

Red Hat 3scale API Management 2.4

API Bizops

How to add / invite developers, account and application approvals, contacting developers, etc.

How to add / invite developers, account and application approvals, contacting developers, etc.

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Abstract

This guide documents business operations with Red Hat 3scale API Management 2.4.

Table of Contents

CHAPTER 1. ADDING DEVELOPERS 1.1. STEP 1: CREATE A NEW DEVELOPER ACCOUNT	4
1.2. STEP 2: SET UP APPLICATIONS 1.3. STEP 3: NOTIFY THE DEVELOPER	4 4
CHAPTER 2. APPROVING DEVELOPERS 2.1. APPROVE FROM EMAIL NOTIFICATION 2.2. ACCOUNT APPROVAL 2.3. SERVICE APPROVAL 2.4. APPLICATION APPROVAL	5 5 5 5 6
CHAPTER 3. CHANGING PLANS FOR AN APP 3.1. CHANGE ACCOUNT PLANS 3.2. CHANGE SERVICE PLANS 3.3. CHANGE APPLICATION PLANS 3.3.1. More Information	8 8 9 10
 CHAPTER 4. CONTACTING DEVELOPERS 4.1. STEP 1: LOCATE THE RELEVANT APPLICATION AND ACCOUNT IN THE SYSTEM 4.2. STEP 2: SEND INTERNAL MESSAGES TO DEVELOPERS 4.3. STEP 3: CONTACT BY OTHER MEANS 	11 11 11 12
CHAPTER 5. CUSTOMIZE PLANS 5.1. STEP 1: CHOOSE THE ACCOUNT 5.2. STEP 2: SELECT THE APPLICATION 5.3. CUSTOMIZE THE APPLICATION PLAN 5.3.1. More Information	13 13 13 13 13
CHAPTER 6. ENABLE SIGNUP	15
CHAPTER 7. FINDING APPLICATIONS 7.1. STEP 1: GET THE INFORMATION YOU NEED 7.2. STEP 2: SEARCH FOR THE APPLICATION 7.3. STEP 3: ACCESS APPLICATION INFORMATION	16 16 16 16
CHAPTER 8. INVITING DEVELOPERS	18
CHAPTER 9. UNSUBSCRIBING DEVELOPERS FROM A SERVICE 9.1. UNSUBSCRIBING A SINGLE DEVELOPER FROM SERVICES 9.2. UNSUBSCRIBING MULTIPLE DEVELOPERS FROM SERVICES	19 19 19
CHAPTER 10. SUSPENDING APPLICATIONS 10.1. STEP 1: FIND THE APPLICATION 10.2. STEP 2: DISABLE THE APPLICATION 10.3. STEP 3: CONTACT THE DEVELOPER	20 20 20 20
CHAPTER 11. DELETING APPLICATIONS	22
CHAPTER 12. MULTITENANCY 12.1. MASTER ADMIN PORTAL 12.1.1. Accessing the Master Admin Portal 12.1.2. Adding an account through the Master Admin Portal 12.2. MANAGING ACCOUNTS 12.2.1. Managing accounts through the Master Admin Portal 12.2.2. Managing accounts through API calls	 23 23 23 24 24 24 24

12.3. UNDERSTANDING MULTITENANCY SUBDOMAINS	24
12.4. DELETING TENANT ACCOUNTS	26
12.4.1. Deleting an account via the Admin Portal	26
12.4.2. Deleting a tenant via the console	26
12.5. RESUMING TENANT ACCOUNTS	27
CHAPTER 13. WEBHOOKS	28
13.1. INTRODUCING WEBHOOKS	28
13.2. WEBHOOKS FORMAT	28
13.3. TROUBLESHOOTING	29

CHAPTER 1. ADDING DEVELOPERS

These are the steps to add a new developer account for access to your API.

If you have configured the workflow to invite developers manually, this covers how to add new developers.

1.1. STEP 1: CREATE A NEW DEVELOPER ACCOUNT

- 1. Follow Accounts link from the Audience section on the Dashboard.
- 2. Click Create.

As an admin, you can skip even some of the required fields. If you want to invite users to the account securely, you can also skip the password fields. However the email on this main admin account must be unique among all users.

	RED HAT SSCALE	API MA	ANAGEMENT A	Audience 🗸						٥	0	*
•			counts									
	Listing		Group/Org.	Admin	Signup Date	Plan	Apps	State			O Crea	ate
	Settings Usage Rules Fields Definitions	Sea	rch for Group/Org.,	User login, First name,	, La		¥		¥		Searc	ch
			Feasible Inc.	feasible	25 Oct, 2018	Default	1	Approved				
æ	Applications >		Developer	John Doe	11 Sep, 2018	Default (custom)	2	Approved				

1.2. STEP 2: SET UP APPLICATIONS

If you want to pre-configure app keys for the account, you can also add an application on behalf of the developer. Otherwise, leave this as one of the initial steps for the developer to take.

RED HAT SSCALE	API MANAGE	EMENT Audience	/					¢	0
🚔 Accounts 🗸 🗸	Account 'Dev	eloper' > 2 Applications	<u>1 User 0 Invitations 1</u>	Group Membership <u>1 Invo</u>	ice <u>1 Service Subs</u>	cription			
Listing Account Plans	Name	State	Service	Plan	Paid? ?	Created At	Traffic On	O Create A	pplication
Subscriptions		All	•	•	•	Creat appli	te cation		Search
Settings Usage Rules	Foobar	App live	Echo API	Unlimited	free	October 26, 2018			
Fields Definitions	Develo	per's App live	Echo API	Basic	free	September 11, 20	18 September 11, 2018		

1.3. STEP 3: NOTIFY THE DEVELOPER

You can either send an email invitation to the developer manually or follow the steps to use the invite developer feature.

CHAPTER 2. APPROVING DEVELOPERS

This section shows how to make approvals for any step in the signup workflow.

Once you've implemented the signup workflow with manual approval steps, you have a few options. The approval process is slightly different depending on the trigger and what is being approved. If you receive an email notification, follow the instructions in the following section. Otherwise, it depends on whether you want to approve an account, a service, or an application.

2.1. APPROVE FROM EMAIL NOTIFICATION

If you (as admin) receive an email notification that one of your developers has an item pending approval, you can copy/paste the URL for the item into your browser, and it will take you directly to the page to make the approval.

2.2. ACCOUNT APPROVAL

To search for specific accounts or filter all accounts that are in a "pending" (for approval) state, navigate to **Audience > Accounts > Listing**. To show only the pending accounts, select "Pending" in the dropdown list *State* and click **Search**.

You can make individual approvals directly on each row, or select several rows at a time and perform a bulk approval.

	RED HAT SSCALE	API MA	NAGEMENT	Audience 🗸							\$	Ø	•
	Accounts ~	Aco	counts										
	Account Plans Subscriptions	Bulk	operations							Filter for a	iccounts		
	Settings	You h	ave selected 1 acc	ounts and you can make follo Select multiple						"pending"	approval		
	Usage Rules Fields Definitions	Send	d email	for bulk approv	al	Send emai	l to selected accour	its		Ľ			
ŝ	Applications >	Char	nge account plan			Transfer these accounts to different account plan							
	Billing >	Char	nge state			Approve, reject or make pending selected accounts							
#	Portal >		Group/f g.	Admin	Signup Date		Plan		Apps	State		⊖ Cr	eate
	Messages >	Sear	Group/Org.	, User login, First name, Last				v		Pending	•	Sea	rch
			tester inc	tester	25 Oct, 2018		Default		1	Created		O Act	ivate
			barba papa	barbapapa	25 Oct, 2018		Default		1	Created		O Act	ivate
			Feasible Inc.	feasible	25 Oct, 2018		Default		1	Approved			
			Developer	John Doe	11 Sep, 2018		Default (custom)		2	Approved			

2.3. SERVICE APPROVAL

To search for specific subscriptions to a service or filter all subscriptions that are in a "pending" (for approval) state, navigate to **Audience > Accounts > Subscriptions**.

To view Subscriptions, enable Service Plans in Audience > Accounts > Usage Rules.

You can select one subscription or several at a time and perform a bulk approval.

۲	RED HAT SSCALE	API MA		udience 🗸						¢	0	å
	Accounts V	Ac	counts									
	Account Plans Subscriptions		k operations	unts and you can make	following operations	with them:						
	Usage Rules Fields Definitions	Sen	d email		s	Send email to selected accounts						
æ	Applications >	Cha	nge account plan		Т	Transfer these accounts to different account plan						
	Billing >	Cha	nge state		Ą	Approve, reject or make pending selected accounts						
ሐ	Developer Portal >		Group/Org.	Admin	Signup Date	Plan	Apps	State			O Crea	ate
M	Messages >	Sear	rch for Group/Org., L	Jser login, First name,	L		Ţ	Pending	~		Searc	h
			Developer	John Doe	11 Sep, 2018	Default (custom)	3	Pending			Approx	ve
									x I	Export a	ll Accou	nts

2.4. APPLICATION APPROVAL

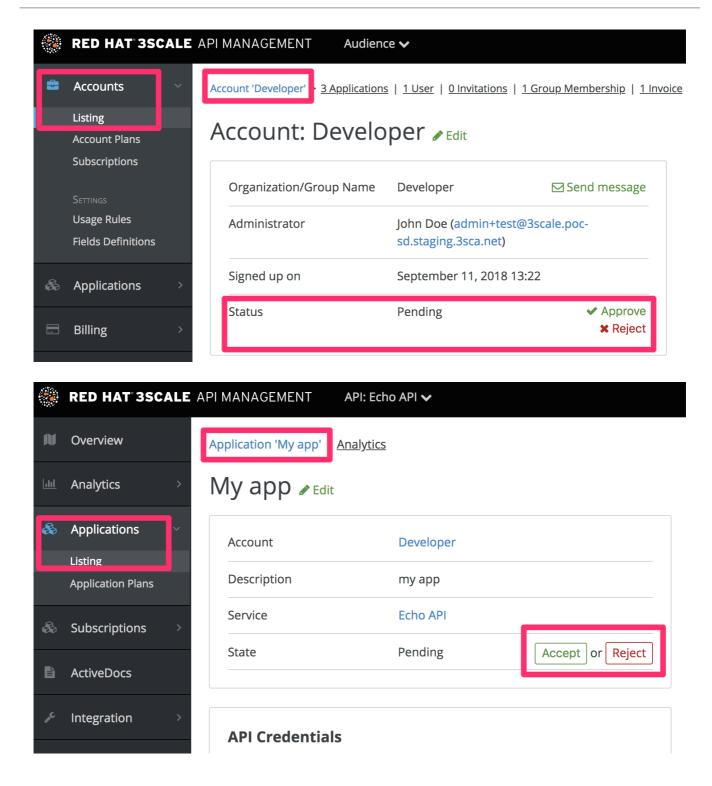
To search for applications or filter all applications that are in a "pending" (for approval) state:

- 1. Navigate to Audience > Applications > Listing.
- 2. Select "pending" in the dropdown list *State* and click **Search**.

You can select one application or several at a time and perform a bulk approval.

RED HAT SSCALE	API MANAGEMENT Audien	ce 🗸						¢	0	÷		
🚔 Accounts >	Applications											
Applications Listing	Bulk operations											
Alerts	You have selected 1applications	erform bull			rs of selected a	oplications						
🚓 Portal >	Change application plan	/		Transfer these appl			plan					
Messages >	Change state	Change state Accept, suspend or resume selected applications										
	Filter for the required state Name State Aurofunt Service Plan Paid? ? Consted At Traffic On											
		pending 🔻		Y	v	v			Sear	rch		
	🕑 barba papa's App	live	barba papa	Echo API	Unlimited	free	October 25, 2018					
	Feasible Inc.'s App	live	Feasible Inc.	Echo API	Basic	free	October 25, 2018					
	 Developer's camel-rest-sql App 	live	Developer	camel-rest-sql	Default	free	October 11, 2018					
	Developer's App	live	Developer	Echo API	Basic	free	September 11, 2018	September 11, 2018				

You can also start from the details page for a developer account, select which application you wish to approve from there, and make the approval on the application details page.



CHAPTER 3. CHANGING PLANS FOR AN APP

After this section you will be able to change plans for accounts, services or applications

As admin you may change plans for a developer at any time, or in response to a plan change request that the developer initiates.



NOTE

The change plans step is slightly different depending on what type of plans are being changed.

3.1. CHANGE ACCOUNT PLANS

To search or filter specific accounts, navigate to Audience > Accounts > Listing.

You can select one or more rows at a time, and change the plans.

۲	RED HAT SSCALE	API MANAGEMENT	Audience 🗸							
-	Accounts ~ Listing	Accounts								
	Settings Usage Rules	Bulk operations								
	Fields Definitions	You have selected 2 a	ccounts and you can mak	ke following operations w	vith them:					
&	Applications >	Send email		Se	Send email to selected accounts					
	Billing >	Change account plan		Tr	ransfer these accounts to differer	nt account plan				
.#h	Portal >	Change state		A	pprove, reject or make pending s	elected accounts				
	Messages >	Group/Org.	Admin	Signup Date	Plan	Apps				
		Search for Group/Org	g., User login, First name	e, La		v				
		Feasible Inc.	feasible	25 Oct, 2018	Default	1				
		Developer	John Doe	11 Sep, 2018	Default (custom)	2				

3.2. CHANGE SERVICE PLANS

To search or filter specific subscriptions to a service, navigate to **Audience > Accounts > Subscriptions**.

You can only view subscriptions if you have enabled Service Plans in the Settings page.

You can select one or several subscriptions at a time, and change the plans.

	RED HAT SSCALE	ΑΡΙ ΜΑ		lience 🗸				
-	Accounts ~ Listing	Sei	rvice Subsci	riptions				
	Subscriptions	Bulk	operations					
	Settings Usage Rules	You h	nave selected 1 service	subscriptions and you can make	e following operat	tions with them:		
	Fields Definitions	Send	d email		Send er	mail to selected su	bscribers	
&	Applications >	Char	nge service plan		Transfe	r these subscriptic	ons to different se	rvice plan
	Billing >	Char	nge state		Accept,	suspend or resum	e selected subscr	iptions
4	Portal >							
	Messages >		Account	Service	Plan	State	Paid? 🕐	Created On
		[•	v	V	v	
			barba papa	Echo API	Default	live	free	October 25, 2018
		Ø F	Feasible Inc.	Echo API	Default	live	free	October 25, 2018
			Developer	camel-rest-sql	Default	live	free	October 11, 2018
			Developer	Echo API	Default	live	free	September 11, 2018

3.3. CHANGE APPLICATION PLANS

To search or filter specific applications, navigate to Audience > Applications > Listing.

You can select one or several applications at a time, and change plans.

	RED HAT 3SCAL	E API	MANAGEMENT Audience	e 🗸									
8	Accounts >	A	pplications										
80	Applications V		ulk operations	and you can mal	ro following on	orations with them:							
	Alerts		ou have selected zapplications a	and you can mar	te ronowing op	erations with them.							
	Billing >	\$	Send email			Send email to owne	ers of selected ap	oplications					
#	Portal >		Change application plan	ange application plan Transfer these applications to different application plan									
	Messages >	C	Change state Accept, suspend or resume selected applications										
			Name	State	Account	Service	Plan	Paid? ?	Created At				
				All v		V		v					
			Feasible Inc.'s App	live	Feasible Inc.	Echo API	Basic	free	October 25, 2018				
			Developer's camel-rest-sql App	live	Developer	camel-rest-sql	Default	free	October 11, 2018				
			Developer's App	live	Developer	Echo API	Basic	free	September 11, 2018				

Another scenario is to start from the details page for a developer Account. From there you select the application for which you wish to change plan. On the application details page, you can change the plan.

🛞 RED HAT 3SCALE A		API: Echo API 🗸			¢ 0	å
N Overview	Application 'Metro's App	' Analytics				
International Analytics	Metro's App	🖋 Edit				
🗞 Applications 🗸	Account	Metro		Application Plan: Unlimited		
Listing Application Plans	Description	Default application cr	reated on signup.	• Convert to a Custom Plan		
🗞 Subscriptions >	Service	Echo API		Features		
L ActiveDocs	State	Live	Suspend	Unlimited Greetings	0	
				24/7 support	Ø	
F Integration >	API Credentials			Unlimited calls	Ø	
	User Key	XXXXXXXXXX 🖋	C Regenerate			
				Change Blan	-	
	Usage in last 30	Days		Basic ✓ Plan A Plan B]	

3.3.1. More Information

If rather than change to another standard plan, you only want to make a change for one specific app, you can use the customize plans feature.

CHAPTER 4. CONTACTING DEVELOPERS

This guide explains how to find out which developer account manages a particular application and then communicate with them – both through 3scale and externally.

During API operations, you may urgently need to contact developers who are using your API.

4.1. STEP 1: LOCATE THE RELEVANT APPLICATION AND ACCOUNT IN THE SYSTEM

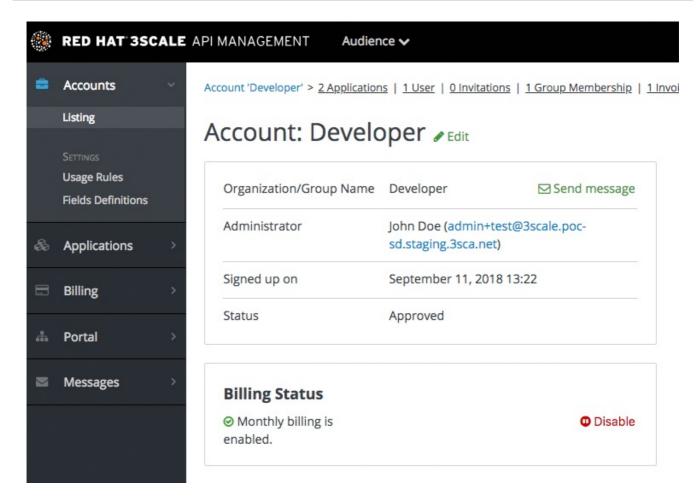
If you already know the account and developer who manages the application in question, navigate to their account from the Accounts page in **Audience > Accounts > Listing**, as shown below.

	RED HAT 3SCALE	API MA	NAGEMENT A	udience 🗸						٥	0	2
=	Accounts ~	Ac	counts									
	Listing		Group/Org.	Admin	Signup Date	Plan	Apps	State			O Creat	te
	SETTINGS Usage Rules Fields Definitions	Sear	rch for Group/Org., l	Jser login, First name,	La		v		٣		Search	
			Feasible Inc.	feasible	25 Oct, 2018	Default	1	Approved				
æ	Applications >		Developer	John Doe	11 Sep, 2018	Default (custom)	2	Approved				

If you only have the application ID or API key, you can use the search box on the Accounts page in **Audience > Accounts > Listing** to find the relevant account. More information on locating applications is available here.

4.2. STEP 2: SEND INTERNAL MESSAGES TO DEVELOPERS

Once you are in the account profile page as shown below, click the message icon.



The message created here will be sent both to the account system dashboard, where all developers on the account will see it, and by email to the people on the developer account who have admin status within the account.

4.3. STEP 3: CONTACT BY OTHER MEANS

If it's an emergency and email is unlikely to be fast enough for your purposes, you can also use the contact information submitted by the developer at time of signup, which is available:

- On the company account page (general contact information but may include a phone number)
- Developer/user specific information on the users' own file

Note that you can make contact phone numbers a required field upon signup.

CHAPTER 5. CUSTOMIZE PLANS

When you have completed this section you will have customized an application plan for a specific developer.

Application plans are a good way to apply standard policies for different segments of your developer community. However, you always have the flexibility to customize the standard plans for any individual developer with unique requirements.

Once a plan is customized, you lose the link to the original plan. If you make changes to the original plan, the custom plan does not inherit any of those changes. So you should use this customization feature sparingly, before you become overwhelmed with too many custom plans which you cannot manage effectively.

A developer wants to increase their current limits without upgrading to the next pricing tier as the current billing period is already under way. A customization could be a good way to handle this situation by enabling the increase in limits and charging only the variable costs incurred. This would also help encourage an upgrade for the following billing month.

5.1. STEP 1: CHOOSE THE ACCOUNT

To view the details page for the developer Account you are interested in:

- 1. Navigate to Audience > Accounts > Listing
- 2. Choose the Developer account

🛞 RED HAT SSCALE	API MA		udience 🗸						٠	0	4
🖆 Accounts 🖂	Ac	counts									
Listing		Group/Org.	Admin	Signup Date	Plan	Apps	State			O Crea	te
Settings Usage Rules Fields Definitions	Sea	rch for Group/Org., L	Iser login, First name, I	La		×		Y		Search	h
		Feasible Inc.	feasible	25 Oct, 2018	Default	1	Approved				
line Applications >		Developer	John Doe	11 Sep, 2018	Default (custom)	2	Approved				

5.2. STEP 2: SELECT THE APPLICATION

Select the application whose plan you wish to customize.

۲	RED HAT SSCALE	API N		Audience 🗸						٥	0 🎍
=	Accounts	Acc	ount 'Developer' : 2 Ap	plications <u>1 User</u>	0 Invitations 1 Group M	embership <u>1 Invoice</u>	e <u>1 Service Subscri</u>	ption			
L	Listing Account Plans		Name	State	Service	Plan	Paid? ?	Created At	Traffic On	O Create A	pplication
	Subscriptions			All		·	•				Search
	Settings Usage Rules		Foobar App	live	Echo API	Unlimited	free	October 26, 2018			
	Fields Definitions		Developer's App	live	Echo API	Basic	free	September 11, 2018	September 11, 2018		

5.3. CUSTOMIZE THE APPLICATION PLAN

Select the option to "customize". This provides the page where all the plan elements can be customized for the application owned by this account.

۲	RED HAT 3SCALE	API MANAGEMENT	API: Echo API 🗸			¢ 0 å
N	Overview	Application 'Metro's Ap	pp' Analytics			
<u>_111</u>	Analytics >	Metro's App	🕽 🖋 Edit			
&	Applications ~	Account	Metro		Application Plan: Unlimited	
	Listing Application Plans	Description	Default application	created on signup.	Convert to a Custom Plan	
æ	Subscriptions >	Service	Echo API		Features	
ß	ActiveDocs	State	Live	Suspend	Unlimited Greetings	0
					24/7 support	0
₽¢.	Integration >	API Credential	s		Unlimited calls	\odot
		User Key		CRegenerate	Change Plan	
		Usage in last 30) Days			~
				Hits		
				0 hits		Change Plan
		Current Utilizat	tion ed application, there are no l	imits defined		

5.3.1. More Information

Before you take the step to customize plans, always consider first if you are not better off with a new standard plan (which can be hidden from display in the Developer Portal). Then you would just change to the standard plan and so gain the benefit of reuse if this applies to more than one of your developer partners.

CHAPTER 6. ENABLE SIGNUP

Configure developer signup by implementing self-service or manual mode.

You can configure the workflow for developers to be self-service or by manual invite only. Self-service signups are done by developers through the Developer Portal, while manual invites are handled by your admins through the Admin Portal.

By default, the checkbox toggle is set to enabled. To do so, navigate to **Audience > Accounts > Settings > Usage Rules**.

	RED HAT SSCALE	API MANAGEMENT Audience 🗸
â	Accounts ~ Listing Settings	Usage Rules
	Usage Rules Fields Definitions	Allow the user to edit their submitted details, change passwords, etc. Only disable this if you provide another way to manage this information (e.g. via the User Management API).
æ	Applications >	SIGNUP
	Billing >	Developers are allowed sign up themselves
ሔ	Portal >	
	Messages >	USERS Strong passwords
		Require strong passwords from your users: Password must be at least 8 characters long, and contain both upper and lowercase letters, a digit and one special character of -+=><_\$#::;!?@&*()~][}{ . Existing passwords will still work.

CHAPTER 7. FINDING APPLICATIONS

By the end of this guide, you'll be able to quickly locate an application in the Dashboard based on either its name, an API key, or an application identifier.

During API operations, you may need to be able to find information on an application that is accessing your API quickly – either for support purposes, to change configuration, or potentially because the application is misbehaving and needs to be disabled.

7.1. STEP 1: GET THE INFORMATION YOU NEED

To find an application, you need the name of the account it belongs to or the application's name. If you do not have this information, you can verify the access logs. To perform the search, navigate to Applications (Audience > Applications > Listing).

If you search by identifier for an authentication type, you need the following information:

- For API key-only authentication patterns: the API key
- For app ID and app key authentication patterns: the app identifier (search by app key is not supported)
- For OpenID Connect authentication patterns: the client_id (search on the secret is not supported)

7.2. STEP 2: SEARCH FOR THE APPLICATION

To search a given application, navigate to Applications page (**Audience > Applications > Listing**), and use the search box as shown in the image below.

	RED HAT SSCALE	APIN	MANAGEMENT Audienc	e 🗸		
•	Accounts >	A	pplications			
80	Applications ~		Name	State	Account	Service
	Listing			All		· · · · · · · · · · · · · · · · · · ·
	Alerts			All		
	Billing >		Feasible Inc.'s App	live	Feasible Inc.	Echo API
*	Portal >		Developer's camel-rest-sql App	live	Developer	camel-rest-sql
	Messages >		Developer's App	live	Developer	Echo API

7.3. STEP 3: ACCESS APPLICATION INFORMATION

Once the results are returned, click on the application you'd like to access and you'll be taken to that application's homepage, which includes information such as that shown in the image below.

	RED HAT 3SC	ALE	API M	IANAGEMENT	Audience	~				
•	Accounts	>	Ap	oplications						
&	Applications	~		Name		State		Account	Service	
	Listing									
	Alerts					All	Ŧ			Ψ
	Billing	>		Feasible Inc.'s App		live		Feasible Inc.	Echo API	
æ	Portal	>		Developer's camel App	st-sql	live		Developer	camel-rest-sql	
	Messages	>		Developer's App	Sele	ct [\] the	App	tocheck	Echo API	

CHAPTER 8. INVITING DEVELOPERS

After completing these steps, you will have added a new developer user to a developer account.

When you create a developer account manually, you can invite developer users to that account through the Admin Portal:

- 1. Navigate to Audience > Accounts > Listing.
- 2. Choose the account in question.
- 3. Select "Invitations" and then click **Invite user**.

RED HAT SSCALE	API MANAGEMENT Audio	ence 🗸			٥	0	*
Accounts ~	Account 'Developer' > 2 Applicati	ons <u>1 User</u> 0 Invitations <u>1 Gro</u>	up Membership <u>1 Invoice</u> <u>2 Service Subsc</u>	riptions			
Listing	Sent invitation	ent invitations for Developer					
Settings Usage Rules Fields Definitions	Recipient	Sent	Accepted?		c	Invite us	er

CHAPTER 9. UNSUBSCRIBING DEVELOPERS FROM A SERVICE

As an admin, you can unsubscribe developers from a service. You may need to do this for one specific developer, or for multiple developers, in the event of a service deprecation.

9.1. UNSUBSCRIBING A SINGLE DEVELOPER FROM SERVICES

Unsubscribe a single developer from a service they are subscribed to through the admin portal:

- 1. In the Admin Portal, navigate to Audience > Accounts > Listing > [select an account] > Service Subscriptions.
- 2. Select **Unsubscribe** for the service that you want to remove the developer from.

9.2. UNSUBSCRIBING MULTIPLE DEVELOPERS FROM SERVICES

Perform a bulk action to unsubscribe multiple developers from a deprecated or deleted service:



NOTE

This method only applies to services that have been deleted or suspended. You cannot perform a bulk unsubscription action on active services.

- 1. In the Admin Portal, navigate to: Audience > Accounts > Subscriptions.
- 2. Do bulk state change.
- 3. Using the service dropdown menu, identify the service from which you want to unsubscribe developers.
- 4. Using the checkboxes on the left, select the developers you want to unsubscribe.
- 5. Select **Change State > Suspend** to suspend the selected developer subscriptions.

Remember that service plans need to be enabled.

CHAPTER 10. SUSPENDING APPLICATIONS

This guide explains how to disable all keys and access tokens for an application.

If an application is misusing your API and affecting other traffic, you may need to quickly suspend its operations before contacting the developer involved to ask them to amend their code or configuration.

10.1. STEP 1: FIND THE APPLICATION

You can find the application from the **Accounts** or **Applications** tabs or by searching as described here.

10.2. STEP 2: DISABLE THE APPLICATION

Once you have located the application and see the application summary page, click on the suspend icon next to the 'State' value. This action will immediately disable the application from the API and suspend all keys from working. Calls with these application keys will be rejected by the control system.

The application can be unsuspended using the same button once the problematic behavior has been rectified.

*	RED HAT SSCALE	API MANAGEMENT	API: Echo API 🗸	
N	Overview	Application 'Developer'	's App' <u>Analytics</u>	
Ш	Analytics >	Developer's	SAPP / Edit	
&	Applications	Account	Developer	
	Listing			
	Application Plans	Description	Default application cro	eated on signup.
Bì	ActiveDocs	Service	Echo API	• • • • • • • • • • • • • • • • • • • •
r	Integration >	State	Live	O Suspend
		API Credential	S	



NOTE

If you use caching in your agents, suspension may not be immediate but require a short timeout.

10.3. STEP 3: CONTACT THE DEVELOPER

How you contact the developer of the application will depend on your workflow and policy. On the same page, you can click on the account name, which will take you to the account view where you can identify the key administrator of the account that owns the application. You can contact them either by email or

by clicking on the send message button as shown, which will generate a dashboard message for the user.

Accounts ~	Account 'Developer' > <u>2 Application</u>	<u>is 1 User 0 Invitat</u>	ions <u>1 Group Membership</u>
isting	Account: Dovolo	por	
Settings	Account: Develo		
Jsage Rules ïelds Definitions	Organization/Group Name	Developer	Send message
oplications >	Administrator	John Doe (admin+ sd.staging.3sca.ne	
illing >	Signed up on	September 11, 20	18 13:22
	Status	Approved	
ortal >			
essages >	Billing Status		
	⊘ Monthly billing is enabled.		O Disable

CHAPTER 11. DELETING APPLICATIONS

To delete an application via the Admin Portal, you need to follow these steps:

Option 1: Delete an application from the list of all applications for [Your_API_name].

- 1. In the Dashboard, click [Your_API_name].
- 2. Click the **Overview** tab.
- 3. From the left panel on the Overview page, click Applications.
- 4. Choose Listing.
- 5. Click on an application.
- 6. You will see a page containing details of the application. Click **Edit**.
- 7. To delete the application, click **Delete**.
- 8. You will see a confirmation message. Click **Ok** to confirm the deletion.

Option 2: Delete an application based on a specific application plan.

- 1. In the Admin Portal, click **Dashboard**.
- 2. Choose API.
- 3. Under Published Application Plans, choose an application.
- 4. Click on an application.
- 5. You will see a page containing details of the application. Click Edit.
- 6. To delete the application, click **Delete**.
- 7. You will see a confirmation message. Click **Ok** to confirm the deletion.

Alternatively, you can also delete an application via 3scale API Docs, with the operation called **Application Delete**.

Master

CHAPTER 12. MULTITENANCY

Red Hat 3scale API Management allows multiple independent instances of 3scale accounts to exist on a single on-premises deployment. Accounts operate independently from one another, and cannot share information among themselves.

12.1. MASTER ADMIN PORTAL

A master administrator monitors and manages the 3scale accounts through the Master Admin Portal and API endpoints. Similar to the standard Admin Portal, the Master Admin Portal contains information about all accounts in a deployment and allows for administration of accounts and users through a unique account page.

For details on account administrator operations, refer to the Accounts guide.

12.1.1. Accessing the Master Admin Portal

To access the Master Admin Portal, you need to use the credentials and URL specifically defined for the Master Admin Portal during the on-premises installation process.

The Master Admin Portal URL consists of the **MASTER_NAME** (*master* by default in the template) and the **WILDCARD_DOMAIN**:

<MASTER_NAME>.<WILDCARD_DOMAIN>

You can identify the Master Admin Portal by the Master flag.

🛞 RED HAT 3SCALE API MANAGEMENT 🛛 💣 Dashboard 🗸

12.1.2. Adding an account through the Master Admin Portal

To add an account through the Master Admin Portal, follow these steps:

- 1. Log in to the Master Admin Portal.
- 2. Navigate to Accounts.
- 3. Click Create.
- 4. Indicate the required information for the user:
 - a. Username
 - b. Email
 - c. Password
 - d. Password confirmation
- 5. Indicate the required information for the organization:
 - a. Organization/Group Name

6. Click Create.

After these steps, Red Hat 3scale creates an account subdomain for your account based on the **Organization/Group Name** field. Additionally, you can see a page containing the details of the account you created.

12.2. MANAGING ACCOUNTS

You can manage accounts through the Master Admin Portal or through API calls.

12.2.1. Managing accounts through the Master Admin Portal

To manage the accounts through the Master Admin Portal, you need to do the following:

- 1. Log in to the Master Admin Portal.
- 2. Navigate to the **Accounts** page.
- 3. Select the group or organization you want to manage.

From the **Accounts** page, you can perform administrative actions, such as impersonating an admin account or suspending an account. You can also manage the following account attributes:

- Applications
- Users
- Invitations
- Group Memberships
- Organization/Group Name

12.2.2. Managing accounts through API calls

You can manage accounts through the Master Admin API calls. For information on these calls, refer to the **Master API** section, by clicking the question mark (?) icon located in the upper-right corner of the Master Admin Portal, and then choosing **3scale API Docs**.

Master API	
Trigger Billing by Account	<pre>/master/api/providers/{provider_id}/accounts/{account_id}/billing_jobs.xml POST</pre>
Trigger Billing	<pre>/master/api/providers/{provider_id}/billing_jobs.xml POST</pre>
Tenant Create	/master/api/providers.xml POST
Tenant Update	/master/api/providers/{id}.xml
Tenant Delete	/master/api/providers/{id}.xml DELETE

12.3. UNDERSTANDING MULTITENANCY SUBDOMAINS

As a result of multiple accounts existing under the same OpenShift cluster domain, individual account names prepend the OpenShift cluster domain name as subdomains. For example, the route for an account named **user** on a cluster with a domain of **example.com** appears as:

user.example.com

A standard multitenant deployment will include:

- A master admin user
- A master admin portal route, defined by the **MASTER_NAME** parameter:

<MASTER_NAME>.<WILDCARD_DOMAIN>

- An account admin user
- An account admin portal route, defined by the **TENANT_NAME** parameter:

<TENANT_NAME>-admin.<WILDCARD_DOMAIN>

• A developer portal route for the account:

<TENANT_NAME>.<WILDCARD_DOMAIN>

• Routes for the production and staging built-in APIcast gateway:

<API_NAME>-<TENANT_NAME>-apicast-staging.<WILDCARD_DOMAIN> <API_NAME>-<TENANT_NAME>-apicast-production.<WILDCARD_DOMAIN>

This example illustrates the output users and routes of a standard multitenant deployment of 3scale:

```
----
--> Deploying template "3scale-project/3scale-api-management" for
"amp.yml" to project project
```

3scale API Management
----3scale API Management main system

Login on https://user-admin.3scale-project.example.com as admin/xXxXyz123

* With parameters:

. . .

. . .

- * ADMIN_PASSWORD=xXxXyz123 # generated
- * ADMIN_USERNAME=admin
- * TENANT_NAME=user

* MASTER_NAME=master

- * MASTER_USER=master
- * MASTER_PASSWORD=xXxXyz123 # generated

--> Success Access your application via route 'user-admin.3scaleproject.example.com' Access your application via route 'master-admin.3scaleproject.example.com' Access your application via route 'backend-user.3scaleproject.example.com' Access your application via route 'user.3scaleproject.example.com' Access your application via route 'api-user-apicaststaging.3scale-project.example.com' Access your application via route 'api-user-apicastproduction.3scale-project.example.com' Access your application via route 'apicast-wildcard.3scaleproject.example.com' . . .

Additional accounts added by the master admin will be be assigned a subdomain based on their names.

12.4. DELETING TENANT ACCOUNTS

12.4.1. Deleting an account via the Admin Portal

With this procedure, accounts are scheduled for deletion and will be deleted after 15 days. During the time it is scheduled for deletion:

- Users cannot log in to the account.
- The account can not be edited; but the master can resume the account to the *approved* status.

Additionally, the domains of the tenant (admin domain and developer portal) are not available, similar to a real deletion.

Prerequisites:

• Log in to your master admin account.

Procedure

- 1. To see the list of accounts, navigate to Accounts.
- 2. Click the account you want to delete.
- 3. Click Edit, next to the account's name.
- 4. In the accounts details page, click the **Delete** icon.
- 5. Confirm the deletion.

12.4.2. Deleting a tenant via the console

If you want to delete the account with an immediate effect, you can do so via the console:

1. Open the console with these commands:

```
oc rsh -c system-master "$(oc get pods --selector
deploymentconfig=system-app -o name)"
bundle exec rails console
```

2. Delete immediately with these lines:

```
tenant = Account.find(PROVIDER_ID)
tenant.schedule_for_deletion!
DeleteAccountHierarchyWorker.perform_later(tenant)
```

This is how each line works:

- Line 1: finds the account and saves it in the variable tenant.
- Line 2: schedules the account for deletion. This is only necessary if you have not scheduled the deletion through the Admin Portal.
- Line 3: deletes the tenant in a background process only if you have scheduled the account for deletion or it is suspended. Deletion will not proceed if the account is in *approved* status.

12.5. RESUMING TENANT ACCOUNTS

Resuming a tenant account implies restoring an account scheduled for deletion. You can resume a tenant account up to 15 days after you have scheduled it for deletion.

After resuming an account:

- All previous apps exist.
- All historical stats remain.
- All tokens that should be valid are valid again.
- Apps start authorizing again.

Prerequisites:

• Log in to your master admin account.

Procedure

- 1. To see the list of accounts, navigate to Accounts.
- 2. Click the account you want to delete.
- 3. Under the account details, click **Resume**.
- 4. Click **Ok** to confirm you want to resume the account.

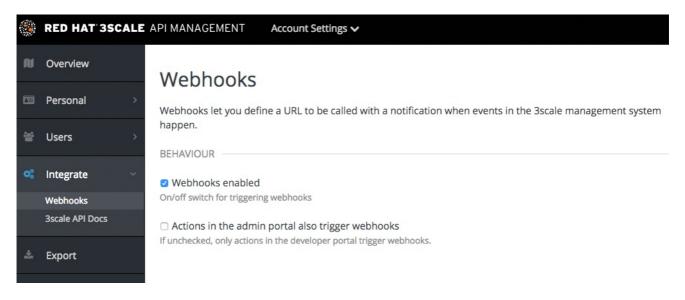
CHAPTER 13. WEBHOOKS

By the end of this section, you'll be able to configure and take action on the webhooks in **Developer Portal**.

The use of webhooks allows you to tightly integrate 3scale with your back-office workflow. When specified events happen within the 3scale system, your applications will be notified with a webhook message, and you can use the data such as from a new account signup to populate your CRM system.

13.1. INTRODUCING WEBHOOKS

A webhook is a custom HTTP callback triggered by an event. In the 3scale system, all the possible events are displayed in **Account Settings** (gear icon in the top right corner) > **Integrate** > **Webhooks**.



When one of these events occurs, the 3scale system makes an HTTP (or HTTPS) request to the URI configured in the webhooks section. On your end, you can configure the listener to invoke some desired behavior such as event tracking.

The remaining two checkboxes on the screenshot turn on webhooks ("Webhooks are" switch) and allow webhooks to be fired by actions in the Admin Portal. The default behavior is to trigger webhooks only by actions triggered from within the Developer Portal. Bear in mind that this means not all events can be triggered.

13.2. WEBHOOKS FORMAT

The format of the webhook is always the same. It makes a post to the endpoint with an XML document of the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<event>
<type>application</type>
<action>updated</action>
<object>
THE APPLICATION OBJECT AS WOULD BE RETURNED BY A GET ON THE ACCOUNT
MANAGEMENT
API
</object>
</event>
```

The <type> gives you the subject of the event such as "application", "account", etc. The <action> – what has been done such as "updated", "created", "deleted". Finally the <object> is the XML object itself in the same format that is returned by the Account Management API. To check this, you can use our interactive ActiveDocs, available in your Admin Portal, under the question mark (?) icon located in top right corner, and 3scale API Docs.

If you need to provide assurance that the webhook was fired by 3scale, expose an HTTPS webhook URL and add a custom parameter to your webhook declaration in 3scale. For example: https://your-webhook-endpoint?someSecretParameterName=someSecretParameterValue. Decide on the parameter name and value. Then, inside your webhook endpoint, check for the presence of this parameter value.

13.3. TROUBLESHOOTING

If you want to experiment with the webhooks or troubleshoot issues, you may find RequestBin a great (and free) service to view the results of the webhooks: http://requestb.in/

If you experience an outage for your listening endpoint, you can recover failed deliveries. 3scale will consider a webhook delivered if your endpoint responds with a 200 code. Otherwise, it will retry 5 times with a 60 seconds gap. After any recovery from an outage, or periodically, you should run a check and if applicable clean up the queue. You can find more in the ActiveDocs for the two methods:

- Webhooks list failed deliveries
- Webhooks delete failed deliveries