How to test Stripe 3DS2

This guide is mostly for QE but anyone can benefit from it.

Prerequisites

Have a setup of Porta/System somewhere.

The environment must be either 'production' (deployed in an OpenShift cluster somewhere) or 'development' (locally). It won't work in 'preview'.

If the environment is 'development', it is recommended to follow <u>our installation guide</u>, with the instructions given in <u>the description of this PR</u>.

Steps

Setup the provider to be able to accept payments

1. Sign in to <u>the Stripe Dashboard</u> and get your test keys. If you do not have an account, you can create one for free and you do not even need to activate it just to get the test keys. They must look like the following image. It is important to note that they must be the test keys if you do not want to try real money being charged.

\sim	Get your test API keys							
	Publishable key	pk_test_						
	Secret key	sk_test_						
		F	lide test key					

2. Configure payment settings in 3scale following <u>this documentation</u>. Alternatively, you can quickly do it in the *rails console* like this:



Create the developer account(s) that you will use to test charging them

Follow this documentation to create a developer. Alternatively, you can quickly do it in the *rails console* like this:

> provider = <u>Account</u>.tenants.last

> signup_params = <u>Signup</u>::<u>SignupParams</u>.new(user_attributes: { email: 'test_eu@example.com', username: 'test_eu', first_name: 'Test', last_name: 'EU', password: '123456' }, account_attributes: { org_name: 'test_eu', vat_rate: 33 })

> <u>Signup</u>::<u>DeveloperAccountManager</u>.new(provider).create(signup_params)

> provider.buyer_accounts.order(id: :asc).last.approve

> provider.buyer_accounts.order(id: :asc).last.admin_user.activate

Save the credit card data from the developer portal

This can only be done from the UI because it needs the JavaScript to interact with Stripe. Besides, this is the flow that we actually want to test so better doing it as the customer would.

1. Login to the developer portal with the developer that you have created in the previous step.

â SIGN IN		
USERNAME OR EMAIL	test_eu	
PASSWORD	•••••	
	Sign in	
Forgot password? Sign up		

Form in yourDeveloperPortalUrl/login

2. Navigate through the menu to insert Credit Card Details.

	or settings
account det ines of the 2 credit card details	1
First add a billing address	
By Entering Credit Card details you agree to the <u>Terms of Service</u> , <u>Privacy</u> and <u>Refund</u> .	

In yourDeveloperPortalUrl/admin/account/stripe

- 3. Fill the form of billing address and click on 'save'.
- There has been a change in the API of Stripe that allows countries only as <u>ISO 3166-1 alpha-2</u> <u>codes</u>, while before we were sending the name of the countries directly. We have not solved this incompatibility issue yet and we will have to implement a fix to be decided yet.

ACCOUNT DETAILS	USERS	INVOICES	CREDIT CARD DETAILS	
< Cancel				
Billing Addres	s			
CONTACT /	COMPANY	NAME	test_eu	
	AI	DDRESS	false street	
	ADDRESS (LINE 2)		
		CITY	barcelona	
	co	UNTRY	ES	
		STATE		
		PHONE		
z	IP / POSTA	L CODE		
				Save

 Fill the form with the credit card details using <u>a 3DS2 card from the stripe testing</u> <u>documentation</u>. Then, click on 'Save details".
 For my test, I am using the first one from the list, with the number 4000 0000 0000 3220.

ACCOUNT DETAILS USERS	INVOICES	CREDIT CARD DETAILS					
						& Edit hilling address	
						& Lan bining datess	
Address	false street						
Zip							
City	Barcelona						
State							
Country	ES						
Phone							
Credit card detai	ls						
VISA 4000 0000 000	00 3220	1	2/22	123	12345		
				S	ave details		
By Entering Credit Card details you agree to the Terms of Service, Privacy and Refund.							

5. Complete de 3D Secure 2 authentication.



Create & Charge invoice(s)

I recommend doing it with more than 1 invoice for the same provider and buyer, with different amounts, to ensure that it keeps working for more than 1 payment with different amounts.

1. Go to Audience -> Listing in the Admin Portal and click on the developer account. Then go to Invoices (that will take you to yourAdminPortalUrl/buyers/accounts/developerAccountId/ invoices) and click on 'Create Invoice'.

```
That will create an invoice, but you can also do it from the rails console like this:
```

```
> provider = Account.tenants.last
> developer = provider.buyer_accounts.last
> invoice = Invoice.create!(provider account: provider, buyer account:
developer, period: Month.new(2020, 12))
```

2. Create a *line item* for the invoice. With any data you want. In the UI this is done like this:

Name	Add Custom Charge Line Item Description	8	Quantity	Price	Charged	C Add
Total cost (without Vat rate)	Name test				USD 0.00	
Vat rate Amount	Quantity	_				
Total cost (Vat rate 33.0% included)	Description test					
Transactions	Cost 100.00 USD					
No transactions registered for this invoice	Cancel Create Lin	ne Item	3			

In the *rails console* it is done this way:



- 3. Change the invoice state to 'pending' by issuing it. If you are doing it from the UI, click to the 'invoice' that you have created, and inside the show view, click on 'Issue Invoice'. From the rails console the command is "invoice.issue".
- 4. Charge invoice. This can be done from the Rails console, but as this is also part of what we actually want to test here, it is better to do it from the UI as the customer would. This is how it is done (confirm any alert that pops up in the browser):

Sscale API Manager	nent	⊚ Audience ∨				0 🛔
Accounts	~	test console	test console	1	USD 200.0000	
Settings		Total cost (without Vat rate)			USD 300.0000	USD 300.00
Usage Rules Fields Definitions		Vat rate Amount				USD 99.00
Applications	>	Total cost (Vat rate 33.0% included)			USD 399.00	
Billing	>					
Developer Portai	>	Transactions				
Messages	>					
Forum	>	No transactions registered for this invoice.				
			Regenerate PDF			
			Charge			

In yourAdminPortal/buyers/accounts/developer_id/invoices/invoice_id

5. The next screenshots are the result you should see. However, this does not mean that the payment is done yet, as you can see in <u>the dashboard of stripe.</u>

Red Hat 3scale API Managem	ent	Ø Audience V				© 🛓	
Accounts	~	Name	Description	Quantity	Price	Charged	
Listing		test	test	1	USD 100.0000	ouccessiany compreted.	
Settings Usage Rules		test console	test console	1	USD 200.0000		
Fields Definitions Applications	>	Total cost (without Vat rate)			USD 300.0000	USD 300.00	
Billing	>	Vat rate Amount				USD 99.00	
Developer Portal Messages	> >	Total cost (Vat rate 33.0% included)			USD 399.00		
Forum	>	Transactions					
		No transactions registered for this invoice.					
			Regenerate PDF				
Instant feedback							

Transa	Transactions							
	Status	Created At	Reference	Message	Amount			
0	Success	2020-12-17 22:55:26 UTC	pi_1HzVNalxGJbGz9pue9KcKwbD	Transaction approved	399.0 USD			

Transactions table after reloading the page