## New OTM-DEx Client Setup for AWS

Before creating a new EC2 instance for your OTM-DEX application, create a security group that will allow access to your instance's remote desktop.

Start by navigating to the Security Groups tab of the AWS EC2 Console and click the Create Security Group button.

aws iii Services	<b>Q</b> Search		[Option+S]	D 4	0 4	Oregon 🔻	Stephen Livez	ey 🔻
Reserved Instances		Security Groups (2) Info	C Actions <b>v</b>	Export security groups to CSV	•	Create security	y group	٩
Dedicated Hosts Scheduled Instances		Q Filter security groups				< 1	> ©	

Enter 'OTM-DEx Security Group' as the name of the new group and provide a brief description. Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details	
Security group name Info	
OTM-DEx Security Group	
Name cannot be edited after creation.	
Description Info	
Allows remote desktop access	
VPC Info	
Q vpc-63b81006 X	
	1

In the Inbound Rules section, add two rules for SSH and RDP access. We have allowed traffic from all sources by specifying 0.0.0.0/0 for the source in both rules, but you can limit access to specific source IP addresses if desired.

nbound rules	Info				
Type Info		Protocol Info	Port range Info	Source Info	Description - optional Info
SSH	•	ТСР	22	Anywh ▼ Q 0.0.0.0/0 ×	Dele te
RDP	•	ТСР	3389	Anywh ▼ Q 0.0.0.0/0 ×	Dele te
Add rule					

Finish by clicking the Create Security Group button at the bottom of the page.

וופאנ. וומעוצמנכ נווכ וווזנמוונכז נמט טו נווכ העעט בכב כטווזטוכ מווע נוונג נווכ במעוונוו וווזנמוונכז טענני	ext. navigate the Instances tab of the AWS EC2 Console and click the Launch Insta	nces buttor
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aws Service	es	<b>Q</b> Search	h	[Option+	·s]		D.	\$	0	Oregon 🔻	Stephen I	.ivezey 🔻
EC2 Global View			Instances (4) Info	C	Connect	Instance state		Actions	•	Launch ins	tances	•
Events			Q Find instance by attribute or tag (case-sensitive)								< 1 >	0
Tags			, , , , , , , , , , , , , , , , , , , ,									

## Enter the name of the instance (we used 'OTM-DEx', but this can be anything)

EC2 > Instances > Launch an instance
Launch an instance Info Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name OTM-DEx Add additional tags

In the Application and OS Images section, select My AMIs. If you do not see the 'OTM-DEx Client' AMI listed, click on the 'Shared with me' button. If you still do not see the AMI listed, please contact Stu Waldron (<u>stu@opentravel.org</u>). You will need to send him your AWS account ID. Soon there will be a signup form on opentravel.org.

Q Search our full	catalog including 100	00s of application and OS images	
Recents	ly AMIs Quick S	itart	
Owned by me	2	○ Shared with me	Q
			Browse more AMIs
			Including AMIs from
Amazon Machino Im	2200 (AMI)		AWS, Marketplace and the Community
Amazon Machine Im	nage (AMI)		AWS, Marketplace and the Community
Amazon Machine In OTM-DEx Client ami-07a43f7c600f3fi	nage (AMI) d6a		AWS, Marketplace and the Community
Amazon Machine In OTM-DEx Client ami-07a43f7c600f3f 2023-02-19T13:31:3:	d6a 2.0002 Virtualization: I	ivm ENA enabled: true Root device t	AWS, Marketplace and the Community ype: ebs
Amazon Machine Im OTM-DEx Client ami-07a43f7c600f3f 2023-02-19T13:31:33 Description	nage (AMI) d6a 2.000Z Virtualization: I	nvm ENA enabled: true Root device t	AWS, Marketplace and the Community ype: ebs
Amazon Machine Im OTM-DEx Client ami-07a43f7c600f3fi 2023-02-19T13:31:3: Description OTM-DEx Client App	nage (AMI) d6a 2.000Z Virtualization: I plication	ivm ENA enabled: true Root device t	AWS, Marketplace and the Community ype: ebs
Amazon Machine Im OTM-DEx Client ami-07a43f7c600f3f 2023-02-19T13:31:3: Description OTM-DEx Client App Architecture	d6a 2.000Z Virtualization: I plication	hvm ENA enabled: true Root device t	AWS, Marketplace and the Community ype: ebs

If you don't see the DEx client, make sure you checked the "shared with me" button.

In the Instance Type section, select an instance type for your new EC2 server. Minimum system requirements are 2vCPU / 2GiB Memory. This corresponds to the t2.small, t3.small, or t3a.small types. You can also choose a larger instance type if desired, but this should not be necessary.

Instance type Info		
Instance type		
t3a.small		
Family: t3a 2 vCPU 2 GiB Memory		
On-Demand SUSE pricing: 0.0498 USD per Hour	•	Compare instance types
On-Demand Linux pricing: 0.0188 USD per Hour	-	compare motorice types
On-Demand Windows pricing: 0.0372 USD per Hour		
On Demand DHEL pricing: 0.0799 LICD per Hour		

In the Key Pair (login) section, either select an existing key pair or create a new one (this is how you can access your EC2 instance via an SSH command-line interface).

Key pair (login) Info You can use a key pair to securely connect to your instance. Ensure that you have accel launch the instance.	ss to the selected key pair before you
Key pair name - <i>required</i> AWS Key Pair	C Create new key pair

In the Network Settings section, click the 'Select existing security group' setting and select the 'OTM-DEx Security Group' you created earlier.

▼ Network settings Info	Edit
Network Info	
vpc-63b81006	
Subnet Info	
No preference (Default subnet in any availability zone)	
Auto-assign public IP Info	
Enable	
Firewall (security groups) Info A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to instance.	o reach your
<ul> <li>Create security group</li> <li>Select existing security group</li> </ul>	
Security groups info	
Select security groups	
OTM-DEx Security Group sg-0095c6b8bb8e8638d X VPC: vpc-63b81006	e security Iles

When finished, click the Launch Instance button on the right-hand side of the screen and wait until the Status Check field for your instance has a green check mark before proceeding.

Set the remote desktop password for Ubuntu:

First connect to the instance via the command-line in the AWS console by clicking the Actions -> Connect menu from your instance's console page:

EC2 > Instances > i-06faf94ab5ed6755e				
Instance summary for i-06faf94ab5 Updated less than a minute ago	ed6755e (OTM-DEx) Info	Connect Instar	Actions	•
Instance ID	Public IPv4 address	Private IPv4 a	Manage instance state	_
i-06faf94ab5ed6755e (OTM-DEx)	🗇 35.88.10.115   open address 🔀	172.31.5!	Instance settings	•
IPv6 address	Instance state	Public IPv4 DI	Networking	•
-	⊘ Running	ec2-35-8 2 compute ar	Security	•
		2.compute.an	Image and templates	•
Hostname type IP name: ip-172-31-55-187.us-west-	Private IP DNS name (IPv4 only)		Monitor and troubleshoot	•
2.compute.internal	2.compute.internal			
Answer private resource DNS name	Instance type	Elastic IP addre	sses	

Then simply click the connect button to open a new command-line window in your browser:

EC2 Instance Connect	Session Manager SSH client EC2 serial console
istance ID	
🕽 i-06faf94ab5ed6755e (C	)TM-DEx)
ublic IP address	
35.88.10.115	
ser name	
nter the user name defined in th	he AMI used to launch the instance. If you didn't define a custom user name, use the default user name,
oot.	
root	
(i) Note: In most cases, t	the default user name, root, is correct. However, read your AMI usage instructions to

Once the connection is established, you will see a command-line window. Type the following command and enter the password for the 'ubuntu' user when prompted:

> sudo passwd ubuntu



When this is done, close the browser tab for the command-line window.

If you have not already done so, install Microsoft Remote Desktop on your computer that you will be using to access your new OTM-DEx EC2 instance.

Launch the Microsoft Remote Desktop application and click the Add PC button in the middle of the screen.



Back on the Instance details page of the AWS console, copy the public IP address of the new EC2 instance you just created.

EC2 > Instances > i-06faf94ab5ed6755e							
Instance summary for i-06faf94ab5ed6 Updated less than a minute ago	6755e (OTM-DEx) Info	Conne	ect Instance state 🔻 Actions 🔻				
Instance ID D I-06faf94ab5ed6755e (OTM-DEx)	Public IPv4 address D 35.88.10.115   open address Z		Private IPv4 addresses				
IPv6 address –	Instance state Running		Public IPv4 DNS D ec2-35-88-10-115.us-west- 2.compute.amazonaws.com   open address				

In the 'Add PC' dialog, enter the IP address of your instance as the PC Name. From the user account drop-down, select the 'Add User Account...' option.

PC name:	35.88.10.115
User account:	Ask when required
General	Display Devices & Audio Folders
riendly name:	Optional
Group:	Saved PCs 😒
Gateway:	No gateway
	✓ Bypass for local addresses
	Reconnect if the connection is dropped
	Connect to an admin session
	Swap mouse buttons

In the Add a User Account dialog that appears, enter 'ubuntu' for the user name and the password you created in the previous step from the AWS command-line console. Then click the Add button.

Add a User Accour	nt					
Username:	ubuntu					
Password:	•••••					
	Show password					
Friendly name:	Optional					
	Cancel Add					

Click the 'Add' button of the 'Add PC' dialog when you are done. A rectangle with the IP address you entered should appear in the Remote Desktop application window.



Double click the rectangle icon to open the remote desktop connection to your EC2 instance. If prompted to allow the connection click 'Yes' or 'Connect'.



A new window will open to display the interactive GUI for your OTM-DEx instance.



Double-click the 'OTM-DEx Launcher' icon to start the OTM Utilities launcher.



Finally, click the 'OTM-DEX Object Editor' button to launch the OTM-DEx application.

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		DEx - Ope	enTravel Development I	Environment	t Object Edi	tor			- 0
File Edit Views Help		Select Project		•	Queue S	ize 0 Undo 0	)		
All Libraries 👻 🔵 Latest	Only	Properties Resources	Where Used Libraries	Repository	Search Gra	phics			
All Obj Editabl	e Only	▼ Member Details							
Show B	uiltins				Editability	Read-only	y 🔵 Minor	🔵 Full	Lock
Member	Prefix *	Object Name			Base Type	Base Type			Chang
Content. Select to add		Library Librar	y Name Ch	ange A	ssigned Type	Assigned Type	e		Chang
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	Name	Assigned Ty	pe Ro	le	Repeat	Example	Documentation		
				m	nin max		De Descriptio	n	
				No	content in t	able			
		<ul> <li>Property Details</li> </ul>							
	>								
atus: sks Running:									0
									14.42

The OTM-DEx application is preconfigured with read-only access to the OTM repository. If write access is required, please contact Stu Waldron (<u>stu@opentravel.org</u>) for assistance.

	DEx - OpenTravel Develo	pment Environment Object Ec	ditor	0	-	
All Libraries  All Libraries  All Obj  Object name fi  Member Prefix * No Content. Select to add	Properties Resources Where Used LII Opentravel    Oth Anonymous    http://www.opentravel.org/M2C (0,  thtp://www.opentravel.org/OTM (0, Common (23,1)  demo (1/0) finance (6/0) order (7/0)  organization (7/0)  product (7/0)  Ground (5/0) eRFP (4/0)  golf (4/0)  transportation (1/0) vehicle (1/0)  profile (2/0) reservation (4/0)  resources (0/0)  strawman (0/0)	braries Repository Search G Permiss READ_D Library ▼ Hospitality Hospitality Hospitality Hospitality	Version         Status         Locked         Last           3.0.0         DRAFT         Dave.Hollander - Pt           2.1.0         FINAL         Dave.Hollander - Pt           2.0.0         FINAL         Dave.Hollander - Pt           1.0.0         FINAL         Dave.Hollander - Pt           1.0.0         FINAL         Dave.Hollander - Pt			Repository Login //OTM/product/hospit Last R + Dave.Hollander - Promo Dave.Hollander - Promo Dave.Hollander - Promotec
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Status: Done. Tasks Running: 0	http://www.opentravel.org/Sandbox <					<b>O</b> Done