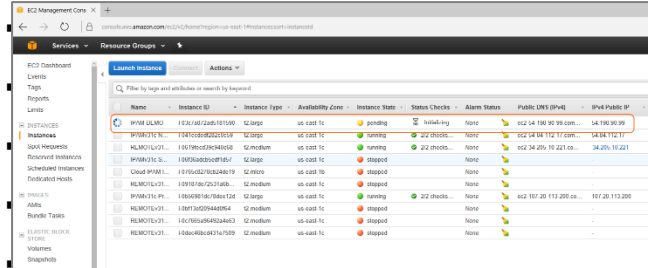
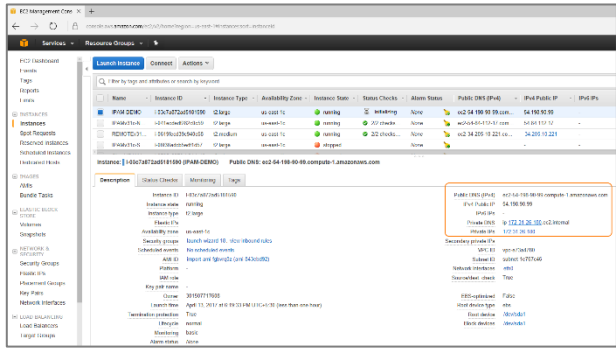
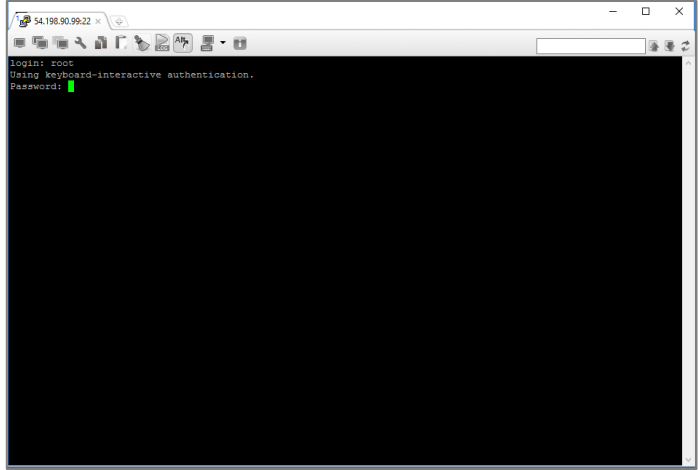
- Make sure that the IPAM and Remote instances are reachable from each side without a Network Address Translation(NAT) in between to avoid network related issues.
- Use instance sizes of greater than or equal to 8GB Memory to avoid performance degradations.
- Do not discover or scan public IP network ranges that you do not have express permission to do so.

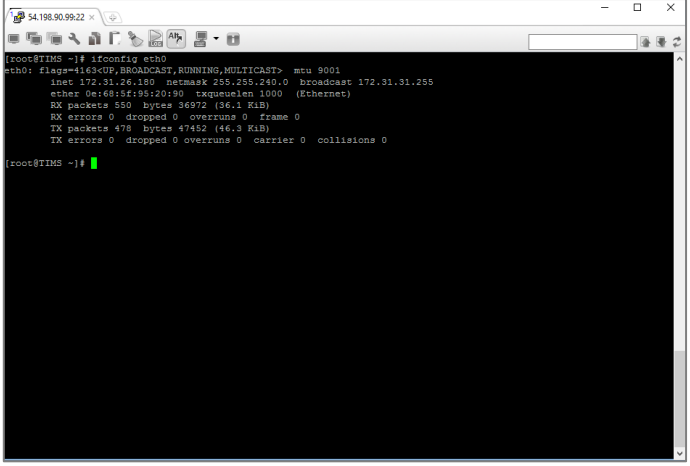
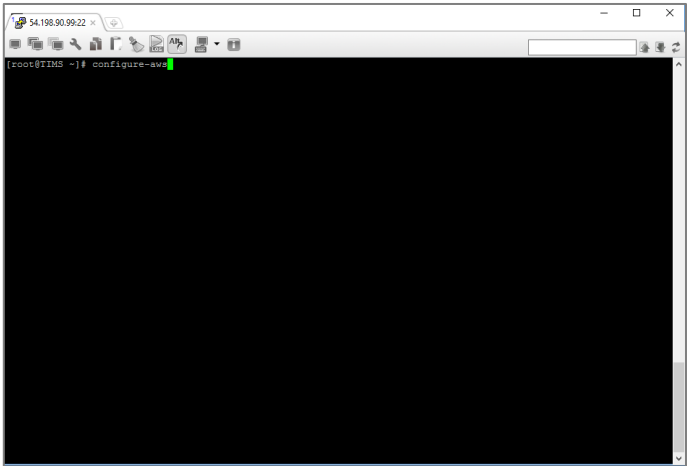
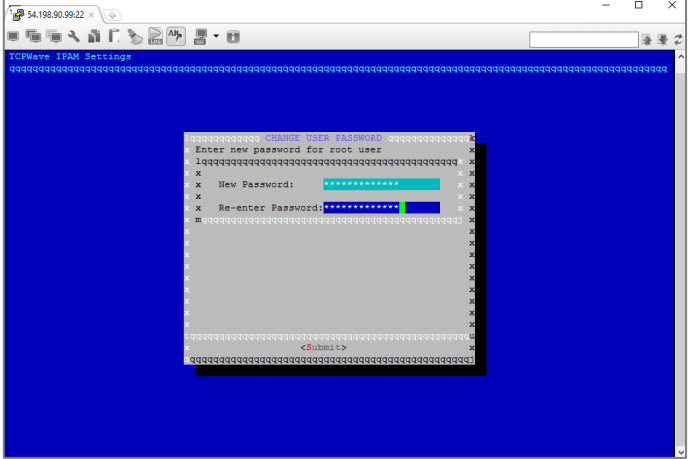
Launch and Configure TCPWave IPAM Instance

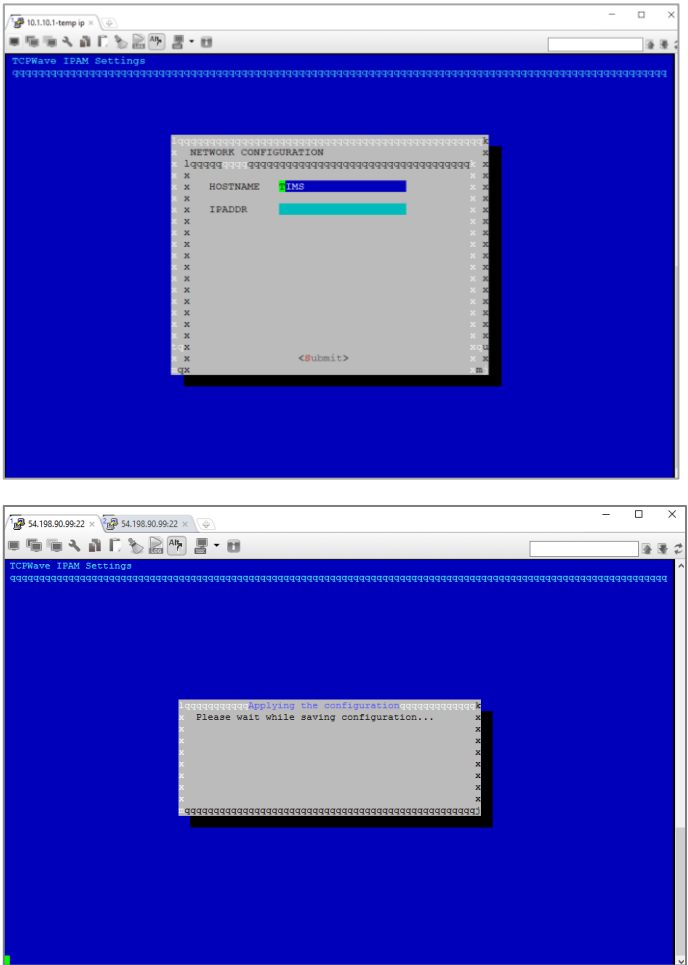

#	Steps	Screenshot
	Launch TCPWave IPAM Instance	
1	<p>Login to your Amazon Web Services(AWS) account by visiting: https://aws.amazon.com</p>	
2	<ul style="list-style-type: none"> After logging into your AWS account. On EC2 dashboard, click EC2 link. 	
3	Click the AMIs link.	

#	Steps	Screenshot
4	Click Launch to start the instance launching process.	
5	Select the Instance Type in the next screen.	
	TCPWave recommends at least t2.large instance type for the IPAM instance.	
6	<ul style="list-style-type: none"> Choose the desired network and subnet in which you want to place your instance. Enable Auto Assign Public IP to access the IPAM GUI from remote location. In the Network Interfaces section, enter the Primary IP for the network interface or leave it blank if you want AWS to auto-assign a private IP. 	

#	Steps	Screenshot
7	Click Next in the Add Storage screen	
8	Add name tag and enter a value for it to name your instance.	
9	Create a security group with the rules	
10	<ul style="list-style-type: none"> ▪ Review your changes ▪ Click Launch 	

#	Steps	Screenshot
11	<ul style="list-style-type: none"> Select Proceed without a key pair in the key pair prompt window Click Launch Instances 	
12	<p>To view the state of newly launched IPAM instance, go to EC2 dashboard. It can take few minutes for the instance to come up.</p>	
13	<ul style="list-style-type: none"> After the instance state changes to running, select the instance to see the network details. You should be able to see the public (if enabled) and private IP addresses in the details section. 	
	<p>SSH to the IPAM Instance</p>	
1	<p>Now SSH to the IPAM instance using the credentials provided by TCPWave.</p>	

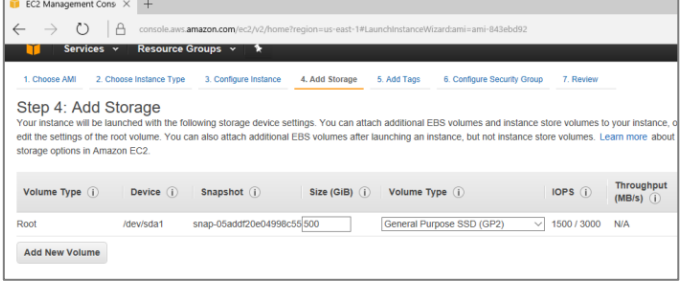
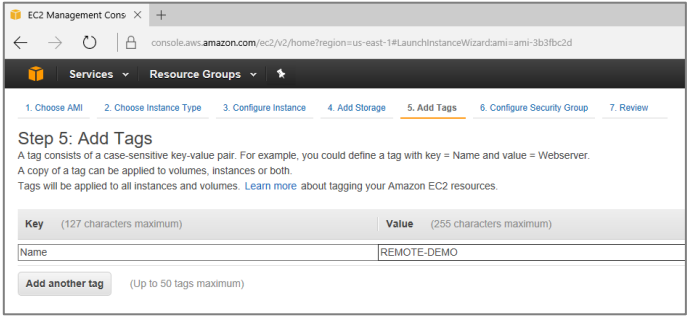
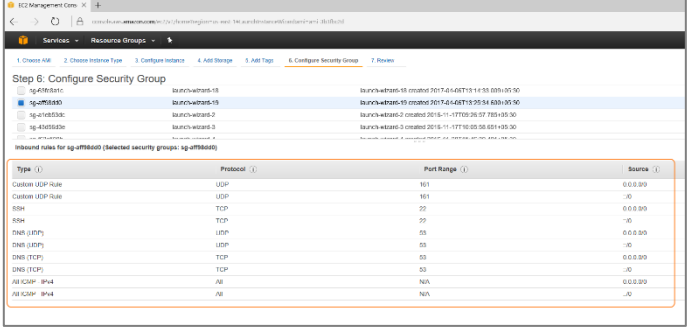
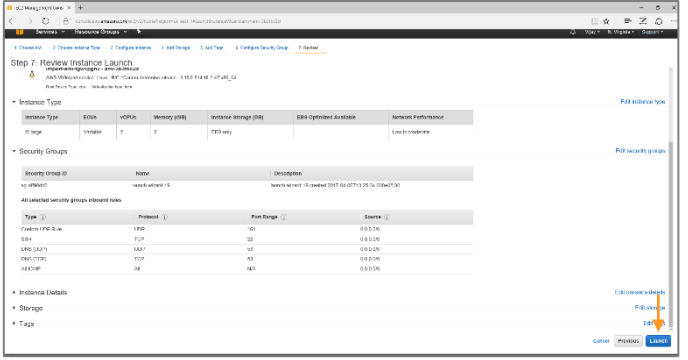
#	Steps	Screenshot
2	<ul style="list-style-type: none"> If you did not enter a Primary IP address during the instance launch operation, then enter ifconfig eth0 Click return key to note down the IP address and broadcast details. 	
<p>Configure the IPAM Instance</p>		
1	<p>To configure the IPAM instance, type the command configure-aws and hit return</p>	
2	<ul style="list-style-type: none"> Accept the license agreement and proceed. After accepting the license agreement, change the default root password Click Submit 	

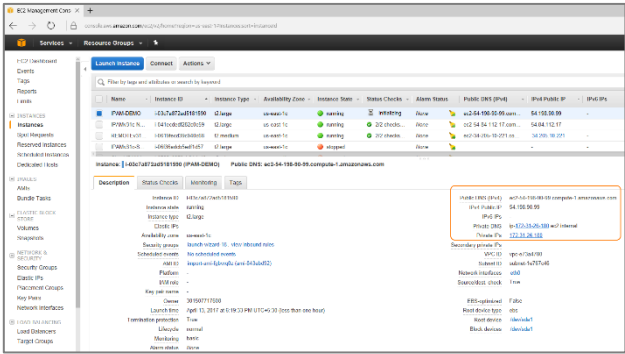
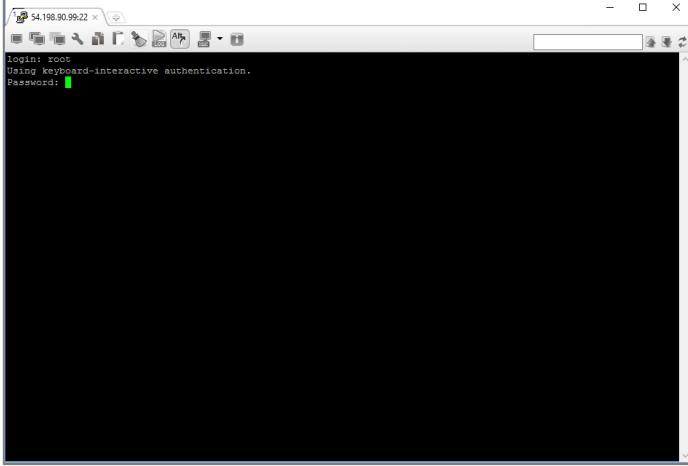
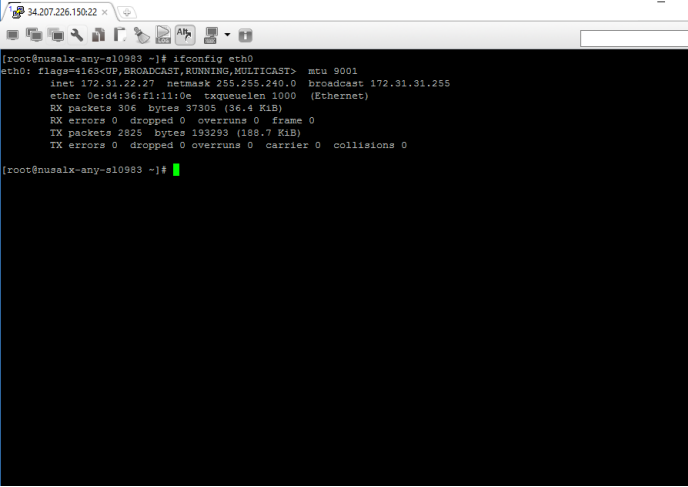
#	Steps	Screenshot
3	<ul style="list-style-type: none"> ▪ Enter the network details ▪ Click Submit ▪ Please wait until the configuration is saved ▪ Type monit summary to see the status of the IPAM components. 	
	<p>You will now see the IPAM log in screen. Please enter the default GUI credentials provided by TCPWave. Please refer the Quick Start Guide for getting started with the TCPWave IPAM. The Quick Start Guide along with other reference documents are available to all the users logged into the IPAM GUI, in the “Documentation” tab.</p>	

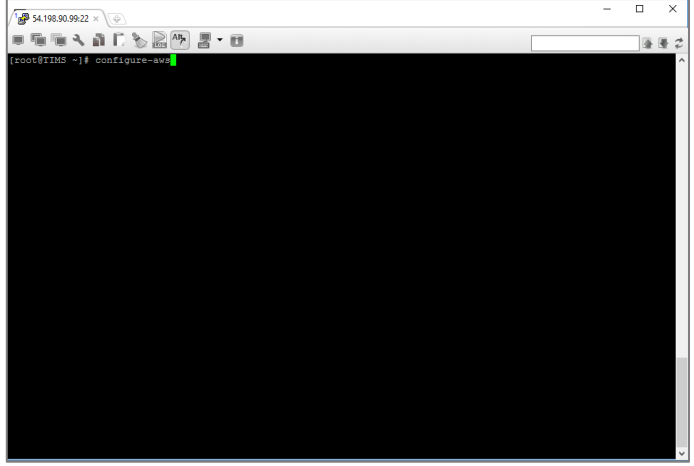
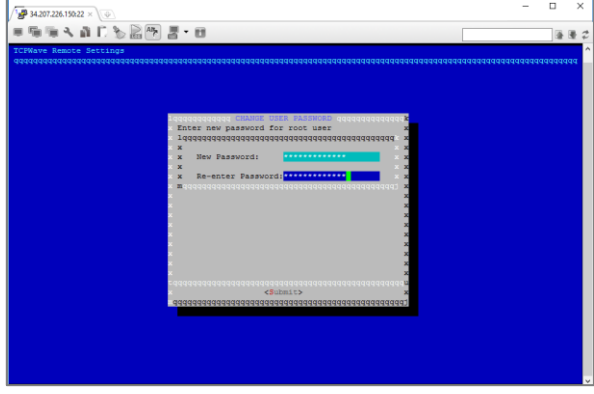
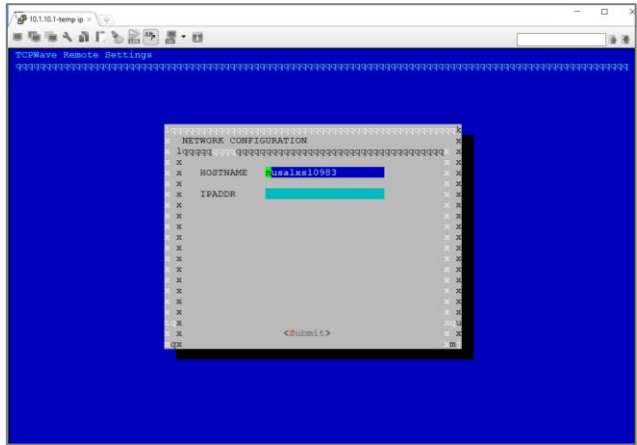
Launch and Configure TCPWave Remote Instance

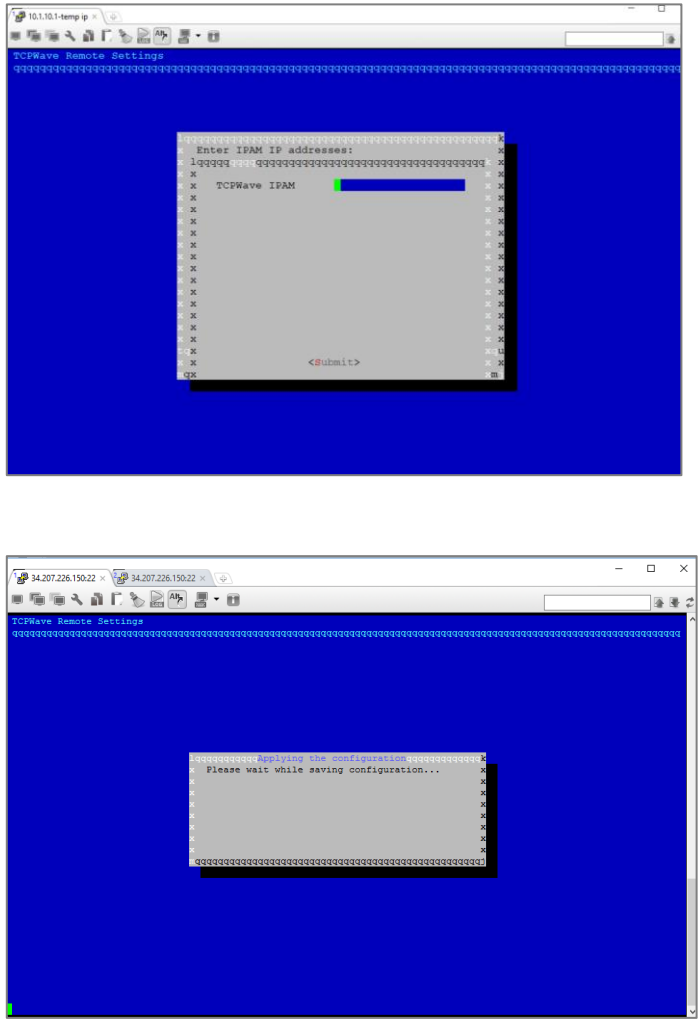

#	Steps	Screenshot
	Launch TCPWave Remote Instance	
1	<p>Login to your Amazon Web Services(AWS) account by visiting: https://aws.amazon.com</p>	
2	<ul style="list-style-type: none"> After logging into your AWS account. On EC2 dashboard, click EC2 link 	
3	<p>Click the AMIs link</p>	

#	Steps	Screenshot																																				
4	<ul style="list-style-type: none"> Search for TCPWave Remote AMI, using the AMI ID supplied by TCPWave, in the Private Images Select the TCPWave Remote AMI from the search results. Click Launch to start the instance launching process. 																																					
5	<p>Select the Instance Type in the next screen</p>	<table border="1"> <thead> <tr> <th>Family</th> <th>Type</th> <th>vCPUs</th> <th>Memory (GiB)</th> </tr> </thead> <tbody> <tr> <td>General purpose</td> <td>t2.nano</td> <td>1</td> <td>0.5</td> </tr> <tr> <td>General purpose</td> <td>t2.micro</td> <td>1</td> <td>1</td> </tr> <tr> <td>General purpose</td> <td>t2.small</td> <td>1</td> <td>2</td> </tr> <tr> <td>General purpose</td> <td>t2.medium</td> <td>2</td> <td>4</td> </tr> <tr> <td>General purpose</td> <td>t2.large</td> <td>2</td> <td>8</td> </tr> <tr> <td>General purpose</td> <td>t2.xlarge</td> <td>4</td> <td>16</td> </tr> <tr> <td>General purpose</td> <td>t2.2xlarge</td> <td>8</td> <td>32</td> </tr> <tr> <td>General purpose</td> <td>m4.large</td> <td>2</td> <td>8</td> </tr> </tbody> </table>	Family	Type	vCPUs	Memory (GiB)	General purpose	t2.nano	1	0.5	General purpose	t2.micro	1	1	General purpose	t2.small	1	2	General purpose	t2.medium	2	4	General purpose	t2.large	2	8	General purpose	t2.xlarge	4	16	General purpose	t2.2xlarge	8	32	General purpose	m4.large	2	8
Family	Type	vCPUs	Memory (GiB)																																			
General purpose	t2.nano	1	0.5																																			
General purpose	t2.micro	1	1																																			
General purpose	t2.small	1	2																																			
General purpose	t2.medium	2	4																																			
General purpose	t2.large	2	8																																			
General purpose	t2.xlarge	4	16																																			
General purpose	t2.2xlarge	8	32																																			
General purpose	m4.large	2	8																																			
	<p>TCPWave recommends at least t2.large instance type for the Remote instance.</p>																																					
6	<ul style="list-style-type: none"> Choose the desired network and subnet in which you want to place your instance. Enable Auto Assign Public IP to access the remote from location. In the Network Interfaces section, enter the Primary IP for the network interface or leave it blank if you want AWS to auto-assign a private IP. 																																					

#	Steps	Screenshot
7	Click Next in the Add Storage screen	
8	Add name tag and enter a value for it to name your instance.	
9	Create a security group with the rules	
10	<ul style="list-style-type: none"> ▪ Review your changes ▪ Click Launch 	

#	Steps	Screenshot
11	<ul style="list-style-type: none"> To view the state of newly launched IPAM instance, go to EC2 dashboard. It can take few minutes for the instance to come up. After the instance state changes to running, select the instance to see the network details. You should be able to see the public (if enabled) and private IP addresses in the details section. 	
SSH to the TCPWave Remote Instance		
1	<p>Now SSH to the IPAM instance using the credentials provided by TCPWave.</p>	
2	<p>Enter ifconfig eth0 to note down the IP address details. These are required during the configuration steps.</p>	
3	<p>Configure the Remote Instance</p>	

#	Steps	Screenshot
	<p>To configure the Remote instance, type the command configure-aws and hit return</p>	
<p>4</p>	<ul style="list-style-type: none"> ▪ Accept the license agreement and proceed. ▪ After accepting the license agreement, change the default root password ▪ Click Submit 	
<p>5</p>	<ul style="list-style-type: none"> ▪ Enter the network details ▪ Click Submit 	

#	Steps	Screenshot
6	<ul style="list-style-type: none"> ▪ Enter the IPAM private IP address in the below screen and hit enter. ▪ Please wait until the configuration is saved. ▪ Type monit summary to view the status of the Remote components. ▪ dhcpd is expected to fail because of the initial configuration mismatch. This is fixed automatically once the IPAM pushes dhcpd configuration in the later stages. 	
	<p>Please refer the Quick Start Guide for getting started with TCPWave IPAM. The Quick Start Guide along with other reference documents are available to all the users logged into the IPAM GUI, in the Documentation menu link on the top right of the screen.</p>	