

EUROPEAN COMMISSION

DIGIT Connecting Europe Facility

Domibus Demo

FIWARE Lab

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1. INTRODUCTION

This guide is intended for users who want to have a simple first-hand experience on the operations of exchanging messages between two Domibus instances.

1.1. Purpose

The purpose of this guide is to provide a step by step procedure for launching a Domibus instance on the FIWARE platform, preconfigured to exchange messages with the CEF **Connectivity Testing Platform**.

It provides detailed descriptions of related Security Configurations (keypair and Group Policy), network configuration and SoapUI testing.

2. DEPLOYMENT AND CONFIGURATION

2.1. Registration

1. Register on FIWARE Lab at: <u>https://account.lab.fiware.org/sign_up/</u>

Registration	
Username	
cefsupport	
E-mail	
cef-edelivery-support@ec.europa.e	eu
I have Gravatar and want to use it my avatar.	for
Password	hard
•••••	۲
Password (again)	
•••••	۲
Captcha	
Vim not a robot	reCAPT Privacy -
I accept FIWARE Lab <u>Terms and Conditions</u>	≊ 1 Up
Forgot password Didn't receive confirmation instructions?	

Remark:

- The Username, e-mail, etc. have to be adapted based on your information and requirements.
- A Trial account is opened with a minimum time of two weeks.
- The Community account duration may be extended to a minimum of 6 months, if the account is about to be deleted, by sending a request to FIWARE support.

2. Once the confirmation email is received, click on "laccept":



3. Log In by using the chosen email and password, click on "Sign In":

Log In
Email
cef-edelivery-support@ec.europa.eu
Password
remember me Sign In

4. The following screen will be shown:

FIWARE Lab Cloud Store Ma	ashup Data Account HelpFinfo	cefsupport ≈
Identity Manager	Home	
A Home	Applications Register Organizations	Create
OrganizationsMy Applications	You are not authorized in any application.	•
		_
	View All	View All

2.2. FIWARE Cloud Account creation

1. Click on "Cloud"

dentity Illanager	Home		
Home	Applications	Register Organizations	Create
Ørgonizations My Applications	Cloud http://doud.lab.flware.org/	Cefsupport cloud This organization is intended to b	

2. A Cloud portal account has to be created separately from the registration. Click on **Create Account**:

	ARE Lab
Password	۲
Request Community Account	Create Account Connect

3. Enter your details including a Name and an Email address. Choose a FIWARE region closest to you from the list (e.g: **"Crete"**, **"Vicenza"**). Click on **"Envoyer**"/"Send" as shown in the example below:

Create new FIWARE Lab user account
Enter your data and preferences in order to create the FIWARE Lab user account. It is important that you accept the Terms & Conditions before we create the account.
*Obligatoire
Name * User name to be stored in the created account.
cefsupport
Email * Email address to be used to access to the FIWARE Lab Cloud. cefsupport@cefsupport.com
FIWARE Lab region * Selected FIWARE Lab region in which you want to work.
I accept the FIWARE Lab Terms & Conditions * http://forge.fiware.org/plugins/mediawiki/wiki/fiware/index.php/FIWARE_LAB_Terms_and_Conditions
ENVOYER

4. A message will be shown to acknowledge that the request has been sent:



5. You will receive an email asking you to confirm the account creation, as shown in the example below:



6. Reply to the email as requested:

To: fernando.lopez@fiware.org < fernando.lopez@fiware.org >

Subject: confirm: cTLHaBYO3GKaRnUm9Ag8ezcnbxcBIBG9jEGnvWxXTKDVVmGb

7. Another email (waiting for approval), will be received to confirm that the request will be treated by a moderator:

From: fiware-lab-user-creation-bounces@lists.fiware.org < fiware-lab-user-creation-bounces@lists.fiware.org >
Subject: Your message to Fiware-lab-user-creation awaits moderator approval
Your mail to 'Fiware-lab-user-creation' with the subject
confirm:cTLHaBYO3GKaRnUm9Ag8ezcnbxcBIBG9jEGnvWxXTKDVVmGb
Is being held until the list moderator can review it for a pproval.
The reason it is being held:
Post by non-member to a members-only list
Ei the r the message will get posted to the list, or you will receive
notification of the moderator's decision. If you would like to cancel
this posting, please visit the following URL:

https://lists.fiware.org/confirm/fiware-lab-user-creation/713cfe8ae7263741152d5468ba3409a563680f3e

8. An email is then received after a couple of days to confirm the account has been created:

From: noanswer@admtools.lab.fiware.org <noanswer@admtools.lab.fiware.org>

Subject: Your FIWARE Lab account has been created

Your account in FIWARE Lab -- https://cloud.lab.fiware.org -- has been created

Username: cefsupport@.....

Password: 5094mmgzq07our1yydke

 ${\sf Please, change your password in your 1st access. You can send your questions to \ fiware-lab-help@lists. fi-ware.org}$

Best Regards,

FIWARE Lab Team

Remark:

If no email is received, please send an email the FIWARE support to request an update (<u>fiware-lab-user-creation-bounces@lists.fiware.org</u>)

2.3. Domibus Configuration

2.3.1. Domibus Instance creation

1. Logon the FIWARE Cloud (https://cloud.lab.fiware.org) using the credentials provided in the email:

•	CLOUD PORTAL
ιοσιο	
cogim	
User Name	
cefsupport@ce	fsupport.com
Password	
Password	۲
Password	۲
••••••	۲

2. You will be presented with the following screen:

		Overview						
Project		Limit Summaru						
Compute		child Solitholy						
	Overview							
	Instances							
	Volumes	instances	VOUs	RM		Floating IPs		Security Groups
	inoges	Used 0 of 3	Used 0 of 12	Used 0 of 13,000		Used 0 of 1		Used 1 of 10
	Access & Security							
Detwork								
Orchestration		Volumes	Volume Storage					
Object Store		Used/0 of 3	Used 0 of 50					
Identity		Usage Summary						
		Select a period of time to query its uson	o [,]					
		Select of period of child to query its oblig						
		Priorite 2018-04-01 Tet 2018-04-12	Scoret					
		Portice instructor 0						
		Petive RMT: Course						
		This Period's GB-Hours: 0.00 This Period's GB-Hours: 0.00 This Period's GBB-Hours: 0.00						
		Usage					A Dourrised CSV Summary	▲ Dounlosd).cju Environment File
		Instance Rome	VOPUs	Disk	RAD	Time since created		
				No items to display,				
		Dispinging D items of Folice						

3. Click on Instances:

		Overvi	ew		
Project	^	Limit Cou			
Compute	^	LIMIC SUI	nmary		
	Overview Instances				
	Volumes Images		Instances Used 0 of 3		VCPUs Used 0 of 12
Ac	cess & Security				
Network	×				
Orchestration	~		Volumes		Volume Storage
Object Store	~		Used 0 of 3		Used 0 of 50
Identity	~	Usage Su	ummary		
		Select a p	period of time	e to query its u	isage:
		From: 2018-	-04-01	To: 2018-04-12	Submit
		The date	should be in YYYY-mm-dd	format.	

4. Click on Launch Instance

created F	Availabilitu Zooe
created	Availability Zone

5. Choose a name for the Domibus instance, a **Flavor**, **Boot Source** and the **image** (in this case *Domibus-r.X.Y.Z*). Click on Launch:

Details * Acce	ess & Security	Networking *	Post-Creation	Advanced Options	
Availability Zone			Specifu the detai	Is for launching an instance.	
nova		*	The chart below	shows the resources used by this	project
Instance Name *			in relation to the	project's quotas.	
Domibus_1			Flavor Details	S	
			Nome	m1.medium	
Flavor * 🚱			VCPUs	2	
m1.medium v			Root Disk	40 GB	
have been disabled.	ang minimon an	uge requirements	Ephemeral Disk	0 GB	
Instance Count * 🛛			Total Disk	40 GB	
1			RAM	4,096 MB	
Instance Boot Source	*0		Project Limits	5	
Boot from image		٣	Number of Instar	nces 0 of	3 Use
Image Name *					
domibus-r3.3.2 (1.4	1 GB)	٧	Number of VCPU:	s O oF :	LZ Use
			Total RAM	0 of 13,000 f	18 Use

6. Select the Access and Security tab and click on the "+" sign below Key Pair:

Launch	Instance				×
Details *	Access & Security	Networking *	Post-Creation	Advanced Options	
Key Pair O	s available Is O ult	* 🕇	Control acces groups, and o	s to your instance via key pairs, security ther mechanisms.	
				Cancel Laun	ch

7. Create and Paste the Public Key as described:

ey Pair Name *	Description:
vublic Key *	Key Pairs are how you login to your instance after it is launched.
Bt03giDXe8/PHYzuWTmu20Fnduu2ubbp0iUBBW3 Evrzoyw/rgK15+L21PmH5dd72cmJDvR+Zi2+9PC	Choose a key pair name you will recognise and paste your SSH public key into the space provided.
LxxHrV@2Lo1ugOU@ATFDBorlTkRDE9LrhVPFeW eZvhkAgMLzV+Og1Br8RfTg0vXgdKgllFw0Lu7R0j Z@bK08268c/2018(VESb4282DP1gVj3dRb)+gE	SSH key pairs can be generated with the ssh-keygen command:
nnmuGBzundzzoro/113042r2.0r1401300.00/mic nnmuAxilWiBSDhzS1kUmZzRVeq7o9Xs58X/BQL3 1VXSCJ/ImMbMujpLWkzsoBz3WDF4DM4WLXGwh	ssh-keygen -t rsa -f cloud.key
xh1b+16Pw2GEDk15+5LUWq5m/nR48Rk0owuHnS RCeT2ladisHU9arUUcFq5MQ1 berrama@b4edeliveru02	This generates a pair of keys: a key you keep private (cloud.key) and a public key (cloud.key.pub). Paste the contents of the public key file here.
This field is required.	After launching an instance, you login using the private key (the username might be different depending on the image you launched):
	ssh −i cloud.key <username>@<instance_ip></instance_ip></username>

Remark

The Private Key must be immediately kept in a safe location after it has been generated.

8. Public Key is successfully imported:

Lounch I	nstance				×		Caroline.aebywexc.ec.europo	Success: Succes key: keypair1	sfully imp	orted public	×
Details *	Access & Security	Networking *	Post-Creation Advanced	d Options	-	In	stonce Nome Filter		Filter	A Launch I	nstance
Security Group	s O Ult	× 4	Lontrol access to your insi groups, and other mechan	ance via key pairs, secunty Isms.		[ask	Power State	Time since create	d		Actions
		_		Cancel	ch						

2.3.2. Network Setup

1. Select the **Networking** Tab and click on the "+" sign next to the required network (e.g: *node-int-net-01*) to select the network:



2. Click on Launch once the network is selected:

Decuis	Access & Security	Networking *	Post-Creation	Advanced Options				
Selected ne	etworks	641/989	Choose network from Available networks to Selected networks by push button or drag and drop, you may change NIC order by drag and drop as well.					
\$	node-int-net-01-dual (sea	17565-7976-4045-8/17- +						

3. The Domibus instance will be shown, with as task "Spawning":

In	star	ices													
								Insti	ance Nome 🔹 Filter		Filter	Counch Instance	× Termiocte Inst	More Actio	tions •
0	Instan	ce Nome	Image Name	IP Address	Size	Key Pair	Status	Availability Zone	Task	Power	State	Time since create	ed A	tions	
	Domib	us_1	domibus-r3.3.2		ml.medium	cloud	Build	nova	Spawn	ing No Stat	e -	0 minutes		Associate Floating IP	P •
Disp	loying 1 ite	m of False													

4. Once spawning is done, the instance status is Active with a (local) IP address assigned:

In	stances											
							Instance Nome * Filter		Filter	A Lounch Instance	× Terminate Instances	More Actions •
0	Instance Name	Image Name	IP Address	Size	Key Poir	Status	Availability Zone	Tosk	Power State	Time since cr	eated Act	tions
	Domibus_1	domibus-r3.3.2	192.168.228.220	m1.medium	keypoir1	Active	nova	None	Running	0 minutes	c	reate Snapshot 🔹
Disc	laying 1 item of Folse							- W.		247		

2.3.3. Public IP Address configuration

1. A public IP address has to be associated to the instance just created. Click on **Associate** Floating IP from the Actions menu:



2. Click on the "+" sign to get a Public IP address:

IP Address *		
P Address *		Select the IP address you wish to associate with the
Select on IP address	· +	selected instance or port.
Port to be associated *		
Domibus 1: 192168 228 220		

3. Choose the public-ext-net-01 option, from the pull down menu and click on Allocate IP:

Allocate Floating IP	×
Pool*	Description: Allocate a floating IP from a given floating IP pool. Project Quotas Floating IP (0) 1 Available
	Cancel Allocate IP

4. A public IP address is proposed (e.g: 130.206.122.90): click on Associate to select it:

Manage Floating IP Associatio	วกร	×
IP Address * IP Address *		Select the IP address you wish to associate with the
130.206.122.90	+	selected instance or port.
Port to be associated *		
Domibus_1: 192.168.228.149	٣	
		Corrol
		Lancel Hssociate

5. The Instance is now shown with the new selected details (if not, click on the "Refresh" button) :

Ins	stances												
							Instance Nome			Filter 0	Lounch Instance	X Terminote Instar	ices More Actions -
	Instance Name	Image Name	IP Address	Size	Key Pair	Status	Availability Zone	Task	Power	Stote	Time since cre	ated	Actions
	Domibus_1	domibus-r3.3.2	192.168.228.220 Flooting IPs: 130.206.122.90	m1.medium	keypair1	Active	nova	None	Runnir	g	7 minutes		Create Snapshot 👻
Displ	aying 1 item of False												

2.3.4. The Security Options:

1. Use the Access & Security menu to create a Security Group:

Compute	^	Ins	stances	
	Overview			
	Instances		Instance Name	Image No
	Volumes	-		
	Images		Domibus_1	domibus
	Access & Security	Displo	iying 1 item of False	
Network	~			

2. In the Security Groups tab, cilck on Create Security Group:

Access & Security		
Security Groups Key Pairs Floating IPs API Access		
	Filter Q + Greate Security Group + Create	ete Security Groups
Rome	Description	Actions
e defoult	Default security group	Monoge Rules
Displaying 1 item of False		

3. Enter a Name for the new Security Group and click on Create Security Group:

Create Security Group	×
Name * security_group1	Description: Security groups are sets of IP filter rules that are applied to the network settings for the VfD. After the security group is created, you can add rules to the security group.
	Cancel Create Security Group

4. The new security group is now listed together with the **Default** security Group. Click on **Manage Rules** for the newly created Security Group (e.g: security_group1):

Acc	ess & Security				
Securi	ty Groups Key Pairs Floating IPs API Access				
			Filter Q	+ Create Security Group	* Delete Security Groups
	Nome	Description			Actions
	default	Default security group			Manage Rules
	security group1				manoge Rules 💌
Displa	Jing 2 Items of False				

5. Click on Add Rule:

M	anage Securi	ty Group Rules	s: security_gro	up1 (ea02713	e-0687-4dae-8126-	88dc2ba81bb4)	
						+ Add Rule	× Delete Rules
	Direction	Ether Type	IP Protocol	Port Range	Remote IP Prefix	Remote Security Group	Actions
	Egress	IPv4	Any	Any	0.0.0.0/0		Delete Rule
	Egress	IPv6	Roy	Rny	::/0		Delete Rule
Displo	ying 2 items of False						

6. Set the rules for port **22** as shown below and click on **Add**:

Rule *		
Custom TCP Rule	v	Description:
Direction		Rules define which traffic is allowed to instances assigned to the security group. A security group rule consists of three main parts:
Ingress	٣	Rule: You can specify the desired rule template or use
Open Port *		custom rules, the options are Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.
Port	٣	Open Port/Port Range: For TCP and UDP rules you may
Port 🕑		choose to open either a single port or a range of ports. Selecting the "Port Range" option will provide you with space to provide both the starting and ending ports for the range. For ICMP rules you instead specify an ICMP type and rade in the space provided
Remote * 🛛		Demotes You must specify the source of the troffic to be
CIDR	Ŧ	allowed via this rule. You may do so either in the form of an IP address block (CIDR) or via a source group (Security
CIDR 🕑		Group). Selecting a security group as the source will allow
0.0.0/0		any other instance in that security group access to any other instance via this rule.

7. Add the same rule for port **8080** as shown below:

Rule *			
Custom TCP Rule	٣	Description:	
Direction		Rules define which traffic is allowed to instances assigned to the security group. A security group rule consists of	
Ingress	٣	chied main parts.	
Open Port *		custom rules, the options are Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.	
Port	٧	Open Port/Port Range: For TCP and UDP rules you may	
Port O		choose to open either a single port or a range of ports. Selecting the "Port Range" option will provide you with some to provide both the starting and ending ports for th	
8080		range. For ICMP rules you instead specify an ICMP type	
Remote * 🛛		and code in the spaces provided.	
CIDR	Ŧ	Remote: You must specify the source of the traffic to be allowed via this rule. You may do so either in the form of an IP address block (CIDR) or via a source aroun (Security	
CIDR 🛛		Group). Selecting a security group as the source will allow	
0.0.0/0		any other instance in that security group access to any other instance via this rule.	

8. The resulting rules are shown:

Ш	anage Securi	ty Group Rules	: security_gro	up1 (ea02713	e-0687-4dae-8126-	88dc2ba81bb4)	
						+ Add Rule	× Delete Rules
	Direction	Ether Type	IP Protocol	Port Range	Remote IP Prefix	Remote Security Group	Actions
	Egress	IPv4	Rny	Any	0.0.0.0/0		Delete Rule
	Egress	IPv6	Any	Any	::/0		Delete Rule
	Ingress	IPv4	TCP	22 (SSH)	0.0.0.0/0		Delete Rule
	Ingress	IPv4	TCP	8080	0.0.0.0/0		Delete Rule
Dis	loying 4 items of False						
1							

9. To attach the new security group to the Domibus Instance, click on the **Instances** option:

Compute	*		onage Se	curity
	Overview			
	Instances		Direction	Ether
	Volumes		Egress	IPv4
	Images		Egress	IPv6
Network	cess & Security		Ingress	IPv4
Orchestration	~		Ingress	IPv4
Object Store	~	Displo	l lying 4 items of False	
Lateration -				

10. Click on the Create Snapshot Pull Down Menu to get to the Edit Security Groups Sub-Menu:

	Filter	Launch Instance	X Terminate Instar	More Actions
sk	Power State	Time since cre	ated	Actions
ne	Running	16 minutes		Create Snapshot
-			Di	sassociate Floating IP
			At	toch Interfoce
			De	tach Interface
			Ed	lit Instance
			Ed	lit Security Groups
			Co	insole

11. Use the "+" and "-" signs to set the **Instance Security Groups**:

formation * Security Groups and remove security groups to this instance from the list of available security groups. Security Groups Filter Q Instance Security Groups Filter Q default	dit Instance			>
and remove security groups to this instance from the list of available security groups. Security Groups Filter Q Instance Security Groups Filter Instance Security Groups	Information * Securit	y Groups		
Security Groups Filter Q Instance Security Groups Filter Q	dd and remove security grou	ips to this instance from I	the list of available security groups.	
uritu arouni	All Security Groups	Filter	Q Instance Security Groups	Filter Q
	security_group1		+ default	
	security_group1		+ default	
				Cancel Save

12. The created Security Group (e.g.security_group1) must be attached to the **Instance Security Groups** as shown here:

Information *	Security Group	ie.		
Information -	seconcy Group	is lostance from the li	t of qualitable contraint accurate	
u unu remove sec	.oring groups to tr	its instance from the li	st or avanable security groups.	
All Security Group:	s	Filter Q	Instance Security Groups	Filter Q
lefault		+	security_group1	
				7

13. Click on Save.

3. LAUNCHING DOMIBUS AND TESTING

1. Launch your Domibus in an internet browser, using the public address associated previously: Example for IP=130.206.122.90 used in our latest test:

http://130.206.122.90:8080/domibus

Username: user

Password: 123456

← → C ① Not secure	130.206.122.90:8080/domibus/login?returnUrl=%2F
Domibus Administration Console	Utername * USEP
➡ Messages 〒 Message Filter	Plassoord *
Error Log	E Login
PMode	
O- Truststore	
🚉 Users	

2. Download the **SoapUI** project and the **PMode** configuration from the following address: https://catalogue-server.fiware.org/enablers/electronic-data-exchange-domibus/instances

Secure https://catalogue-server.fiware.org/enablers/electronic-data	a-exchange-domibus/instances
SFIWARE Catalogue	e
VPURCE Cotologue 2018-05-16 Content Person: CEF Support Team Email: CEF-EDELIVERY- SUPPORT@cc.europa.eu Phone: +32 2 299 09 05 Send feedback	2 Control C
	uu AS4ConnectivitySoapTest-soapui-project_gw9.xmLzip

3. Open SoapUI and import the unzipped SoapUI project (AS4ConnectivitySoapTest-soapuiproject_gw9.xml):



4. Open **AS4ConnectivitySoapTest** → BackendService_1_1SoapBinding → SendMessage → Request 1:

S SoapUI	5.4.0													
Eile Pro	oject Suite	e Case	Step 1	ools Desi	top <u>H</u> elp									
Empty	SOAP	REST	1mport	Save All	Forum	⇒ Trial	Preferences	Proxy			Search Forum			
					Soand II Sta	ter Pan								
Projec	ts													
2 B B	AS4Conne	ectivitySoa	pTest		AP R	equest 1								
E 8	Backer	ndService,	1_1SoapBin	nding		12 2		http://1	30.206.122.90:8080/domibus/services/backend					
	0 D do	wnloadM	essage		GE	<2wm1	mersiona"1 0"	anonding	18/177F-8#22	-15-				
	⊕ ⊃ ge	tMessagel	trors		R I	-	Invelope amin	I soape"	http://www.w3.org/2003/05/scap-envelope" walneine="h	10	R (seep:Body)			
	⊕ ⊃ ge	tMessage!	Status		100	<=0	ap:Header>				E <ns5:sendresponse td="" umlns:ns0="http://docs.ossis-open.org/ebunl-msg/eb</td><td>bes/v3.0</td></tr><tr><td></td><td>in C list</td><td>tPending N</td><td>lessages</td><td></td><td>8 3</td><td></td><td>as:Messaging</td><td>•</td><td></td><td>Ray</td><td><pre>sageID cce4234e-9a9f-421e-b9c9-34e65102abbe8domibus.eu</mess</pre></td><td>ageID≻</td></tr><tr><td></td><td>B-○ se</td><td>ndMessag</td><td>-</td><td></td><td></td><td></td><td><ns:UserMe</td><td>sage></td><td></td><td></td><td></ns5:sendResponse></td><td></td></tr><tr><td></td><td>- A</td><td>Request</td><td>1</td><td></td><td>8</td><td></td><td><ns:Far</td><td>yInfo></td><td></td><td></td><td></soap:Body></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>8</td><td></td><td><ne:</td><td>Trom></td><td></td><td></td><td></soap:Envelope></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><</td><td>is:Party</td><td>Id type=" urn:casis:names:tc:ebcore:partyid-type:unre<=""><td>8</td><td></td><td></td></ns5:sendresponse>	8		
							4	s:Role>	http://docs.oasis-open.org/ebxml-msg/ebms/v3.0/ns/co	a				
					4/ns	From								
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Remark:

- You need to use the Public IP Address of your Domibus instance.
- Setup the proxy if needed in SoapUI.

5. Click on the green button to send a message. The result will be a unique **messageID** as shown below:

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6. In your Internet browser, go to your Domibus Admin Console and click on "**Messages**" to check if your message status is "**ACKNOWLEDGED**"

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Domibus Administration Console	Messages												
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	Message Id cce4234e-9a9f-421e-b9c9- 34e65102abbe@domibus.eu	From Party Id ceftestparty9gw	To Party Id cefsupportgw	Message Status	Received 16-04-2018 14:28:52GMT+2	AP Role SENDING	Message Type						
	Download Resend												

4. CONNECT TO SERVER USING SSH

This section explains how to logon to the instance hosting Domibus.

Logon to the server, using putty as an example:

1. Create a putty session using the public IP address of the Domibus Instance:



2. Then use the SSH authentication option and browse to fetch the Private key created in section §6:



- 3. Save the Putty Session and open it.
- 4. Login as Ubuntu (no password needed)

Remark:

Use puttygen to import the private key and convert it to a .ppk format.

5. CONTACT INFORMATION

CEF Support Team

By email: CEF-EDELIVERY-SUPPORT@ec.europa.eu

Support Service: 8am to 6pm (Normal EC working Days)