



Kaui Guide

© 2022 The Billing Project, LLC

May 2022

Table of Contents

Introduction	1
What Is Kauï?	1
How to Use This Guide	1
About Screenshots	2
Other Learning Resources	2
Getting Started	4
First-Time Login	4
Log In to Kauï	4
Log Out of Kauï	5
Homepage Layout	5
Icons	6
Grids/Tables	7
Basic Search	8
Advanced Search	10
Accounts	13
Account Page Layout	13
Create an Account	15
Account Field Descriptions	17
Edit an Account	18
Add Additional Contact Emails	19
Delete Additional Contact Emails	21
Close an Account	21
Link to Parent Account	22
Add Credit to an Account	24
Create a Charge on an Account	25
Payment Methods	28
About Payment Plugin Names	28
View Payment Method Details	28
Set a Payment Method as the Default	29
Add Payment Method	29
Applying Transactions to a Payment Method	31
Process Transaction Field Descriptions	33
Delete Payment Method	34
Subscriptions	36
Overview	36
Open Subscriptions Page	36
Add a Subscription	36
Add Subscription Field Descriptions	37

Add an Add-On Product to a Subscription	38
Add New Add-On Field Descriptions	38
Pause/Resume Subscriptions	39
Change a Subscription	40
Cancel a Subscription	42
Update the Billing Cycle Day	43
Invoices	45
Invoices Page	45
Invoice Details Page	45
Open Invoice Details	46
Make a Payment on an Invoice	46
Process Payment Field Descriptions	47
Write Off or Void an Invoice	48
Pay All Unpaid Invoices	50
Generate a Dry-Run Invoice	51
Payments	53
Payments Page	53
About Automatic Invoice Payments	53
Payment Details Page	54
Open Payment Details	54
Refund a Payment	55
Process Refund Field Descriptions	56
Perform a Chargeback	57
Timeline	59
Tenants	61
Overview	61
Additional Tenant Resources	61
Create a Tenant	61
Tenant Configuration Page	62
Add an Allowed User to the Tenant	64
Remove a User from the Tenant	64
Users, Roles, and Permissions	66
Overview	66
Before You Begin	66
Additional Resources	66
Create a User Role	67
Open the User List	67
Add a User	68
Edit a User	69
Add New User Field Descriptions	70
Delete a User	70

Catalog	72
Overview	72
Additional Catalog Resources	72
View Catalog Products and Plans	72
Create a Simple Catalog	73
Catalog Configuration Field Descriptions	74
Add a Currency to a Plan	75
Upload an XML Catalog	75
View the Catalog as XML	77
Delete a Catalog	78
Download the Catalog	79
Overdue	80
Overview	80
Additional Overdue Resources	80
View Overdue Configuration	80
Create Overdue Flows	81
Overdue Configuration Field Descriptions	82
Upload an XML Overdue Configuration File	83
View Overdue Configuration as XML	85
Delete Overdue Flows	85
Translation Files	87
Overview	87
Additional Translation Resources	87
View Translation Tabs	87
Upload a Translation File	88
Tags	90
Overview	90
Additional Tag Resources	90
View All Tags	91
View Objects with Attached Tags	91
Add a Tag Definition	92
Delete a Tag Definition	94
Attach or Remove a Tag	94
Custom Fields	96
Overview	96
Additional Custom Tag Resources	96
View All Custom Fields	96
View Custom Fields for an Account	97
Create and Attach a Custom Field	97
Custom Field Descriptions	98
Plugin Manager	99

Install a Plugin	99
Analytics	100

Introduction

What Is Kaui?

"Kaui" (KAUI) stands for Kill (Bill) Admin User Interface. This self-contained web application interacts with Kill Bill over HTTPS.

Backoffice staff (for example, Support or Finance) will find Kaui useful to process refunds, credits, chargebacks, and so forth. Kaui also enables the Kill Bill administrator to perform more advanced tasks, such as managing tags, uploading a catalog, and configuring the tenant(s).

Other types of users who might find Kaui useful are developers (for testing), operations, and product managers.



Note: For Developers: Kaui functionality is provided via a series of Ruby on Rails mountable engines. You can extend its functionality (for example, to provide a custom UI for your plugins) by mounting your own engine(s).

How to Use This Guide

The first half of this guide explains the more basic components:

- [Getting Started](#)
- [Basic search and Advanced search](#)
- [Accounts](#)
- [Payment methods](#)
- [Subscriptions](#)
- [Invoices](#)
- [Payments](#)
- [Timeline](#)

Advanced and administrative features are covered in the second half of the guide:

- [Tenants](#)
- [Users, roles, and permissions](#)
- [Catalog](#)
- [Overdue](#)
- [Translation files](#)
- [Tags](#)
- [Custom fields](#)



Note: The Plugin Manager and Analytics functionality is currently undocumented.

About Screenshots

The screenshots displayed in this guide may differ from what you see on your Kaui screen. That's because your user permissions control what features you can access (i.e., what you see on the screen).

If you have any questions about why your Kaui screen doesn't match what you see in this guide, ask your Kaui administrator.

Other Learning Resources

Videos

We regularly add new overviews and tutorials to [our YouTube videos](#), so check in from time to time.

Glossary

The terms listed below are used frequently in this guide. We've provided an abbreviated description below. For a full description, see the [Kill Bill Glossary](#).

Account (a.k.a. customer account)

A record that contains details about the customer (name, address, etc.).

Child

An account that is associated with a parent account.

External Key

An alternative unique ID for an object.

Parent

An account that contains one or more child accounts.

Payment Method

A record of the details required for Kill Bill to trigger a payment.

Permissions

In Kill Bill, a defined action that can be performed in a system (for example, `TAG_CAN_ADD` OR `ACCOUNT_CAN_CREATE`). You can assign one or more permissions to a role, which can then be associated with a user. The user can only perform the permissions associated with that role.

Plan

Define how much a customer pays for a product and the frequency of the payment.

Plugin

Software that runs alongside Kill Bill in order to provide additional functionality.

Phase (a.k.a plan phase)

Time periods within a subscription during which certain rules apply.

Subscription

A contract between you (the business) and a customer that associates an account with a plan and a specific start date.

Tag

A property that can be added to an object (for example, an account or a subscription) for information purposes or to affect the behavior of the system.

Tenant

The division or organization that is using Kill Bill as a group of users. Note that an organization can have more than one tenant, as Kill Bill supports multitenancy.

User

A person who logs on to use Kaui.

User Role

A group of permissions that specify which actions the user is allowed to perform in Kaui. A user can have multiple roles. A role can have multiple permissions.

Getting Started

First-Time Login



Note: Authentication is handled by Kill Bill. The method your organization uses to manage users is highly configurable. For information on managing users and permissions, see the [Users](#) chapter.

To log in to Kauí:

1. Type in your username and password, then select the **Sign In** button.

The image shows a 'Login' screen with a light gray background. At the top center is the word 'Login' in red. Below it are two input fields: 'Username' and 'Password', each with a placeholder text ('Username' has 'kauí' and 'Password' has 'password'). At the bottom is a blue rounded rectangular button labeled 'SIGN IN' in white.

Kauí displays the Add New Tenant screen:

The image shows an 'Add New Tenant' screen with a light gray background. At the top center is the title 'Add New Tenant' in red. Below it are three input fields: 'Name' (with value 't_demo'), 'API Key' (with value 't_demo'), and 'API Secret' (with value '*****'). At the bottom is a blue rounded rectangular button labeled 'SAVE' in white.

2. Enter the tenant **Name**, **API Key**, and **API Secret**.



Note: The API key and API secret pair are used in all HTTP requests to ensure that the user issuing the request has the correct permissions to access the tenant.

3. Click the **Save** button.

Log In to Kauí

To log in to Kauí:

1. Type in your username and password, then select the **Sign In** button.

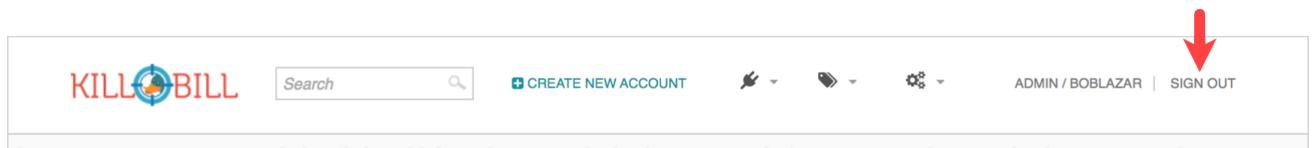
The image shows the Kill Bill login interface. It features a header with the word "Login" in red. Below it are two input fields: "Username" and "Password", each with a corresponding text input box. A teal-colored "SIGN IN" button is positioned below the password field.

2. If your organization uses more than one Kill Bill tenant, select the tenant from the dropdown.
3. Click the **Save** button:

The image shows a "Choose Tenant" dialog box. It has a header with the same red "Choose Tenant" text. Below it is a "Tenant" dropdown menu and a teal "SAVE" button.

Log Out of Kaui

To log out of Kaui, select **SIGN OUT** in the upper right corner of the Kill Bill homepage:



Homepage Layout

The homepage is the screen that Kaui displays after you first log in.

The image shows the Kill Bill homepage layout with various numbered callouts:

- 1**: Search bar placeholder "What are you looking for?"
- 2**: Advanced search link below the search bar.
- 3**: User profile icon.
- 4**: Logout link.
- 5**: Settings gear icon.
- 6**: Admin/Bob Lazar link.
- 7**: Navigation links for "Latest accounts / Latest invoices / Latest payments".
- 8**: A cartoon duck icon with a speech bubble containing the text: "Accounts are searched by default. For complex searches, use Advanced Search."

1. [Basic Search](#)
2. [Advanced Search](#)
3. [Plugin Manager and Analytics](#)
4. [Tags and Custom Fields](#)
5. [Users, Tenants, and Admin](#)
6. Username / Tenant name and [logout](#)
7. Latest invoices, accounts, and payments (latest records created for this tenant)
8. This is Killian, the Kill Bill mascot!

Return to Homepage

From any screen in Kill Bill, you can return to the homepage by clicking the logo in the upper left corner:



Icons

Icon	Description
	Add—Indicates you can add an item, such as a payment method, credit, charge, etc.
	Dry-run invoice—Appears on the Account page. Clicking it manually triggers a committed or dry-run invoice.
	Expand—Expand a section or dropdown menu.
	Collapse—Collapse a section.
	Tags—_Admin-level feature:_ On the home page, click to access Tags, Tag Definitions, and Custom Fields. <i>All users:</i> In other locations in Kauui, click to select a tag to apply to the current object (for example, an account).
	Kauui Package Manager—Appears at the top of the screen and gives you access to plugin specific screens. (Also known as Kill Bill Plugin Manager.)
	Add-on—Appears on the Subscription screen and lets you add an add-on to the account's subscription.

Icon	Description
	Make a payment—Appears on the Invoice screen and lets you make a payment against the invoice.
	Users, Tenants, & Admin—_Admin level feature:_ Appears at the top of the screen and gives you access to Users, Tenants, and Admin.
	<p>Appears in the Payment Methods section of the Account page, clicking the Refresh icon triggers a refresh for each payment plugin installed in Kill Bill, for that account. When you refresh a payment method, Kill Bill retrieves the latest payment information from where it's stored (for example, from Stripe or another payment gateway).</p> <p>Note: This icon does not display if the only payment method listed is EXTERNAL_PAYMENT.</p>

Grids/Tables

Grids (also referred to as *tables*) appear throughout Kaui to keep lists organized:

Showing All Accounts		
ID	EXTERNAL KEY	BALANCE
68b2ba7f-0f6f-4786-9788-8bef3af71676	68b2ba7f-0f6f-4786-9788-8bef3af71676	\$0
ec4d7a66-5eed-4a1d-a290-208c3aaafda24	0585529786	€0
a95d6483-3df1-4d3d-bf6a-1c9a82a229d5	7411156749	\$0
7e050655-f160-428e-8e64-68718a1da147	8473547085	£0
eb8b02dc-42f0-44c3-84ea-5b7b5f91343b	6235981780	€0
ab9f521-25fd-4007-bdca-c4fde5403cqjh	2418455544	€0

For very large grids, use the pagination controls to view different "pages:"

First Previous **2** 3 4 ... 5 Next Last

To sort columns on a grid, click the up/down arrow in that column's header:

Invoices				
NUMBER	DATE	AMOUNT	BALANCE	
18577	2021-06-23	\$4.54	\$4.54	
18576	2021-06-23	\$2.49	\$0	
18575	2021-06-23	\$7.33	\$0	
18574	2021-06-23	\$59.98	\$59.98	



Kaui shows you which column is currently sorted by the purple arrow:

Invoices				
NUMBER	DATE	AMOUNT	BALANCE	
18574	2021-06-23	\$59.98	\$59.98	
18573	2021-06-23	\$59.98	\$59.98	
18538	2021-06-22	\$29.99	\$29.99	
17587	2021-05-29	\$29.99	\$0	



The direction of the arrow (up or down) indicates if the column is sorted in ascending or descending order.

If relevant, you can click a link in the grid to view that item's detail. For example, on the Invoices grid, click the link to open that specific invoice:

Invoices				
NUMBER	DATE	AMOUNT	BALANCE	
18574	2021-06-23	\$59.98	\$59.98	
18573	2021-06-23	\$59.98	\$59.98	
18538	2021-06-22	\$29.99	\$29.99	
17587	2021-05-29	\$29.99	\$0	

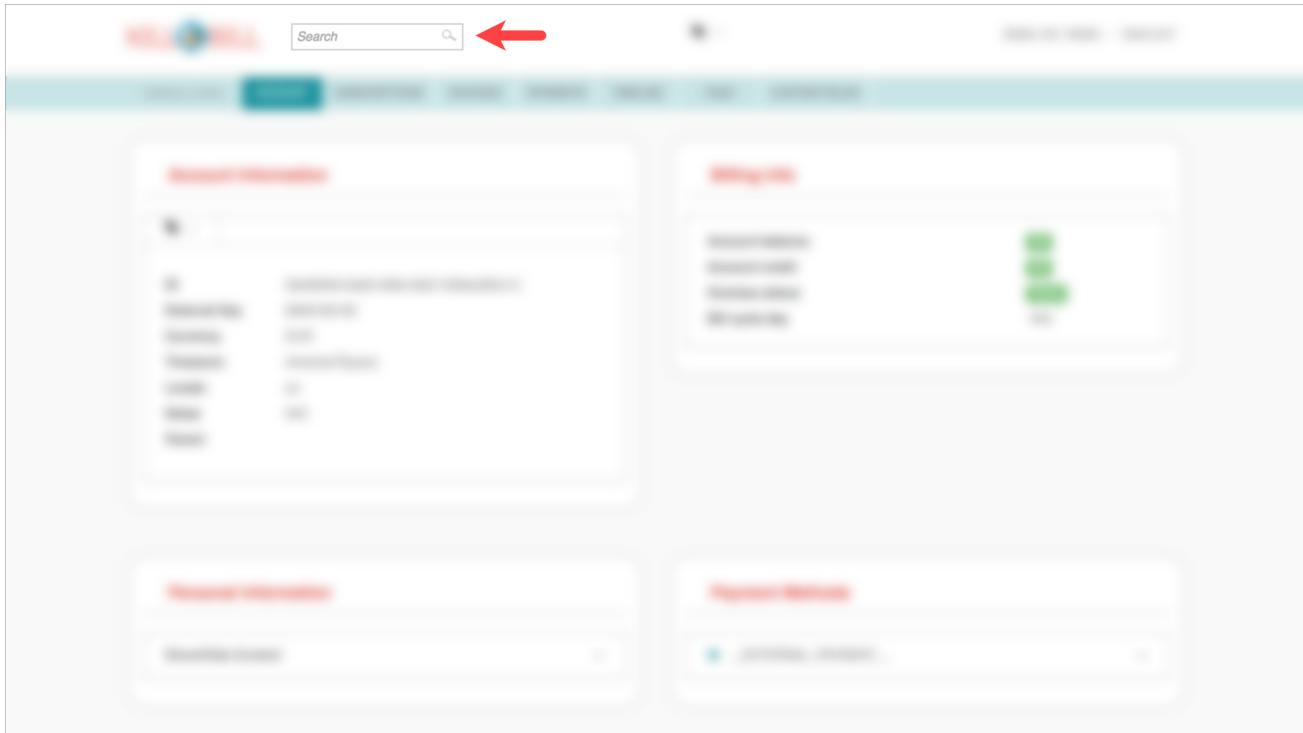


Basic Search



Tip: To view all accounts, place your cursor in the search field and press the Enter key.

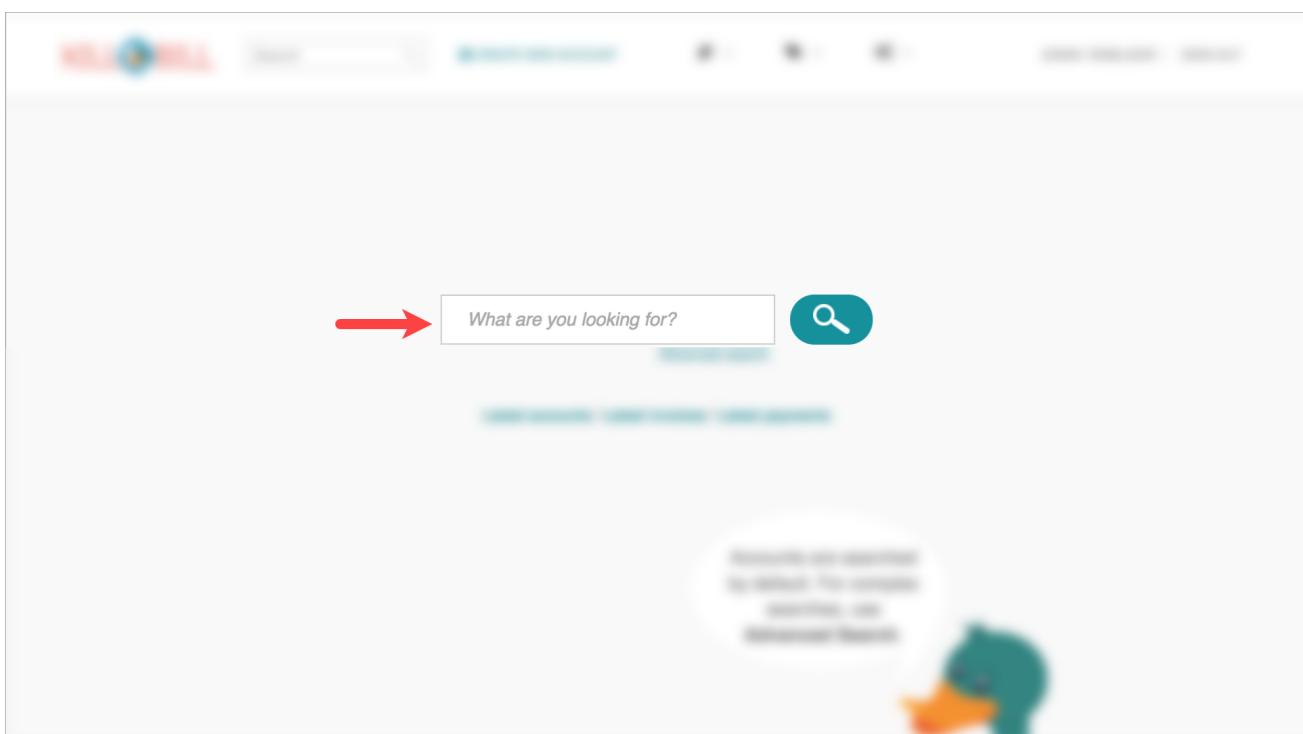
To search for customer accounts, use the basic search. Basic search is available at the top of the screen no matter where you are in Kaui.



You can search for an account using the following criteria:

- Account ID
- External key
- Name
- Email address

Basic search is also available in the center of the **homepage**:



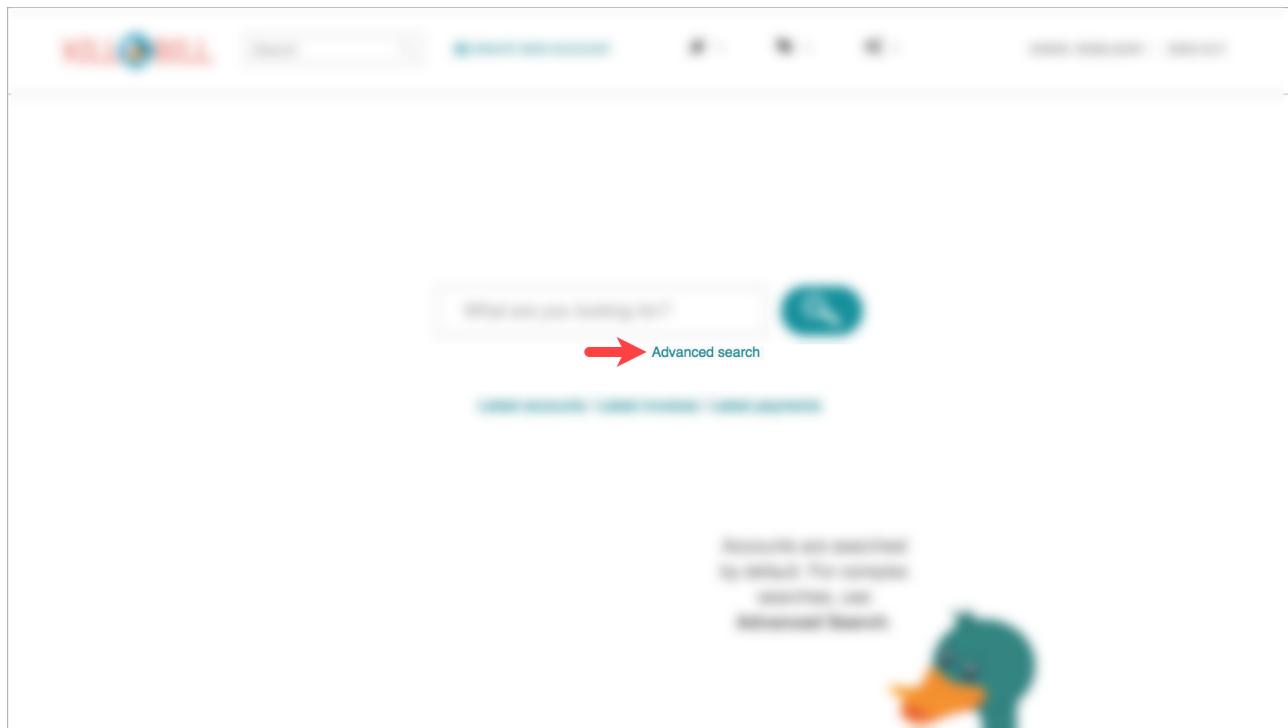
Advanced Search

An advanced search can help you find account information as well as other types of objects in the system:

- Bundle
- Credit
- Custom field
- Invoice
- Invoice payment
- Payment
- Subscription
- Tag
- Tag definition
- Transaction

To perform an advanced search:

1. On the homepage, click **Advanced search**:



Kauai displays the Advanced Search pop-up:

Advanced Search

Search for	<input type="text"/>
Object type	ACCOUNT
Search by	<input type="text"/>
<input type="checkbox"/> Fast search (find first exact match)	
SEARCH	
Search query FIND:ACCOUNT FOR:	

2. In the **Object type** field, select the object type you want to search for:

Advanced Search

Search for	<input type="text"/>
Object type	ACCOUNT ACCOUNT BUNDLE INVOICE CREDIT CUSTOM_FIELD INVOICE_PAYMENT INVOICE PAYMENT SUBSCRIPTION TRANSACTION TAG TAG_DEFINITION
Search query FIND:ACCOUNT FOR:	

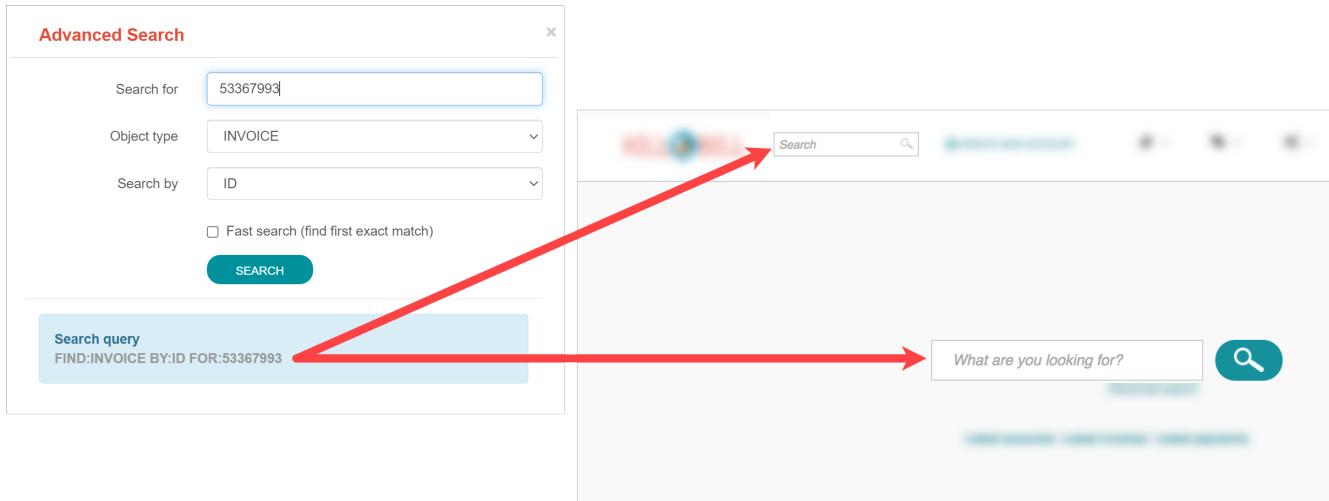


Note: For information on which fields are searched for each object type, see the table in the next section.

3. In the **Search for** field, enter the identifier (ID) of the object you're searching for. (*Example:* If you're searching for a specific invoice, type in the invoice number.)
4. If you want Kaui to search and display the first record in the search results, click the **Fast search** checkbox.
5. Click the **Search** button. Kaui displays the search results.



Tip: At the bottom of the Advanced Search pop-up, Kaui displays the search syntax. You can copy and paste this advanced search syntax into a basic search field. This is helpful if you frequently perform the same kinds of advanced searches. For example:



Searchable Fields by Object Type

Object Type	Searchable Fields
Account	account ID, name, email, company name, external key
Bundle	account ID, bundle ID, external key
Credit	invoice item ID
Custom field	custom field ID, field name, field value, object type
Invoice	invoice number, invoice ID, account ID, currency
Invoice payment	payment ID
Payment	payment ID, external key
Payment method	payment method ID, external key
Subscription	subscription ID, external key
Tag	tag ID
Tag definition	tag definition ID
Transaction	transaction ID, external key

Accounts

This section helps you become familiar with customer accounts and the layout of the Account page.

The Account page provides information about a specific customer, such as email address, physical address, and so forth. It is also the central location for the customer's billing information, subscriptions, invoices, and payment methods.

The next section explains how the Account page is laid out. To skip this and see the task-based steps, see [Create an Account](#).

Account Page Layout

The Account page has the following sections:

1. Sub-menu
2. Account information
3. Billing info
4. Personal info
5. Payment methods

The screenshot shows the Account page interface. At the top, there is a navigation bar with tabs: Katelynn Lemke, ACCOUNT (highlighted in teal), SUBSCRIPTIONS, INVOICES, PAYMENTS, TIMELINE, TAGS, and CUSTOM FIELDS. A red circle with the number '1' is positioned over the CUSTOM FIELDS tab. Below the navigation bar are four main content sections, each with a red circle containing a number corresponding to the list above:

- Account Information (2):** This section displays account details like ID, External Key, Currency, Timezone, Locale, Notes, and Parent. It includes a dropdown menu icon and a 'Show/Hide Content' button.
- Billing Info (3):** This section shows the account balance (\$10), account credit (\$0), and overdue status (Good). It also lists bill cycle day (N/A) and next invoice date (N/A). There is a 'Trigger invoice generation' button with a dry-run checkbox.
- Personal Information (4):** This section contains a 'Show/Hide Content' button.
- Payment Methods (5):** This section lists payment methods, with one method shown as '★ _EXTERNAL_PAYMENT_'. There is a refresh icon next to the list.

1. Account Sub-Menu

The **Account** sub-menu organizes and provides access to different areas of the customer's account:

To see these areas, click the relevant item on the sub-menu. To return to the customer's Account page, click **Account** on the sub-menu.

2. Account Information

This section of the screen displays a summary of the customer's account information, such as their ID, currency, and time zone. To edit this information, click **Edit** next to Account Information.

Here you can perform the following tasks for the customer account:

- [Edit an Account](#)
- [Link to Parent Account](#)
- [Attach a Tag to an Account](#)

3. Personal Information

This section of the screen displays the customer's personal contact information (read only).

By default, Personal Information details are hidden for GDPR Compliance and customer privacy. To see the information, click **Show/Hide Content**.

To edit this information, see the [Edit an Account](#) section.

4. Billing Info

Here you can perform the following tasks for the customer:

- [Pay all unpaid invoices](#)
- [Add a credit](#)
- [Create a charge](#)

You can also see a summary of billing information:

Field	Description
Account balance	Amount of money due on the account, including any account credits.
Account credit	Amount of any money owed to the customer.
Overdue status	<p>The status of the customer's account that indicates if they are overdue or up-to-date on their invoice payments.</p> <p>Note: The account can have a negative account balance, but not be overdue. That's because overdue status depends on invoice due dates and how late payments are defined based on a company's business policy. For example, an invoice may not be overdue if a company allows a 15-day grace period (a.k.a. NET terms) to make a payment.</p>

Field	Description
Bill cycle day (BCD)	The day of the month on which the system generates an invoice for this account. This field applies to accounts that are subscribed to monthly subscriptions (or a multiple of monthly, such as quarterly, annually, etc.). For more information, see the Account Field Descriptions table.
Next invoice date	The date on which the system generates the customer's next invoice.

The **Trigger invoice generation** feature lets you generate an invoice, either as a test or in a committed state.

5. Payment Methods

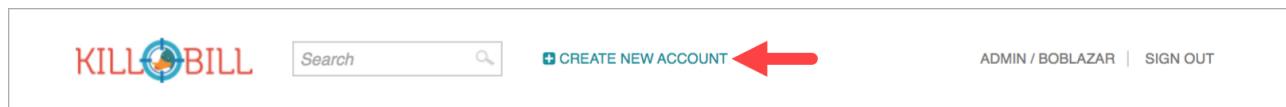
This section of the Account page lets you:

- [Add a payment method](#)
- [Set a payment method as default](#)
- [Delete a payment method](#)
- [Apply a transaction to a payment method \(authorize, charge, credit, etc.\)](#)

For more information on payment methods, see the [Payment Methods](#) chapter.

Create an Account

1. At the top right of the screen, click **Create New Account**:



2. Kauí opens the Add New Account screen:

Add New Account

Name

First name length (?)

External key

Email

Bill cycle day

Currency ▼

Timezone ▼

Locale ▼

Address line 1

Address line 2

Zip code

Company

City

State ▼

Country ▼

Phone

Notes

Migrated?

SAVE

3. Fill in the fields. For field descriptions, see [Account Field Descriptions](#).

4. Click the **Save** button.

Account Field Descriptions

Field	Description
Name	The customer's first and last name.
First name length	This field sets the length of the customer's first name. Kill Bill automatically calculates this number based on the location of the space between the first and last name. You can overwrite it with a different number, if necessary. Note: This field is used if your organization needs to extract customers' first or last names for communication (invoices, emails, etc.). The field lets an organization accommodate variations of names used across the globe.
External key	An optional alternate ID for the account. Once this is saved for the customer, you cannot change it. Tip: The external key feature is helpful if you integrate Kill Bill with another system, such as a CRM, and want to use that system's ID in Kill Bill (for identification, searching, and so forth). Once this is set and saved for the customer, you cannot change it.
Email	The main email address to use for communicating with the customer.
Bill cycle day (BCD)	For monthly or quarterly subscriptions, what day of the month the invoice is created. Once this is saved for the customer, you cannot change it. Note: The system has three types of billing (date) alignment that affect the BCD: ACCOUNT , SUBSCRIPTION , and BUNDLE . For more information about the three billing alignment types, see Catalog Examples and " Billing Alignment Rules " in the <i>Subscription Guide</i> .
Currency	The currency that the customer uses to make purchases. Once this is saved for the customer, you cannot change it.
Timezone	The time zone in which the customer resides. Once this is saved for the customer, you cannot change it.
Locale	Indicates the language that Kaui uses to send communication to the customer (invoices, emails, etc.) If your organization communicates with customers in a language that's different than the system's default language, it's important to select the appropriate locale for the customer. For more information, see the internationalization overview document.
Address line 1 and Address line 2	The street address where the customer resides.
Zip code	The zip code for the area in which the customer resides.
Company	If relevant, the company/organization the customer works for.

Field	Description
City	The city in which the customer resides.
State	The state in which the customer resides.
Country	The country in which the customer resides.
Phone	The customer's phone number.
Notes	Additional information about the account. These notes are not viewable by the customer.
Migrated?	This field is for informational purposes only. You can check this box if you have migrated this customer account into Kill Bill.
Contact email addresses	Additional addresses to which account-related emails will be sent. The email addresses listed here will receive the same emails as the main Email address. For more information, see Add Additional Contact Emails .

Edit an Account

You can make changes to most of the account fields after it has been created.



Note: You cannot change the following fields: Bill Cycle Day, Currency, External Key, and Time Zone.

1. Open the account on the Account page.
2. Next to Account Information, click **Edit**.

Kauí opens the Update Account screen:

Update Account

Name	Frieda Lancaster
First name length <small>?</small>	6
Email	frieda.lancaster@email.com
Locale	English United States (en_US) ▾
Address line 1	123 Madison Terrace
Address line 2	Apt 1-B
Zip code	37040-3555
Company	Big Results, LLC
City	Clarkesville
State	Tennessee ▾
Country	United States ▾
Phone	555-321-7654
Notes	VIP

SAVE

3. Make changes to the fields. For field descriptions, see [Account Field Descriptions](#).
4. Click the **Save** button.

Add Additional Contact Emails

If a customer wants to receive email at more than one email address (which is the one defined in the **Email** field for the account), you can add more email addresses.

1. Open the account on the Account page.
2. In the Personal Information section, click the gray down arrow (▼) to expand the section.

Personal Information

Show/Hide Content ▾

Name	Grayson Busch
Address1	101 Starburst Way
Address2	
City	Atlanta
State	GA
Country	US
Postal Code	30301
Phone	
Company	Grayson Realty LLC
Primary email	grayson@email.com
Contact emails	+

3. Click the plus sign (+) next to **Contact emails**.

Kauai opens the Add New Email screen:

Add New Email

Email

SAVE

4. Type in a single email address.
5. Select the **Save** button. Kauai returns to the Account page.
6. To see the email address you added, expand the Personal Information section:

Personal Information

Show/Hide Content ▾

Name	Grayson Busch
Address1	101 Starburst Way
Address2	
City	Atlanta
State	GA
Country	US
Postal Code	30301
Phone	
Company	Grayson Realty LLC
Primary email	grayson@email.com
Contact emails	Pierre@mail.com ✘ mary@mail.com ✘ +

7. To add another email address, repeat steps 2 - 5.

Delete Additional Contact Emails



Warning: Kaui does not ask you to confirm your deletion; use this feature with caution.

To remove additional contact emails:

1. Open the account on the Account page.
2. In the Personal Information section, click the gray down arrow (▼) to expand the section.
3. Next to the email you want to delete, click the red X (✘). Kaui immediately deletes the email address.

Close an Account

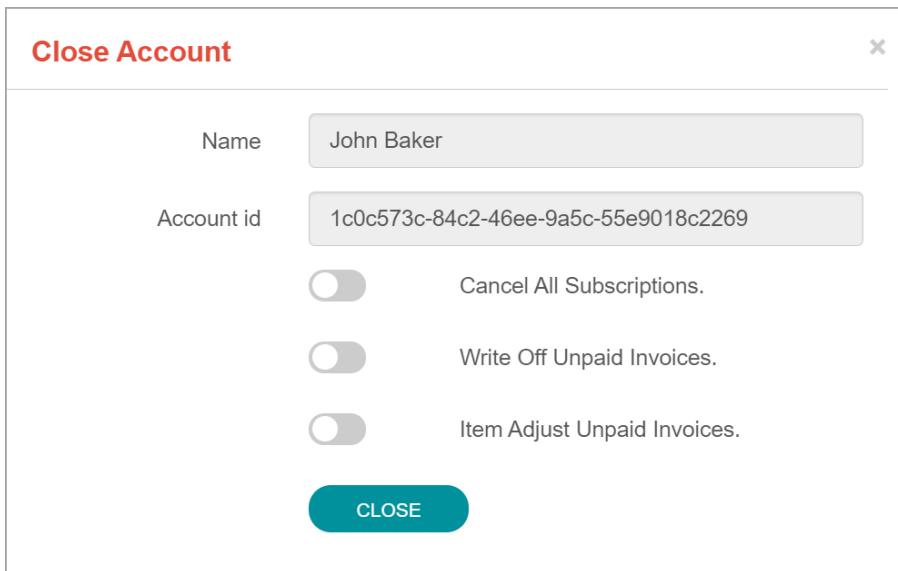
Use the steps in this section to indicate you will no longer be doing business with a customer. If the customer has unpaid invoices, using the steps below, you can choose to either write off or item-adjust them.



Note: Closing an account does not delete it. It only indicates the account is no longer a customer of yours. Once you close the account, its data becomes read-only, and you cannot make changes to it.

1. Open the account on the Account page.
2. Next to Account Information, click **Close**.

Kaui displays the Close Account pop-up:



3. Check the **Name** and **Account ID** fields to ensure you are closing the correct account.
4. Toggle any of the following options:
 - **Cancel All Subscriptions**—Stops any subscriptions that are current for this account.
 - **Write Off Unpaid Invoices**—Brings the balance for all unpaid invoices to zero. When you choose to write off the invoice, it is removed from Account Receivables.
 - **Item Adjust Unpaid Invoices**—Adds an invoice line item with a negative amount to bring each unpaid invoice's balance to zero.



Note: The last two options are mutually exclusive (i.e., you can only select one of them).

5. Click the **Close** button.

Kaui displays a message that lets you know the account was closed. In addition, the **Account** sub-menu displays "Closed":



Link to Parent Account

When you link an account to a *parent* account, the account becomes a *child* account. Defining a parent-child association between accounts lets you define which entity is responsible for paying the invoice. For more information on this feature, see the [Hierarchical Accounts Tutorial](#).

1. As a preparation step, open the parent account and copy the account ID in the Account Information section.
2. Open the account that will become the child account.
3. In the Account Information section of the child account, click the plus sign icon (+) next to the **Parent** field:

Account Information [Edit](#)

ID	6d468048-a1dc-45ea-87b5-72cf9ec14771
External Key	6d468048-a1dc-45ea-87b5-72cf9ec14771
Currency	USD
Timezone	Etc/UTC
Locale	en_US
Notes	VIP
Parent	+

Kaui opens a pop-up:

Link To Parent

Parent account id	<input type="text"/>
<input type="checkbox"/> Is payment delegated to parent?	
SAVE	

4. Click in the **Parent account id** field and paste in the account ID that you copied in step 1.
5. To set the parent as responsible for all payments associated with this account, check the **Is payment delegated to a parent?** box. If you do not check this box, the child account is responsible for its own payments.
6. Click the **Save** button. Kaui displays the parent account ID as a link in the Account Information section.

The screenshot shows the 'Account Information' page with the following details:

ID	6d468048-a1dc-45ea-87b5-72cf9ec14771
External Key	6d468048-a1dc-45ea-87b5-72cf9ec14771
Currency	USD
Timezone	Etc/UTC
Locale	en_US
Notes	VIP
Parent	cb736a4f-9b56-4074-ae07-1d37b37cb69f

You can open the parent account by clicking the account ID link.

Add Credit to an Account

Issuing a credit in Kaui creates a credit memo. For accounting purposes, the memo is saved with the customer account's invoices.

1. On the Account page, click **Add Credit** at the top of the Billing Info section.

The screenshot shows the 'Billing Info' page with the following sections:

- Billing Info** header
- PAY ALL INVOICES**, **ADD CREDIT**, and **CREATE CHARGE** buttons (the **ADD CREDIT** button is highlighted with a red arrow)
- Account balance**: \$10
- Account credit**: \$0
- Overdue status**: Good
- Bill cycle day**: N/A
- Next Invoice Date**: N/A
- Trigger invoice generation** button
- Dry-run
-

Kaui opens the **Add New Credit** screen:

The screenshot shows a modal window titled "Add New Credit". It contains four input fields: "Amount" (an input field), "Currency" (a dropdown menu set to "USD"), "Reason" (a dropdown menu set to "100 - Courtesy"), and "Comment" (a large text area). At the bottom is a blue "SAVE" button.

2. Fill in the fields:

- **Amount**—The amount of the credit.
- **Currency**—The currency defaults from the customer account and should not need to be changed.
- **Reason**—The reason is automatically selected based on [Kauui configuration settings](#). However, you can make a different selection.
- **Comment**—The text you enter here displays on the [Timeline](#) page after saving the credit. Adding comments is optional.

3. Click the **Save** button. To view the credit, select **Invoices** on the sub-menu.

On the Account page (in the Billing Info section), Kauui adjusts the account balance and account credit accordingly.

Create a Charge on an Account

Creating a charge in Kauui creates a new invoice. To create a charge:

1. On the Account page, click **Create Charge** at the top of the Billing Info section.

Billing Info

PAY ALL INVOICES **ADD CREDIT** **CREATE CHARGE** ↗

Account balance	\$0
Account credit	\$0
Overdue status	Good
Bill cycle day	N/A
Next Invoice Date	N/A

Trigger invoice generation Dry-run

Kaui opens the **Add New Charge** screen:

Add New Charge

Auto-commit?

Amount

Currency

Description

Comment

SAVE

2. To set the invoice as a draft instead of immediately committing it, uncheck the **Auto-commit** box.
3. Fill in the fields:
 - **Amount**—The amount of the charge.
 - **Currency**—The currency defaults from the customer account and should not need to be changed.
 - **Description** and **Comment**—What you type here displays on the customer’s invoice. Both fields are optional.
4. Click **Save** and Kaui generates an invoice.
5. If you unchecked the **Auto-commit** box and have changed your mind, you can click the text **Commit** at the top of the page.

If you do not commit the invoice, it will stay in Draft mode. You can commit it by opening it from the Invoices page and clicking **Commit**.

On the Account page (in the Billing Info section), Kaui adjusts the account balance to reflect the amount of the charge.

Payment Methods

A customer account can have several payment methods to allow for making payments in different ways, such as credit cards, debit cards, PayPal, and so forth. The payment method includes the details needed for Kill Bill to process a payment against an invoice.

Saving this information in Kaui makes it easier to accept payments from the customer because the customer or service staff don't need to repeatedly provide their payment method details.

In production systems, payment method information is typically added via gateway-specific data flows. However, developers can use the Payment Method section for testing purposes.



Note: Although you can't edit a payment method, you can delete it.



Warning! For PCI compliance, *do not* enter any genuine payment information in these fields.

About Payment Plugin Names

Each payment method is associated with a payment plugin, a type of software that performs the backend processing for that specific payment method. The **Plugin name** field specifies the name of this payment plugin. (*Example: killbill-stripe*).

The plugin name is typically mentioned in the plugin's [readme](#) file. For example, in the [Stripe plugin readme file](#), the plugin name is specified in the command line.

View Payment Method Details

To view a payment method after it's created:

1. Open the account on the Account page.
2. In the **Payment Methods** area, click the gray down arrow (▼) next to the payment method.

Kaui expands the details for the payment method:

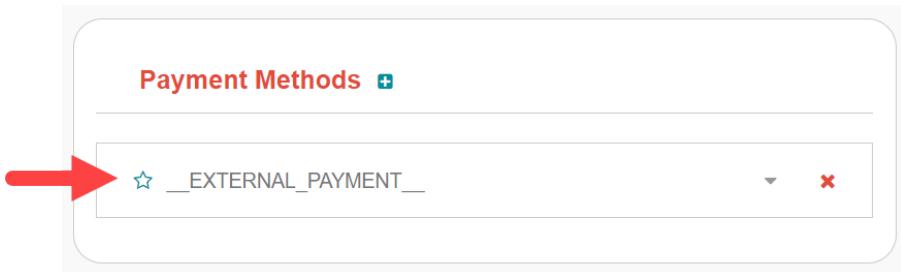
The screenshot shows a modal window titled "Payment Methods" with a red plus sign icon. Inside, a section for "EXTERNAL_PAYMENT" is expanded, showing three buttons: "AUTHORIZE", "PURCHASE", and "CREDIT". Below these buttons, the "Name:" field contains the value "EXTERNAL_PAYMENT_" and the "ID:" field contains the value "0f700362-2669-4e33-98e3-5de85e840c04".

Set a Payment Method as the Default

Kill Bill uses the default payment method to automatically pay invoices (whether that invoice is generated by the system or manually by a user).

To set a payment method as the default:

1. Open the account on the Account page.
2. In the Payment Methods section, click the star icon () next to the relevant payment method:

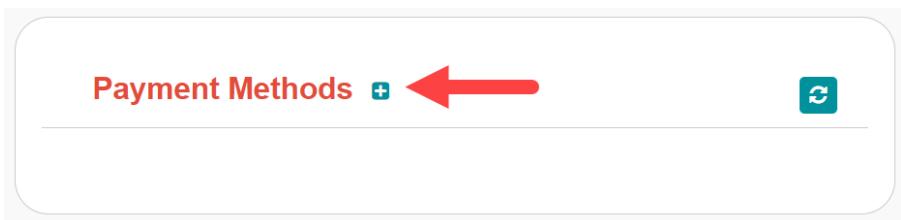


The filled star () indicates it's now the default payment method.

Add Payment Method

To add a payment method:

1. Open the account on the Account page.
2. Next to **Payment Methods**, click the plus sign:



Kaui displays the Add New Payment Method screen:

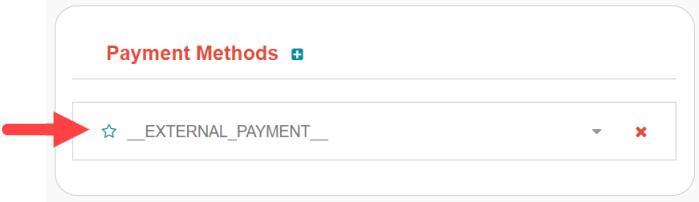
Add New Payment Method

External key					
Plugin name	__EXTERNAL_PAYMENT__				
Card type					
Card holder name					
Expiration month					
Expiration year					
Credit card number					
Address 1					
Address 2					
City					
ZIP code					
State					
Country					
<input type="button" value="+ add property"/> <table border="1"> <thead> <tr> <th>NAME</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>		NAME	VALUE		
NAME	VALUE				
<input type="checkbox"/> Default payment method?					
<input type="button" value="SAVE"/>					

3. Fill in the fields. For field descriptions, see [Payment Method Field Descriptions](#).
4. Click the **Save** button.

Payment Method Field Descriptions

Field	Description
External key	An optional alternate ID for the payment method. Once this is saved for the customer, you cannot change it.

Field	Description
Plugin name	<p>Type in the name of the plugin that is associated with this type of payment method.</p> <p>Each payment method is associated with a payment plugin that does the backend processing related to the payment method. The Plugin name field specifies the name of the payment plugin associated with the payment method (<i>Example: killbill-stripe</i>).</p> <p>The Plugin name is typically mentioned in the plugin's readme file. For example, in the Stripe plugin readme file, the plugin name is specified in the command line.</p>
Card type	The name of the credit or debit card.
Card holder name	The name that appears on the card.
Expiration month	The month and year the card expires. Enter month as <i>mm</i> and year as <i>yy</i> . (<i>Examples: 07</i> for the month of July and <i>23</i> for the year 2023.)
Expiration year	
Credit card number	The credit card number, typed without dashes.
Address 1, Address 2, City, ZIP code, State, Country	The billing address associated with this card.
Add property (Name/Value)	<p>Use the Name/Value fields to assign custom fields and values to the payment method.</p> <p>Note: Custom fields are an advanced feature. For more information, see Custom Fields.</p>
Default payment method?	<p>Check the box to set this payment method as the default. Kill Bill uses the default payment method to automatically pay invoices (whether the invoice is generated by the system or manually by a user).</p> <p>Note: If you forget to select this box, you can set the payment method as the default by clicking the star icon next to the payment method on the Account page:</p> 

Applying Transactions to a Payment Method

This section explains how to apply a transaction to a payment method. These transactions are directly applied on the payment instrument (as opposed to being applied to the unpaid invoice).

Use this functionality only for transactions *unrelated to invoices and/or payments*.

Example: After paying her final invoice, a customer cancels her subscription and demands a full refund because she is dissatisfied. In this case, you would process this transaction (the refund) against the payment method as explained in this section.

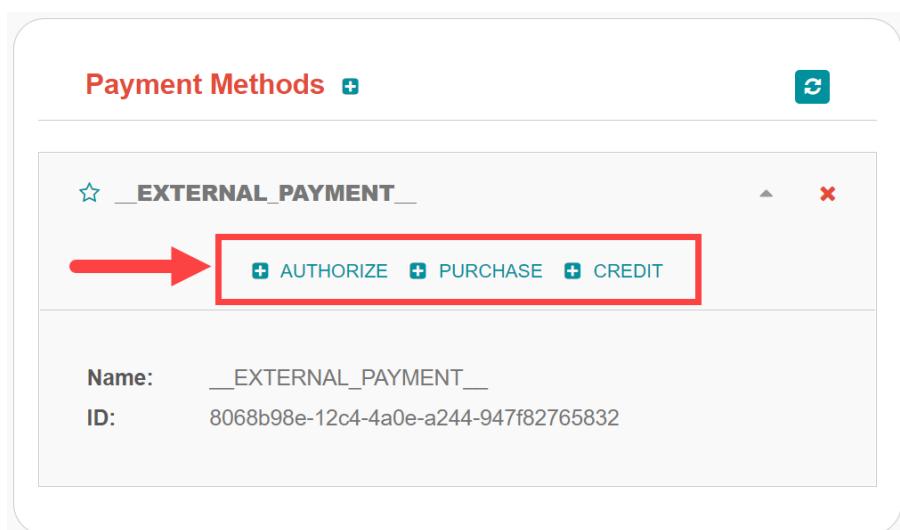
You can perform the following transactions from the Payment Methods section:

- Authorize
- Capture
- Credit (see note)
- Purchase (i.e., charge)
- Refund
- Void



Note: "Credit" here refers to depositing funds directly to the customer card and is unrelated to account credits.

1. Open the account on the Account page.
2. In the **Payment Methods** area, click the gray down arrow (▼) next to the payment method.
3. Select the type of transaction you want to perform:



Note: This area lists Authorize, Purchase, and Credit. For other transaction types, click any of these options. You will be able to change the transaction type on the next screen.

Kauai displays the Process Transaction screen:

Process Transaction

Transaction type	AUTHORIZE
Amount	
Currency	USD
Payment key	
Transaction key	
Reason	600 - Alt payment method
Comment	

CONTROL PLUGIN NAME

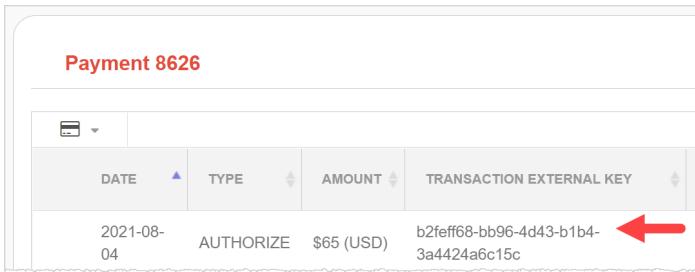
NAME **VALUE**

SAVE

4. Fill in the fields. For field descriptions, see [Process Transaction Field Descriptions](#).
5. Click the **Save** button. Kaui saves the transaction and displays it on the Payments page.

Process Transaction Field Descriptions

Field	Description
Transaction type	From the dropdown list, select the type of transaction you want to perform.
Amount	The amount of the transaction.
Currency	The currency to use for the transaction. This field defaults from the customer account.

Field	Description
Payment key	<p>The unique payment key (ID) to which you want to apply the transaction. This field is required for transaction types that are applied to a specific payment (Capture, Chargeback, Refund, Void).</p> <p>Note: You can copy the payment key for a specific transaction from the External Key column of the Payments page. Or you can copy it from the URL displayed on your browser's address line:</p> <p><i>Example:</i></p> <p>URL: https://demo.killbill.io/accounts/cb736a4f-9b56-4074-ae07-1d37b37cb69f/payments/0d1e11e5-2df6-4b6b-992f-e9ff2de38cef</p> <p>Payment key: 0d1e11e5-2df6-4b6b-992f-e9ff2de38cef</p>
Transaction key	Kill Bill automatically generates an external transaction key for Authorize, Purchase, and Credit transactions. To process a transaction that requires the transaction key, open the payment detail from the Payments screen and copy the key from the Transaction External Key column. 
Reason	The reason is automatically selected based on Kaui configuration settings . However, you can make a different selection.
Comment	The text you enter here displays on the Timeline page after the transaction is complete. Adding comments is optional.
Add control plugin	For information on control plugins, see Plugin Manager .
Add property (Name/Value)	Use this area to assign custom fields and values to the transaction. For information on custom fields, see Custom Fields .

Delete Payment Method



Warning: Kaui does not ask you to confirm your deletion; use this feature with caution.

To delete a payment method:

1. Open the account on the Account page.
2. In the **Payment Methods** area, click the red X () next to the payment method. Kaui

immediately removes the payment method.

Subscriptions

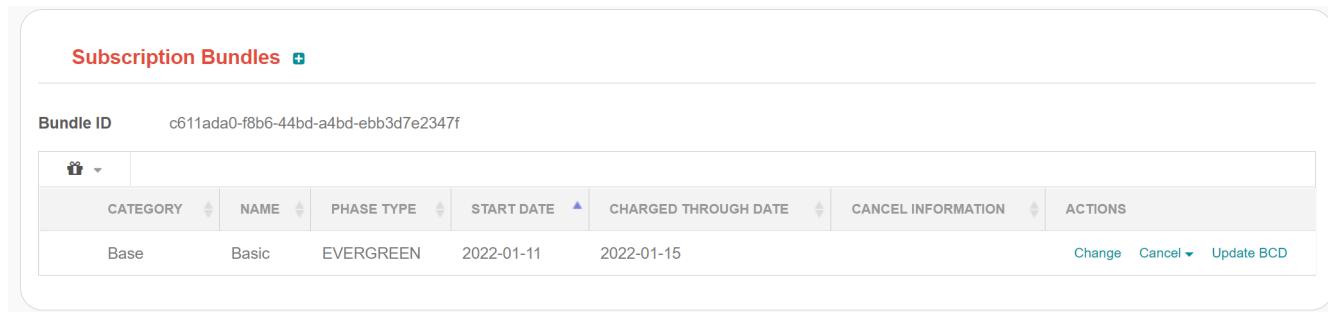
Overview

This section helps you get familiar with the Subscriptions area of Kill Bill.

For more information on subscriptions, see the [Subscription Guide](#).

Open Subscriptions Page

To view the subscriptions for an account, open the account and click **Subscriptions** on the sub-menu. This area of Kaui lists the subscriptions associated with an account.



The screenshot shows a table with one row of data. The columns are labeled: CATEGORY, NAME, PHASE TYPE, START DATE, CHARGED THROUGH DATE, CANCEL INFORMATION, and ACTIONS. The data in the table is:

CATEGORY	NAME	PHASE TYPE	START DATE	CHARGED THROUGH DATE	CANCEL INFORMATION	ACTIONS
Base	Basic	EVERGREEN	2022-01-11	2022-01-15		Change Cancel Update BCD

On the Subscriptions page, you can:

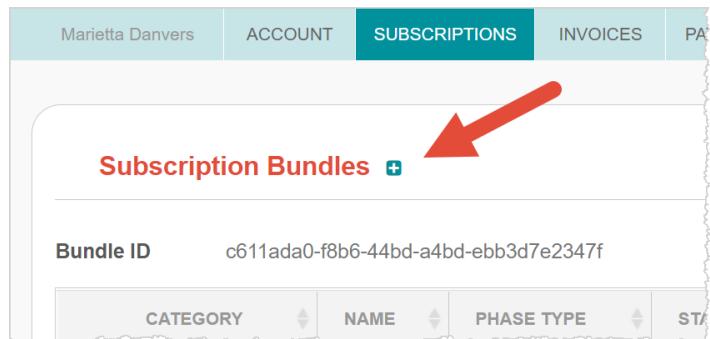
- [Add a subscription](#)
- [Add an add-on product to a subscription](#)
- [Pause and resume a subscription](#)
- [Change a subscription's plan and amount](#)
- [Cancel a subscription](#)
- [Update the billing cycle day \(BCD\) for the subscription](#)

Add a Subscription



Note: To create a subscription, you must have at least one product and one plan defined in the catalog.

1. On the Subscriptions page, click the plus sign to the right of **Subscription Bundles**:



Kaui displays the Add New Subscription screen:

Add New Subscription

Bundle Key	<input type="text"/>
Subscription Key	<input type="text"/>
Plan	<input type="button" value="Basic"/>
Price Override	<input type="text"/>
<input checked="" type="radio"/> Immediate Creation <input type="radio"/> Specify a date	
SAVE	

2. Fill in the fields. For field information, see [Add Subscription Field Descriptions](#).
3. Click the **Save** button.

Add Subscription Field Descriptions

Field	Description
Bundle Key	If you leave this field blank, Kill Bill generates a unique bundle key. If necessary, you can enter a different bundle key.
Subscription Key	If you leave this field blank, Kill Bill generates a unique subscription key. If necessary, you can enter a different subscription key.
Plan	Select the plan from the dropdown list. These options come from the plans defined in the catalog.
Price Override	If you need to override the price for the plan you've selected, enter an amount in this field.
Immediate Creation	Select this option to start the subscription immediately.
Specify a date	To define a specific date on which the subscription begins, select this option, and choose a date from the Date field that appears.

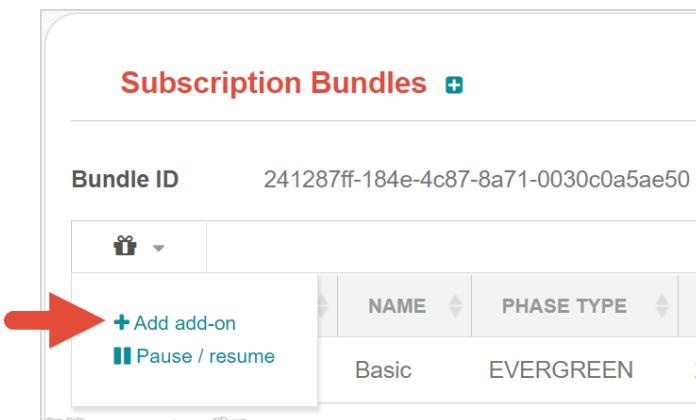
Add an Add-On Product to a Subscription

This section explains how to add an add-on product to a customer's subscription.



Note: To add an add-on to a subscription, the add-on must exist in the catalog *and* be available in the base plan.

1. Open the account and click **Subscriptions** on the sub-menu.
2. Hover over the gift icon and click **Add add-on**:



Kaui opens the Add New Add-On screen:

The screenshot shows the 'Add New Add-On' interface. It includes fields for 'Subscription Key' (with a placeholder '241287ff-184e-4c87-8a71-0030c0a5ae50'), 'Plan' (set to 'Auto-update-monthly'), and 'Price Override'. Below these are two radio buttons: 'Immediate Creation' (selected) and 'Specify a date'. At the bottom is a blue 'SAVE' button.

3. Fill in the fields. For field information, see [Add New Add-On Field Descriptions](#).

Add New Add-On Field Descriptions

Field	Description
Subscription Key	Note that this subscription key applies to the add-on, not the original subscription. If you leave this field blank, Kill Bill generates a unique subscription key. If necessary, you can enter a different subscription key.
Plan	Select the add-on to add to the subscription.
Price Override	If you need to override the price for the add-on you've selected, enter an amount in this field.

Field	Description
Immediate Creation	Select this option to start the subscription immediately.
Specify a date	To define a specific date on which the subscription begins, select this option, and choose a date from the Date field that appears.

Pause/Resume Subscriptions

Pausing and resuming happens at the subscription bundle level. In other words, pause/resume affects *all* subscriptions and add-ons in the customer's account.



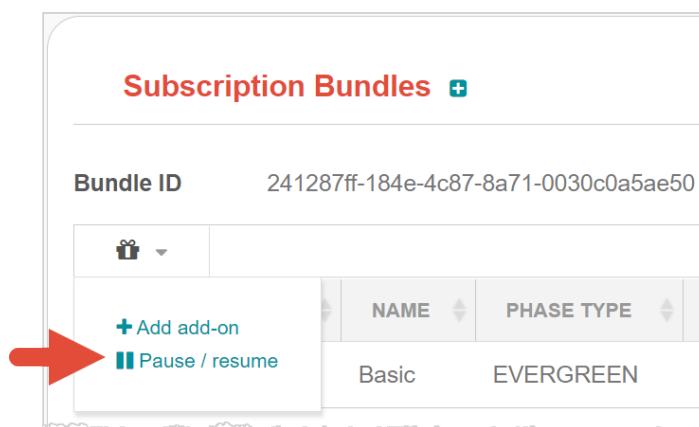
Note: While a customer's subscription bundle is paused, you cannot add any new subscriptions or add-ons to the account.

You can use the pause/resume feature to:

- Stop a subscription bundle indefinitely
- Reactivate a paused subscription bundle
- Set a specific time period during which the bundle is paused and then automatically resumed

To pause or resume a subscription bundle, perform the following steps:

1. Open the account and click **Subscriptions** on the sub-menu.
2. Hover over the gift icon and click **Pause / Resume**:



Kauai opens the Pause/Resume screen:

Pause / Resume

Pause date

Resume date

Comment

PAUSE / RESUME

3. Fill in the following fields:

- **Pause date**—The calendar date on which to temporarily stop the subscription bundle. To resume a paused subscription, leave this field blank.
- **Resume date**—The calendar date on which to remove the pause from the subscription(s). To set a pause to continue indefinitely, leave this field blank.
- **Comment**—The text you enter here displays on the [Timeline](#) page after saving the pause/resume. Adding comments is optional.

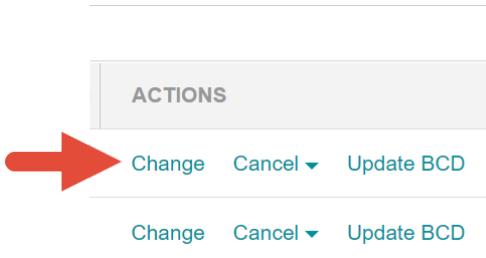
4. Click the **Pause / Resume** button. Kaui displays a success message at the top of the screen.

Change a Subscription

In Kaui, you can change a customer's subscription from one plan to another plan. You can also define a different price than what is set in the catalog and when the change takes effect.

To change an account's subscription:

1. Open the account and click **Subscriptions** on the sub-menu.
2. In the **Actions** column (far right), click **Change**.



Kaui opens the Change Subscription screen:

Change Subscription

New plan	Basic
Price Override	
<input checked="" type="radio"/> Default policy <input type="radio"/> Specify Policy <input type="radio"/> Specify a date	
SAVE	

3. In the **New plan** field, select a different plan.
4. If you need to override the price for the plan you've selected, enter the amount in the **Price Override** field.
5. To accept the system's default policy for changing subscriptions (**END_OF_TERM**), leave **Default policy** selected and click **Save**.

OR

You can select one of two other options: **Specify Policy** or **Specify a date**. This will override the policy defined in the catalog for the plan. For information on this topic, see "["Plan Change Timing"](#)" in the *Subscription Guide*.

- **Specify Policy:** You can select either **IMMEDIATE** or **END_OF_TERM**. For information on these two policies, see "["Subscription Alignment Rules"](#)" in the *Subscription Guide*.

Policy	<input type="radio"/> Default policy <input checked="" type="radio"/> Specify Policy <input type="radio"/> Specify a date
	IMMEDIATE END_OF_TERM
	SAVE

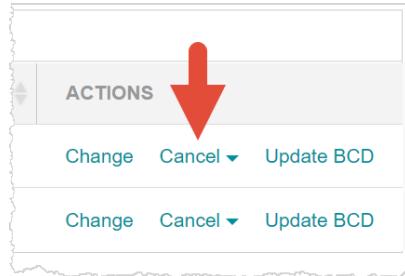
- **Specify a date:** Click on this and choose a date from the **Change Date** calendar that appears. Make sure to choose an effective date that is in the future.

Change Date	2022-01-11
SAVE	

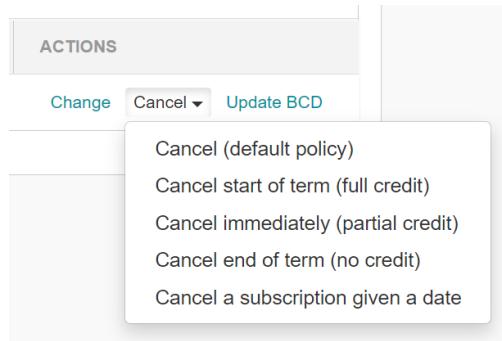
Cancel a Subscription

To cancel an account's subscription:

1. Open the account and click **Subscriptions** on the sub-menu.
2. In the **Actions** column (far right), click **Cancel**.



Kauai displays several options. The option you select defines how Kill Bill handles billing for the canceled subscription:



Cancellation Options

Option	Description
Cancel (default policy)	Uses the default policy specified for the plan in the catalog.
Cancel start of term (full credit)	Cancels the subscription immediately and refunds whatever amounts have been paid toward the subscription.
Cancel immediately (partial credit)	Cancels the subscription immediately and applies a partial credit to the account based on how much of the service has been consumed.
Cancel end of term (no credit)	Cancels the subscription at the end of the billing period with no refund to the customer. Note that after using this option to cancel, you can still reinstate the customer (i.e., reverse the cancellation).

Option	Description
Cancel a subscription given a date	<p>If you select this option, Kaui displays a pop-up from which to choose a date:</p> <p style="text-align: center;">image::CancelSubGivenDate.png[width=350,align="center"]</p> <p>Use requested date for billing: To set the entitlement date and billing date the same as the date you just selected, check this box.</p> <p>Otherwise, if you leave the checkbox empty, the entitlement date is the same as you just selected BUT the billing date defaults to <i>immediate</i>.</p>

Update the Billing Cycle Day

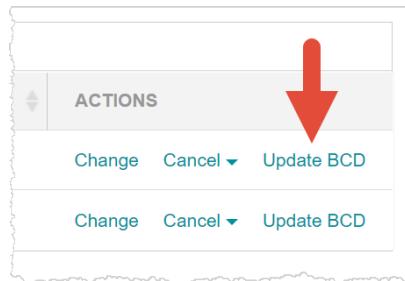
Follow the steps below to update the billing cycle day (BCD) defined for a subscription. These steps assume the subscription is billed on a monthly basis.

If you update the BCD with these steps, the new BCD overrides what is specified in the billing alignment rules in the catalog.



Note: These steps do not change the account billing cycle day specified in the "Billing Info" section on the Account page.

1. Open the account and click **Subscriptions** on the sub-menu.
2. In the **Actions** column (far right), click **Update BCD**.



Kaui opens the Update Subscription BCD screen:

Update Subscription BCD	
Bill Cycle Day	12
Effective Date	2022-01-12
SAVE	

3. In the **Billing Cycle Day** field, Kaui displays the currently defined BCD. Enter the number for the day of the month on which to bill.
4. For this change to be effective immediately, leave the **Effective Date** field at its current setting.

Otherwise, you can define a later date for this change to occur.



Note: If **Effective Date** is the same as today's date, you will not see this change take place immediately.

5. Click the **Save** button. On the Account page, the **Next Invoice Date** is adjusted to reflect the new BCD.

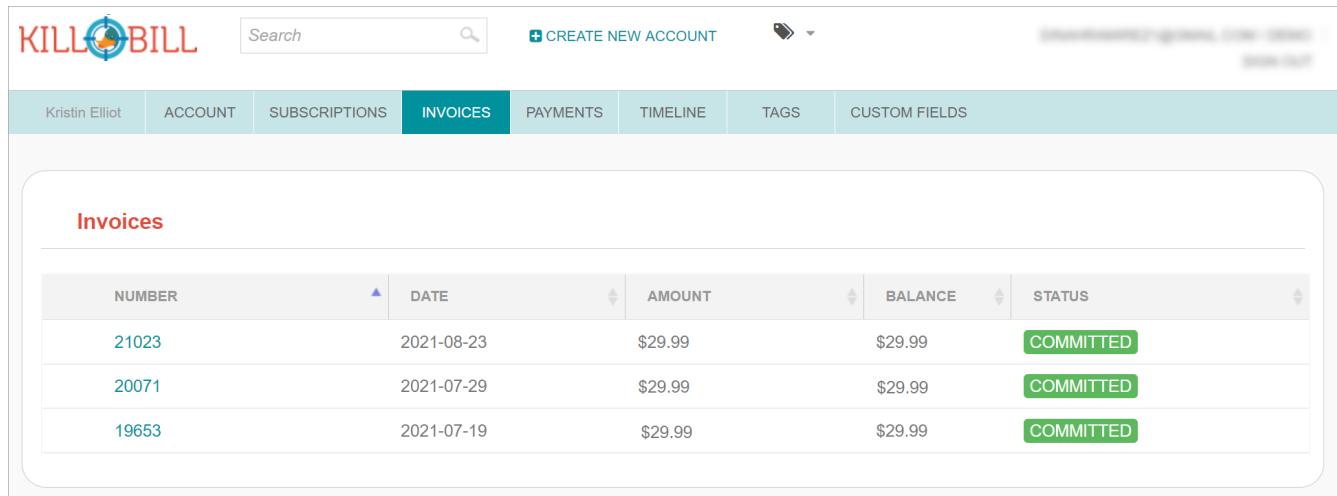
Invoices

This section helps you become familiar with the Invoices and Invoice Details pages.

For more information on invoices, see the "[Invoicing](#)" section of the *Subscription Guide*.

Invoices Page

The Invoices page lists the invoices for the currently selected account. To open the Invoices page, open the account and select **Invoices** on the sub-menu.



The screenshot shows the Kill Bill Invoices page. At the top, there is a navigation bar with the Kill Bill logo, a search bar, and a "CREATE NEW ACCOUNT" button. Below the navigation bar is a menu bar with links: Kristin Elliot, ACCOUNT, SUBSCRIPTIONS, INVOICES (which is highlighted in blue), PAYMENTS, TIMELINE, TAGS, and CUSTOM FIELDS. The main content area is titled "Invoices". It displays a table with three rows of invoice data:

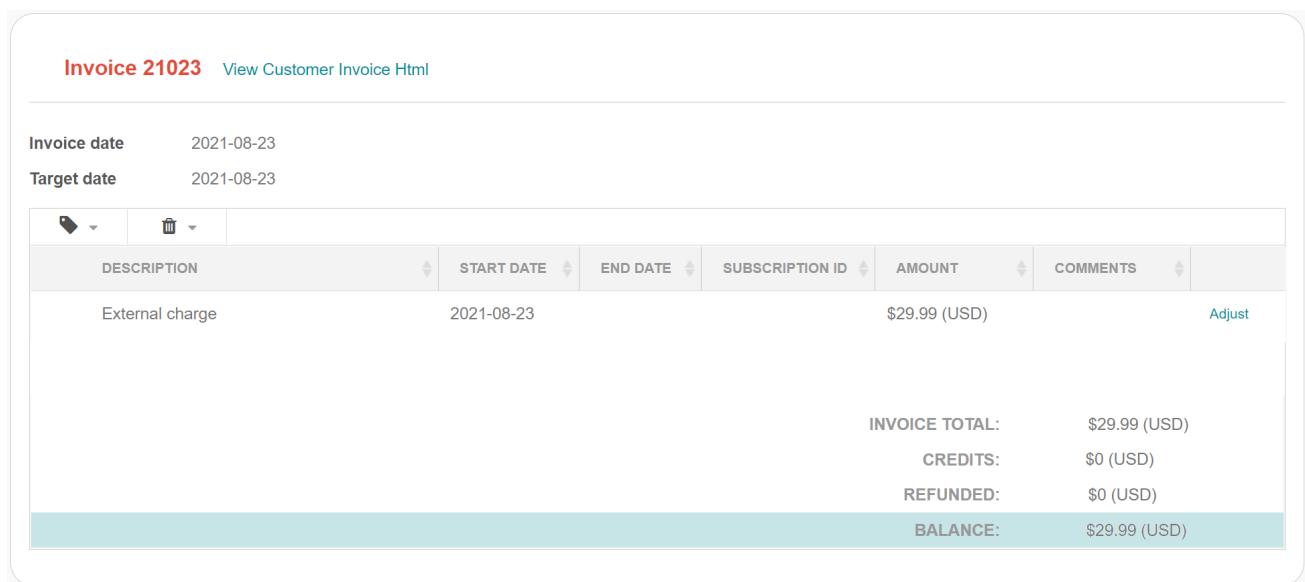
NUMBER	DATE	AMOUNT	BALANCE	STATUS
21023	2021-08-23	\$29.99	\$29.99	COMMITTED
20071	2021-07-29	\$29.99	\$29.99	COMMITTED
19653	2021-07-19	\$29.99	\$29.99	COMMITTED

Kill Bill generates invoices automatically based on the customer's subscriptions. However, you can manually create an invoice by [creating a charge](#) on the customer's account.

Click the invoice number to open the Invoice Details page.

Invoice Details Page

The Invoice Details page displays information about the invoice, such as the date it was generated, amount, and so forth.



The screenshot shows the Kill Bill Invoice Details page for invoice 21023. At the top, it displays the invoice number and a link to "View Customer Invoice Html". Below this, there are two sections: "Invoice date" (2021-08-23) and "Target date" (2021-08-23). The main content area contains a table with one row of data:

DESCRIPTION	START DATE	END DATE	SUBSCRIPTION ID	AMOUNT	COMMENTS
External charge	2021-08-23			\$29.99 (USD)	Adjust

At the bottom of the page, there is a summary table with the following data:

INVOICE TOTAL:	\$29.99 (USD)
CREDITS:	\$0 (USD)
REFUNDED:	\$0 (USD)
BALANCE:	\$29.99 (USD)

On the Invoice Details page, you can:

- Make a payment against an invoice
- Write off or void an invoice
- See the payment details (if the invoice was paid)



Note: You can perform two other invoice-related tasks on the Accounts page: [Generate a Dry-Run Invoice](#) and [Pay All Unpaid Invoices](#).

Open Invoice Details

To get to the Invoice Details page:

1. Open an account.
2. Click **Invoices** on the sub-menu.
3. Select an invoice number.



Note: To see any associated payment details, you may need to scroll down the page.

Make a Payment on an Invoice

To make a manual payment against an invoice:

1. [Open the Invoices Details page](#) for the invoice.

The screenshot shows the 'Invoice 21023' details. At the top, there's a link to 'View Customer Invoice Html'. Below that, the 'Invoice date' is listed as 2021-08-23 and the 'Target date' as 2021-08-23. A table lists a single item: 'External charge' with a start date of 2021-08-23 and an amount of \$29.99 (USD). There's an 'Adjust' button next to the amount. At the bottom, summary totals are shown: INVOICE TOTAL: \$29.99 (USD), CREDITS: \$0 (USD), REFUNDED: \$0 (USD), and BALANCE: \$29.99 (USD).

2. Hover over the credit card icon and select **Make Payment**.

The screenshot shows the 'Invoice 21023' detail page. At the top, there's a 'View Customer Invoice Html' link. Below that, the 'Invoice date' is listed as '2021-08-23'. Underneath it, the 'Target date' is also '2021-08-23'. A row of icons follows: a credit card icon, a banknote icon, a trash bin icon, and a plus sign icon. Below these icons is a button labeled '+ Make payment'. A large red arrow points to this button. To the right of the button is a 'START DATE' field containing '2021-08-23'. The rest of the page contains standard invoice details like 'Customer Name' and 'Address'.



Note: If the invoice has already been fully paid, the credit card icon doesn't show, and the payment details are displayed below the invoice.

- Kaui displays the Process Payment screen:

The screenshot shows the 'Process Payment' screen. It includes fields for 'External?' (checkbox), 'Amount' (29.99), 'Currency: USD', 'Payment Method' (dropdown with note 'Leave blank to use account's default'), 'Reason' (dropdown with value '600 - Alt payment method'), and 'Comment' (text area). A 'SAVE' button is at the bottom.

- Fill in the fields. For field descriptions, see [Process Payment Field Descriptions](#).
- Click **Save**. The invoice detail shows the balance due on the invoice. Below the invoice, Kaui displays the payment details, including the status of the payment.

Process Payment Field Descriptions

Field	Description
External?	Select this checkbox if the customer is making a payment outside of the Kill Bill system (such as with a check). Note that if this checkbox is selected, it overrides anything selected in the Payment Method field.
Amount	The amount defaults from the invoice balance. If the customer is making a partial payment, you can change this amount.

Field	Description
Payment Method	To use the account's default payment method, leave the field blank. Otherwise, select the payment method from the drop-down.
Reason	The reason is automatically selected based on Kaui configuration settings . However, you can make a different selection.
Comment	The text you enter here displays on the Timeline page after the payment is complete. Adding comments is optional.

Write Off or Void an Invoice

This section explains how to write off an invoice and void an invoice. "Write-off" and "void" have different meanings in Kill Bill:

- **Write off:** Brings the balance of an unpaid invoice to \$0. This method is typically used when closing an account with unpaid invoices (or when you are sure the invoice is uncollectible). When you write off an invoice, Kaui applies the **WRITTEN_OFF** tag to the invoice. For more information on system tags, see the "[Tags](#)" section in the *Subscription Guide*.
- **Void:** Changes the invoice's status to VOID, in which case it is ignored by the system. An invoice *cannot* be voided if:
 - It was partially or fully paid.
 - It contains positive credit items.
 - Any invoice item was internally adjusted by the system. (In this situation, you could refund the payment before voiding the invoice.)

Write Off an Invoice

To write off an invoice:

1. [Open the Invoices Details page](#) for the invoice.

Invoice 19608 [View Customer Invoice Html](#)

Invoice date	2021-07-18														
Target date	2021-07-18														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">DESCRIPTION</th> <th style="width: 10%;">START DATE</th> <th style="width: 10%;">END DATE</th> <th style="width: 10%;">SUBSCRIPTION ID</th> <th style="width: 10%;">AMOUNT</th> <th style="width: 10%;">COMMENTS</th> <th style="width: 10%;"> </th> </tr> </thead> <tbody> <tr> <td>Add-on service</td> <td>2021-07-18</td> <td></td> <td></td> <td>\$4.99 (USD)</td> <td></td> <td>Adjust</td> </tr> </tbody> </table>		DESCRIPTION	START DATE	END DATE	SUBSCRIPTION ID	AMOUNT	COMMENTS		Add-on service	2021-07-18			\$4.99 (USD)		Adjust
DESCRIPTION	START DATE	END DATE	SUBSCRIPTION ID	AMOUNT	COMMENTS										
Add-on service	2021-07-18			\$4.99 (USD)		Adjust									
INVOICE TOTAL: \$4.99 (USD) CREDITS: \$0 (USD) REFUNDED: \$0 (USD) BALANCE: \$4.99 (USD)															

2. Hover over the tag icon (). Kaui displays a drop-down:

Invoice 19608 View Customer Invoice Html

Invoice date 2021-07-18

Target date 2021-07-18

 ▾  ▾  ▾

Tag As:

WRITTEN_OFF

Comment

UPDATE

3. Select the **WRITTEN_OFF** checkbox and (optionally) type text in the **Comment** field.
 4. Click the **Update** button.

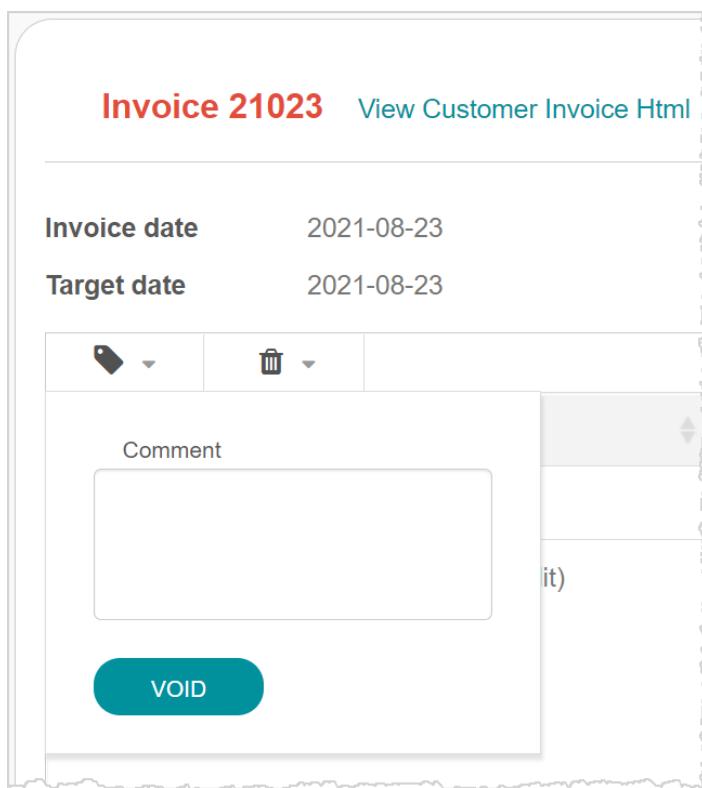
If the write-off is successful, Kauí displays "This invoice has been written off" at the top of the Invoice Detail.

Void an Invoice

To void an invoice:

1. Open the Invoices Details page for the invoice.

2. Hover over the trashcan icon (). Kauai displays a drop-down:



3. If desired, type text in the **Comment** field.

4. Click the **Void** button.

If the void is successful, Kauai displays "This invoice has been voided" at the top of the Invoice Detail.

Pay All Unpaid Invoices

You can pay all unpaid invoices if a customer account has at least one outstanding invoice. Before you begin, make sure the customer has a valid payment method (see Note).



Note: If the invoices have gone unpaid because of issues with the customer's payment method (for example, an expired credit card), make sure you [delete the old payment method](#) and [add a new one](#).

To pay all invoices:

1. Open the account on the Account page.
2. In the **Billing Info** section, click **Pay all invoices**.

Billing Info

PAY ALL INVOICES **ADD CREDIT** **CREATE CHARGE**

Account balance	\$17
Account credit	\$0
Overdue status	ReallyBad
Bill cycle day	29 (user timezone)
Next Invoice Date	2022-02-28

Trigger invoice generation Dry-run

If the payments are completed, Kaui displays a success message at the top of the screen. To see the payment details, click **Payments** on the sub-menu.

Generate a Dry-Run Invoice

A dry-run invoice lets you see how a customer's invoice will look without actually committing it. This feature creates a draft invoice as if it's being generated on the customer's bill cycle day. It's a helpful feature for testing. (You cannot generate a dry-run invoice for an invoice generated from a charge.)

After you generate the invoice, which is in **DRAFT** mode, you have the choice to commit it. If you do not commit the **DRAFT** invoice, it remains in the system as a draft.

In order to generate a dry-run invoice, the customer account must be associated with a subscription that has a billing date in the future.

1. Open the account on the Account page.
2. In the **Billing Info** section, make sure the **Dry-run** checkbox is selected.

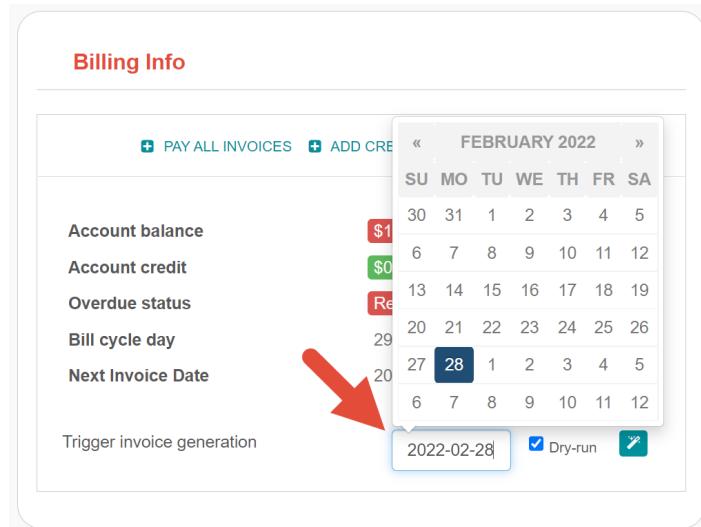
Billing Info

PAY ALL INVOICES **ADD CREDIT** **CREATE CHARGE**

Account balance	\$17
Account credit	\$0
Overdue status	ReallyBad
Bill cycle day	29 (user timezone)
Next Invoice Date	2022-02-28

Trigger invoice generation Dry-run

3. In the field next to **Dry-run**, enter the date that matches the invoice's upcoming invoice date.



4. Click the magic wand button:



Kauai generates and displays the draft invoice. A message at the top indicates it is a draft invoice.



Note: To change the invoice from DRAFT to COMMITTED, click "trigger an invoice run" in the message at the top of the invoice.

Payments

This section helps you become familiar with the Payments and Payment Details pages.

For more information on payments, see:

- "Payment" section of the *Subscription Guide*
- *Payment Guide*

Payments Page

The Payments page lists any payments applied to invoices for the customer account. This page also lists information about scheduled payment retries for failed payments.

To open the Payments page, open the account and select **Payments** on the sub-menu.



Note: If a customer account has a default payment method, Kaui automatically makes a payment when an invoice is generated in the system. See [About Automatic Invoice Payments](#) for more information.

The screenshot shows the Kill Bill interface with the 'Payments' tab selected. The page displays a table of payment records with columns for Number, Date, Auth Amount, Capture Amount, Refund Amount, Last Transaction Status, and External Key. The data is as follows:

NUMBER	DATE	AUTH AMOUNT	CAPTURE AMOUNT	REFUND AMOUNT	LAST TRANSACTION STATUS	EXTERNAL KEY
10237	2021-11-15	\$7	\$7	\$0	SUCCESS	771367a9-a83c-4d50-859b-fc2f2d4c3043
9801	2021-10-19	\$3.49	\$3.49	\$0	SUCCESS	5bbfa22a-6b25-4aa7-8e4d-e29eac884c33
9800	2021-10-19	\$4.99	\$4.99	\$0	SUCCESS	0ca170cb-0334-4b26-8b25-cab88556f4a8
9782	2021-10-18	\$25	\$25	\$0	SUCCESS	9d5fb49c-42a5-48e8-a17a-57129e029081

About Automatic Invoice Payments

Kill Bill automatically generates a payment for an invoice if an account:

- Has an outstanding, unpaid invoice AND
- Has a default and valid payment method

Kill Bill *does not* automatically generate an invoice payment if:

- No default payment method exists for the account
- The default payment method is invalid (e.g., expired credit card)
- The **AUTO_PAY_OFF** or **MANUAL_PAY** system tags are defined for the account



Note: For invoices that Kill Bill does not automatically pay, you can use the "Pay all Invoices" feature. For more information, see [Pay All Unpaid Invoices](#).

Payment Details Page

The Payment Details page displays information about a specific payment, such as the date it was generated, amount, and so forth. Below the payment information is information about the payment method used.

Payment 8960

Invoice ID [a1e0c754-c8cf-4418-b01f-259ea5f3feaf](#)
External key 4a3f80aa-5ca1-4abe-a698-61edcd0b6a26

DATE	TYPE	AMOUNT	TRANSACTION EXTERNAL KEY	FIRST ID	SECOND ID	GATEWAY CODE	GATEWAY MESSAGE	STATUS
2021-08-26	PURCHASE	\$4.99 (USD)	6e6dae1e-0979-4092-848c-8df791158401					SUCCESS

Payment Method Details

Name:	killbill-stripe
ID:	11b455b2-e848-4cf5-b239-223babd882b4
card_brand	Visa
card_country	US
card_exp_month	10
card_exp_year	2022
card_fingerprint	U6o8Z4JtemC3AYFe
card_funding	credit
card_last4	4242

On the Payment Details page, you can: [refund a payment](#) or [perform a chargeback](#).

Open Payment Details

To get to the Payment Details page:

1. Open an account.
2. Click **Payments** on the sub-menu.
3. Select a payment number.



Note: To see the associated payment method information, you may need to scroll down the page.

Refund a Payment

When you refund a payment from the Payment Details page, it brings the invoice amount to zero (i.e., the invoice will have no balance). You can also perform a partial refund in which the partial refund amount is added as an invoice line item.

The refund is applied to the same payment method used in the original payment.



Note: You can also perform a refund directly on the payment method that was originally used. For more information, see [Applying Transactions to a Payment Method](#).

To refund a payment:

1. Open the Payment Detail page for the payment.

DATE	TYPE	AMOUNT	TRANSACTION EXTERNAL KEY	FIRST ID	SECOND ID	GATEWAY CODE	GATEWAY MESSAGE	STATUS
2021-10-15	PURCHASE	\$10 (USD)	69166faa-6b0f-4a55-bb45-ae44c65e2f83	ch_3JksNRlSp8QfnMk2i9WO4LB				SUCCESS kbPaymentMethodId=11b454cf5-b239-223babd882b4} last_charge_object: charge last_charge_outcome: {networkStatus=approved_b}

2. Hover over the credit card icon and select Refund.

Payment 9734

Invoice ID: 36b604ed-2694-4c7d-a159-42d1cbc031b8
External key: 83a3dc47-4958-433f-bd4e-153fce09b4a4

Refund
 Chargeback

TYPE	AMOUNT	TRANSACTION EXTERNAL KEY

Kaui opens the Process Refund screen.

Process Refund

No Invoice Adjustment
 Invoice Item Adjustment

Amount: 10.0
 Currency: USD

Reason: 500 - Courtesy

Comment:

SAVE

3. Fill in the fields. For field descriptions, see [Process Refund Field Descriptions](#).
4. Click the **Save** button. Kaui saves the refund and displays it as a separate row on the Payments Details page:

Payment 9734

Invoice ID		c9369e16-67d9-4aaa-91d4-8a683c778216						
External key		9d5fb49c-42a5-48e8-a17a-57129e029081						
DATE	TYPE	AMOUNT	TRANSACTION EXTERNAL KEY	FIRST ID	SECOND ID	GATEWAY CODE	GATEWAY MESSAGE	STATUS
2021-10-18	PURCHASE	\$25 (USD)	cdf3d494-1c0e-424c-b60f-77276dd6dd03					SUCCESS
2022-01-05	REFUND	\$25 (USD)	34bb7f7a-33f8-4cec-8b88-a4d83290890c					SUCCESS

Process Refund Field Descriptions

Field	Description
No Invoice Adjustment	If you are refunding the entire balance of the invoice, select No Invoice Adjustment . However, if you are providing a partial refund, select Invoice Item Adjustment .
Invoice Item Adjustment	
Amount	The amount of the refund. Kaui automatically fills this in based on the invoice balance.
Reason	The refund reason is automatically selected based on Kaui configuration settings . However, you can make a different selection.
Comment	The text you enter here displays on the Timeline page after the payment is complete. Adding comments is optional.

Perform a Chargeback

If your business receives a chargeback notice for a payment, you can record that chargeback in Kill Bill.

1. Open the Payment Detail page for the payment.

Payment 9782

Invoice ID: c9369e16-67d9-4aaa-91d4-8a683c778216
External key: 9d5fb49c-42a5-48e8-a17a-57129e029081

DATE	▲ TYPE	AMOUNT	TRANSACTION EXTERNAL KEY	FIRST ID	SECOND ID	GATEWAY CODE	GATEWAY MESSAGE	STATUS
2021-10-18	PURCHASE	\$25 (USD)	cdf3d494-1c0e-424c-b60f-77276dd6dd03				SUCCESS	

2. Hover over the credit card icon and select Chargeback.

Payment 9782

Invoice ID: c9369e16-67d9-4aaa-91d4-8a683c778216
External key: 9d5fb49c-42a5-48e8-a17a-57129e029081

18 PURCHASE \$25 (USD) cdf3d49-77276dc

Kaui opens the Process Chargeback screen with the **Amount** and **Reason** fields already filled in.

Process Chargeback

Amount: 25.0
Currency: USD

Reason: 400 - Canceled Recurring Transaction

Cancel account subscriptions?

Comment:

SAVE

3. If necessary, select a different **Reason**. (The chargeback reason is automatically selected based on [Kaui configuration settings](#). However, you can make a different selection.)

- If the subscription associated with the payment needs to be canceled, check the **Cancel account subscriptions** box.
- Fill in the **Comment** field (optional). The text you enter here displays on the [Timeline](#) page.
- Click the **Save** button. Kaui saves the chargeback and displays it as a separate row on the Payments Details page:

Payment 9782

DATE		TYPE	AMOUNT	TRANSACTION EXTERNAL KEY	FIRST ID	SECOND ID	GATEWAY CODE	GATEWAY MESSAGE	STATUS
2021-10-18		PURCHASE	\$25 (USD)	cdf3d494-1c0e-424c-b60f-77276dd6dd03					SUCCESS
2022-01-05		CHARGEBACK	\$25 (USD)	98f726ba-29a3-4669-b02f-649cf7e0542d					SUCCESS

Timeline

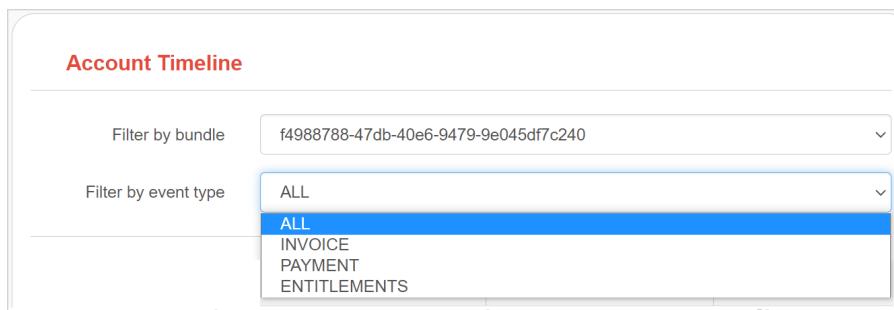
The Timeline displays a chronological list of events (that is, an audit log) that occurred for a specific customer account. You cannot make changes to the timeline.

To see the Timeline, open an account and click **Timeline** on the sub-menu:

Account Timeline				
Filter by bundle				
Filter by event type				
EFFECTIVE DATE	BUNDLE	EVENT TYPE	DETAILS	REASON CODE / COMMENTS
2021-05-29		PURCHASE	Amount: \$10 (USD) SUCCESS Payment # 7632 Invoice # 16407	INSERT by [REDACTED] @gmail.com: 699 - OTHER UPDATE by [REDACTED] @gmail.com: 699 - OTHER
2021-05-29	4dbb63f7-...-e31396c8c0e1	PURCHASE	Amount: \$29.99 (USD) SUCCESS Payment # 7633 Invoice # 17586	INSERT by [REDACTED] @gmail.com: 600 - Alt payment method UPDATE by [REDACTED] @gmail.com: 600 - Alt payment method

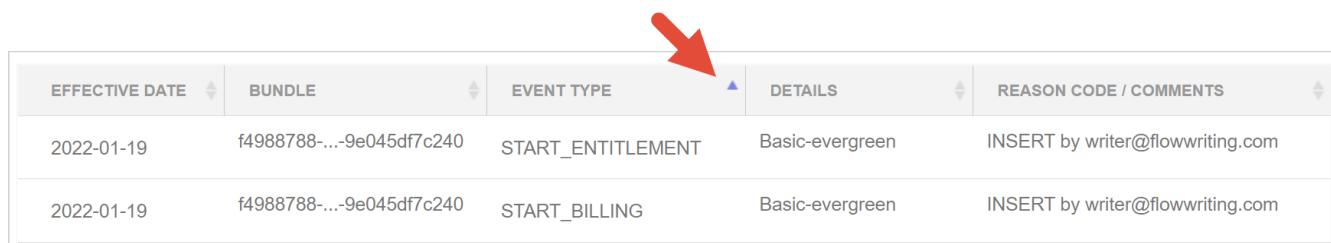
On the Timeline page, you can:

- **Filter events:** Make selections in the **Filter by event type** or **Filter by bundle** fields to display only specific events (e.g., **PURCHASE**, **INVOICE**) and/or by a specific subscription bundle.



The screenshot shows the 'Account Timeline' page with two filter dropdowns. The 'Filter by bundle' dropdown contains the value 'f4988788-47db-40e6-9479-9e045df7c240'. The 'Filter by event type' dropdown is open, showing a list of options: ALL (which is selected and highlighted in blue), INVOICE, PAYMENT, and ENTITLEMENTS.

- **Sort rows:** Click the up/down arrows to the right of the column header to sort by the contents of that column. The blue arrow indicates which column's contents are currently sorted.



The screenshot shows the 'Account Timeline' page with the 'Event Type' column header sorted in ascending order, indicated by a blue up arrow. The table data is as follows:

EFFECTIVE DATE	BUNDLE	EVENT TYPE	DETAILS	REASON CODE / COMMENTS
2022-01-19	f4988788-...-9e045df7c240	START_ENTITLEMENT	Basic-evergreen	INSERT by writer@flowwriting.com
2022-01-19	f4988788-...-9e045df7c240	START_BILLING	Basic-evergreen	INSERT by writer@flowwriting.com

- **Open linked documents:** Click the document link in the **Details** column.

EFFECTIVE DATE	BUNDLE	EVENT TYPE	DETAILS	REASON CODE / COMMENTS
2022-01-19	f4988788-...-9e045df7c240	INVOICE	Amount: \$11.99 (USD) Balance: \$11.99 (USD) Invoice # 27291	INSERT by SubscriptionBaseTransition
2022-01-19	f4988788-...-9e045df7c240	START_ENTITLEMENT	Basic-evergreen	INSERT

Invoice 27291 [View Customer Invoice Html](#)

Invoice date 2022-01-19
 Target date 2022-01-19

DESCRIPTION	START DATE	END DATE	SUB
Basic	2022-01-19	2022-02-19	0e2

Tenants

Overview

For each Kill Bill deployment, you can run multiple tenants. A few examples of running different tenants for your organization include:

- Software development environments (coding, testing, production, etc.)
- Product lines (brick-and-mortar, online ecommerce, etc.)
- Regions (north, southeast, central, etc.)



Important: If you have already created tenants using the API, you must also add them in Kaui in order for Kaui to recognize them.

Additional Tenant Resources

- [Tenant API](#)
- [Multi-Tenancy and Authorization](#)
- [Per Tenant Properties](#)

Create a Tenant

To create *additional* tenants, follow the steps below.

1. At the top of the screen, click the gears icon () and select **Tenants**.

The screenshot shows the Kill Bill dashboard. At the top right, there is a navigation bar with icons for user management, account creation, and sign out. Below the navigation bar, a red arrow points to the gear icon, which is part of a dropdown menu labeled "USERS" and "TENANTS".

Kaui displays a list of tenants on the Tenants screen:

The screenshot shows the "Kaui Tenants" list screen. The table has columns for NAME, TENANT ID, and API KEY. The data is as follows:

NAME	TENANT ID	API KEY
bob	74e03d65-f942-4650-9eba-3038e1440c0a	bob
t1	c39577f0-a73d-438c-bebd-657db67a2b6a	t1
t2	2e6ff236-cb56-41e6-ad43-2dc43ceb99af	t2

2. Click the plus sign () next to **Kaui Tenants**.

Kaui displays the Add New Tenant screen:

Add New Tenant

Name	t_demo
API Key	t_demo
API Secret	*****

SAVE

- Enter the tenant **Name**, **API Key**, and **API Secret**.



Note: The API key and API secret pair are used in all HTTP requests to ensure that the user issuing the request has the correct permissions to access the tenant.

- Click the **Save** button.

Kaui displays the Tenant Configuration page with the new tenant name in the upper right corner:

The screenshot shows the Kaui Tenant Configuration interface. At the top, there's a navigation bar with the KILL BILL logo, a search bar, and links for 'CREATE NEW ACCOUNT', 'Tags', 'Config', and 'admin / t_demo SIGN OUT'. A red arrow points to the 'admin / t_demo' link. Below the navigation, a success message 'Tenant was successfully configured' is displayed. The main content area is divided into sections: 'Tenant Details' (listing Name: t_demo, Tenant ID: 2a381717-704d-48bf-ae7d-32a1fc58b823, API Key: t_demo), 'Allowed Users' (listing admin), and tabs for Catalog Show, Overdue Show, Invoice Template, Invoice Translation, Catalog Translation, and Plugin Config. At the bottom, there's a link for Existing Plans and an 'Enable XML View' option.

Tenant Configuration Page

This section explains the main areas of the Tenant Configuration page.

The screenshot shows the Kill Bill Tenant Configuration page. At the top, there is a navigation bar with the Kill Bill logo, a search bar, and account creation links. On the right, it shows the current user (admin/t_demo) and sign-out options. The main content area is divided into several sections:

- Tenant Details** (Section 1): Displays basic tenant information: Name: t_demo, Tenant ID: 2a381717-704d-48bf-ae7d-32a1fc58b823, and API Key: t_demo.
- Useful Links** (Section 2): A list of useful links including Parked accounts, AUTO_INVOICING_OFF accounts, AUTO_PAY_OFF accounts, PENDING payments, UNKNOWN and PLUGIN_FAILURE payments, and Queues.
- Allowed Users** (Section 3): A table showing allowed users. It has columns for NAME and DESCRIPTION. One row is shown: admin.
- Tabs at the bottom** (Section 4): Catalog Show, Overdue Show, Invoice Template, Invoice Translation, Catalog Translation, and Plugin Config. The Catalog Show tab is currently selected.

1 Tenant Details

This read-only area displays basic information about the tenant.

2 Useful Links

Click on a link to go to the associated list.

3 Allowed Users

This section displays the users who have permission to log on to this tenant. You can click on the user name to view that user's details or click on the plus sign (+) to add a new user for the current tenant.

By default, the admin user has access to the tenant.

To add a user from this screen, see [Add an Allowed User to the Tenant](#). For more information, see the [Users, Roles, and Permissions](#) chapter.

4 Tenant Configuration Tabs

The tabs at the bottom of the Tenant Configuration page allow you upload various files that are specific to the current tenant:

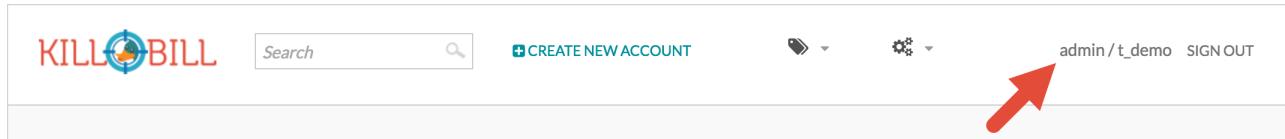
- [Catalog Show](#)—Create and manage catalog XML files.
- [Overdue Show](#)—Create and manage the XML configuration file that helps to control Kill Bill's overdue (dunning) functionality.
- [Invoice Template](#)—Upload invoice template files.
- [Invoice Translation](#)—Upload translated invoice files.
- [Catalog Translation](#)—Upload translated catalog strings files.

- **Plugin Config**—Upload plugin configuration files. *Currently undocumented.*

Add an Allowed User to the Tenant

The steps below explain how to add an *existing* user to the current tenant. Before you begin, you should have created the user in the Kill Bill system by following the steps in the "[Add a User](#)" section.

1. Click on your username and tenant name in the upper right corner:



Kaui displays the Tenant Configuration page.

2. To the right of **Allowed Users**, click the plus icon ().

NAME	DESCRIPTION
admin	

Kaui displays the Add Allowed User pop-up.

The pop-up window has a title bar "Add Allowed User". It contains a "User name" input field and a blue "ADD" button at the bottom.

3. Type the user name into the **User name** field.
4. Click the **Add** button.

Kaui displays the newly added user to the Allowed Users list for the tenant.

Remove a User from the Tenant

Perform the steps below to remove a user from the current tenant. Note that this does not delete

the user from the Kill Bill system.



Warning: Deleting the `admin` user for a tenant means will remove administrative access to the tenant.

1. Click on your username and tenant name in the upper right corner:

The screenshot shows the Kill Bill Kauai interface. At the top right, there is a user session indicator showing 'admin / t_demo' and a 'SIGN OUT' link. A large red arrow points towards this area.

Kauai displays the Tenant Configuration page.

2. In the **Allowed Users** section, click the black X to the right of the user to remove:

The screenshot shows the 'Tenant Configuration' page with the 'Allowed Users' section highlighted. A table lists users with columns 'NAME' and 'DESCRIPTION'. The user 'mary' is listed with the description 'Managed User'. To the right of the 'NAME' column, there is a delete button represented by a small 'X'. A large red arrow points to this 'X' button.

NAME	DESCRIPTION
mary	Managed User

3. Click **OK** to confirm the deletion.

Users, Roles, and Permissions

Overview

In this guide, "users" refers to those who log in to Kaui to perform actions (add a charge, generate a dry-run invoice, etc.). However, other parts of the documentation also use the term "user" when referring to users of the API.

In order for Kaui users to be able to log in and perform tasks, you need to create a *user profile* for each one. A user profile stores the username and password as well as the following:

- The user's roles (i.e., permissions in the system)
- The tenants the user can access

In this section, you'll learn how to manage users in Kaui, which includes:

- Creating user roles
- Creating and editing users
- Assigning roles and tenants to users

Before You Begin

Before you begin working with users, make sure that:

- You can log in as a Kaui admin. OR
- You can log in as a user with the correct permissions for working with users, roles, and permissions.

In addition, you should already have at least one [tenant](#) set up in Kaui.

Additional Resources

For additional information on managing users, roles, and permissions in Kill Bill, see the following:

- [Users, Roles, and Permissions Management](#)
- [Multi-Tenancy and Authorization](#)
- [List of user permissions](#)

Managing Users with a Third-Party System

If your organization uses a third-party system, such as LDAP, Okta, or Auth0, to manage Kill Bill users and roles, first configure them in that system, then add them in Kaui. For more information, see [Users, Roles, and Permissions Management](#).

In Kaui, all that's required is to add the username per the [Add a User](#) section, then [edit the user profile](#) to define passwords and roles.

Managing Users with Kill Bill

If you are using the Kill Bill database to store user data, adding a user profile in Kaui automatically creates it in Kill Bill.

Create a User Role

The role (or roles) assigned to a user defines which tasks the user can perform in the system (for example, perform a chargeback or add a custom field).

To create a user role:

1. Open the Add New Role Definition screen, either from the User Update screen (see [Edit a User](#)) or by accessing https://<your_host>/kaui/role_definitions/new.

Add New Role Definition

Role name

Permissions
Comma separated, e.g. account:create,entitlement:change_plan,invoice:credit

SAVE

2. Enter the **Role name** for the user. Do not use any spaces in the role name.
3. Enter all the **Permissions** that are associated with this role. See the [list of Kill Bill user permissions](#) as a reference.
4. Click the **Save** button.

Open the User List

To open a list of Kaui users:

At the top of the screen, click the gears icon () and select **Users**.



Kaui displays the Users screen:

The screenshot shows the KilloBill user management interface. At the top, there is a navigation bar with the KilloBill logo, a search bar, and links for 'CREATE NEW ACCOUNT', 'SIGN OUT', and other system settings. Below the navigation is a section titled 'Kaui Users' with a plus icon. A table lists three users: 'admin', 'admin1', and 'admin2'. The table has columns for 'NAME' and 'DESCRIPTION'.

On this screen, you can [add a user](#) by clicking the plus icon. To open a user's details to [edit](#) or [delete](#), click the username.

Add a User

1. [Open the users list.](#)
2. Select the plus icon () next to **Kaui Users**.

Kaui displays the Add New User pop-up:

The 'Add New User' pop-up form contains the following fields:

- A checkbox labeled 'Managed externally (LDAP, Okta, etc.)?'
- A 'Name' input field.
- A 'Password' input field.
- A 'Description' input field.
- A 'Roles' input field with a note: 'Comma separated, e.g. customer_support,finance.' and a link 'Create a new role [here](#)'.

A 'SAVE' button is at the bottom.

3. Fill in the user fields. For field descriptions, see [Add New User Field Descriptions](#).
4. Click the **Save** button. Kaui displays the Configured Tenants pop-up:

The 'Configured Tenants' pop-up form contains the following list:

- analytics
- t_demo

A 'SAVE' button is at the bottom.

5. Select the tenant(s) the user has access to.
6. Click the **Save** button.

Edit a User

Use the steps in this section to change the user's name, password, or role.

1. Open the user list.

The screenshot shows the Kill Bill application interface. At the top, there is a navigation bar with the Kill Bill logo, a search bar, and links for 'CREATE NEW ACCOUNT', 'SIGN OUT', and other system settings. Below the navigation bar, a section titled 'Kaui Users' contains a table with two columns: 'NAME' and 'DESCRIPTION'. The table lists four users: 'admin', 'admin1', 'admin2', and another 'admin1' entry. The 'admin1' entry is highlighted with a blue border.

2. Select the user you want to edit.

Kaui displays the User Details screen with the user's allowed tenants below.

The screenshot shows two overlapping modal windows. The top window is titled 'User Details' and contains fields for 'Name: admin1', 'Description:', and 'Roles:'. The bottom window is titled 'Configured Tenants' and lists several tenant names with checkboxes: 'bob' (checked), 'tenant', 'tenant2', 'greylogin', 'multi3', and 'analytics'. A 'SAVE' button is located at the bottom of the tenants window.

3. To edit the *tenant*, select or deselect the appropriate boxes and click the **Save** button.
4. To edit other user information, click **Edit** (next to **User Details**).

Kaui displays the Update User screen:

Update User

Managed externally (LDAP, Okta, etc.)?

Name: [Redacted]

Password: [Redacted]

Description: Managed User

Roles: consumer-role
 Comma separated, e.g. customer_support,finance.
[Create a new role here.](#)

SAVE

5. Fill in the user fields. For field descriptions, see [Add New User Field Descriptions](#).

6. Click the **Save** button.

Add New User Field Descriptions

Field	Description
Managed externally (LDAP, Okta, etc.)?	Check this box if you are managing users in a third-party system. Otherwise, leave it unchecked.
Name	Enter the user's name.
Password	Enter the user's password. For security, Kaui does not display any existing passwords in this field, but you can type in a different one. It may be easier to copy and paste the password into this field.
Description	To provide a brief description of this user or his/her role, type it here. Kaui displays this description on the Allowed Users list on the Tenant screen.
Roles	Enter the roles that are associated with this user. You also have the option to create a new role .

Delete a User

The following steps explain how to delete a user from the system (i.e., for both Kaui and Kill Bill). Deleting a user also removes the user's access to any assigned tenants.

1. [Open the user list](#).

The screenshot shows the Kill Bill user interface. At the top, there is a navigation bar with the Kill Bill logo, a search bar, and links for 'CREATE NEW ACCOUNT', 'SIGN OUT', and other account management options. Below the navigation is a list titled 'Kauai Users' with a '+' button. The list displays three users: 'admin', 'admin1', and 'admin2'. Each user entry has a small edit icon next to it.

2. Select the user you want to delete.

Kauai displays the User Details screen (with the user's allowed tenants below).

The screenshot shows two overlapping windows. The top window is titled 'User Details' and contains fields for 'Name: admin1', 'Description:', and 'Roles:'. The bottom window is titled 'Configured Tenants' and lists several tenant names with checkboxes: 'bob' (checked), 'tenant', 'tenant2', 'greylogin', 'multi3', and 'analytics'. A 'SAVE' button is at the bottom of this window.

3. Click the **X** icon. Kauai displays a message to confirm the deletion.
4. Click **OK**.
5. Kauai displays the login screen and asks you to confirm your login credentials.

After you successfully log in, Kauai deletes the user.

Catalog

Overview

This chapter explains how to use the Catalog Show tab to create and manage catalogs:

- [View catalog products and plans](#)
- [Create a simple catalog](#)
- [Upload an XML catalog](#)
- [View the catalog as XML](#)
- [Delete a catalog](#)
- [Download the catalog](#)

On this tab, you can also [add a currency to a plan](#).

Additional Catalog Resources

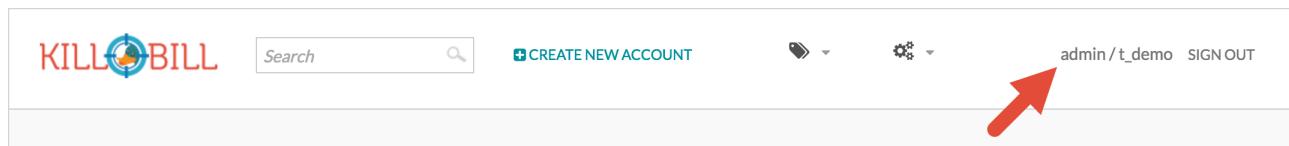
- [Catalog API](#)
- "Catalog" section in *Subscription Guide*

View Catalog Products and Plans

You can view the current catalog's products and plans on the Catalog Show tab located at the bottom of the Tenant Configuration page.

To get there:

1. Click on your username and tenant name in the upper right corner:



Kauai displays the Tenant Configuration page.

2. Scroll down until you see the Catalog Show tab:

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Catalog Show" tab is highlighted with a red arrow and a red box. Other tabs visible include "Overdue Show", "Invoice Template", "Invoice Translation", "Catalog Translation", and "Plugin Config".

Tenant Details

Name: Kill Bill

Existing Plans + ⏪ ⏩ × Enable XML View

Catalog Versions: 2022-01-10T19:38:34.000Z

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD	TRIAL
Auto-update-monthly	Auto-Update	Add-on	Monthly	7.99	N/A
Basic	Listmaker	Base	Monthly	14.99	N/A

Useful Links

- Parked accounts

Create a Simple Catalog

1. Go to the Catalog Show tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Catalog Show" tab is highlighted with a red arrow and a red box. Other tabs visible include "Overdue Show", "Invoice Template", "Invoice Translation", "Catalog Translation", and "Plugin Config".

Tenant Details

Name: Kill Bill

Existing Plans + ⏪ ⏩ × Enable XML View

Catalog Versions: 2022-01-10T19:38:34.000Z

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD	TRIAL
Auto-update-monthly	Auto-Update	Add-on	Monthly	7.99	N/A
Basic	Listmaker	Base	Monthly	14.99	N/A

Useful Links

- Parked accounts

2. Click the plus sign () next to Existing Plans.

Kauai opens the Catalog Configuration screen:

Catalog Configuration [Enable Advanced Configuration \(Upload XML\)](#)

Product Category	Base
Product Name	
Plan Name	
Amount	0
Currency	USD
Billing Period	Monthly
Trial Length	0
Trial Time Unit	Unlimited
SAVE	

3. Fill in the fields. For field descriptions, see [Catalog Configuration Field Descriptions](#).

4. Click the **Save** button.

Catalog Configuration Field Descriptions

For additional field information, see the [Catalog API](#).

Field	Description
Product Category	Define whether this product is of the BASE , ADDON , or STANDALONE category: <ul style="list-style-type: none"> • Base products can have one or more addons. • Add-on products can be bundled with a base product. • Standalone products cannot have any add-ons.
Product Name	The name assigned to the product you are selling.
Plan Name	The name of the plan, which defines how the product will be sold (for example, a monthly subscription or a one-time purchase).
Amount	The price of the plan to be paid every billing period.
Currency	The currency this plan uses. If you need to add more currencies, you can do so by adding a currency to a plan .
Billing Period	The period for which the customer is billed.
Trial Length	Along with a unit of time (Trial Time Unit below), defines the length of the trial.
Trial Time Unit	Along with the Trial Length number above, specifies the time interval for the trial.

Add a Currency to a Plan

1. Go to the Catalog Show tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration page with the Catalog Show tab highlighted by a red arrow. The page includes sections for Tenant Details (Name: Kill Bill), Useful Links (Parked accounts), Existing Plans (Auto-update-monthly, Basic), and Catalog Versions (2022-01-10T19:38:34.000Z). A table lists PLAN ID, PRODUCT, CATEGORY, BILLING PERIOD, and TRIAL for each plan, with USD selected as the currency.

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD	TRIAL
Auto-update-monthly	Auto-Update	Add-on	Monthly	7.99	N/A + currency
Basic	Listmaker	Base	Monthly	14.99	N/A + currency

2. On the row of the plan for which you want to add a currency, click + currency on the far right.

Kaui displays the Add Plan Currency screen:

The screenshot shows the Catalog (Add Plan Currency) form. It has fields for Plan ID (Auto-update-monthly), Amount (empty), and Currency (USD). A SAVE button is at the bottom.

3. Fill in the fields:

- **Plan ID**—By default, Kaui fills in this field based on the plan you selected, but you can change it to a different plan ID.
- **Amount**—The cost of the plan in the new currency you’re adding.
- **Currency**—The currency you are adding.

4. Click the **Save** button. Kaui displays the new currency on the Catalog Show tab.

Upload an XML Catalog

The Kill Bill catalog is stored in XML format. This section explains how to upload an XML file that contains the product catalog information.



Note: You cannot edit a raw XML catalog in Kaui.

If you are replacing a catalog with a newer version, ensure that <catalogName> in the XML file is the same as the existing catalog. The catalog filename does not need to be the same.



Note: To ensure a successful catalog file upload, check its validity with the [Kill Bill catalog validation tool](#).

To upload an XML catalog in Kaui:

1. Go to the Catalog Show tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Catalog Show" tab is highlighted with a red arrow. Other tabs visible include Overdue Show, Invoice Template, Invoice Translation, Catalog Translation, and Plugin Config. A sidebar titled "Useful Links" contains a link to "Parked accounts". Below the tabs is a section for "Existing Plans" with a "Catalog Versions" dropdown set to "2022-01-10T19:38:34.000Z". A table lists two plans: "Auto-update-monthly" and "Basic".

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD	TRIAL
Auto-update-monthly	Auto-Update	Add-on	Monthly	7.99	N/A <small>+ currency</small>
Basic	Listmaker	Base	Monthly	14.99	N/A <small>+ currency</small>

2. Click the plus sign () next to Existing Plans.

Kaui opens the Catalog Configuration screen:

The screenshot shows the Catalog Configuration screen. It includes fields for Product Category (set to "Base"), Product Name, Plan Name, Amount (set to "0"), Currency (set to "USD"), Billing Period (set to "Monthly"), Trial Length (set to "0"), and Trial Time Unit (set to "Unlimited"). A "SAVE" button is at the bottom.

3. Click on Enable Advanced Configuration (Upload XML).

Kaui displays an upload screen:

Advanced Configuration Enable Simple Configuration

No file chosen

- Click the **Choose File** button, locate the XML file, and select it.

Once you have selected the file, Kaui displays the filename next to the **Choose File** button.

Advanced Configuration Enable Simple Configuration

catalog_2022-01-10T19_38_34.000Z.xml

- Click the **Upload** button.

If the upload is successful, Kaui displays a confirmation message along with a list of plans on the Catalog Show tab:

Catalog was successfully uploaded

Tenant Details

Catalog Show Overdue Show Invoice Template Invoice Translation Catalog Translation Plugin Config

Existing Plans + - Enable XML View

Catalog Versions: 2022-01-10T19:38:34.000Z ▼

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD ▼	TRIAL
remotecontrol-monthly	RemoteControl	Add-on	Monthly	15	N/A + currency
standard-monthly	Standard	Base	Monthly	25	N/A + currency

Useful Links



Note: If you receive an "Invalid catalog for tenant" error, run the catalog through the [Kill Bill catalog validation tool](#) (if you haven't already). You can also [delete the existing catalog](#) and retry the upload steps.

View the Catalog as XML

- Go to the Catalog Show tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration interface. On the left, under 'Tenant Details', the name is listed as 'Kill Bill'. On the right, under 'Useful Links', there is a link to 'Parked accounts'. Below these sections is a navigation bar with tabs: 'Catalog Show' (which has a red arrow pointing to it), 'Overdue Show', 'Invoice Template', 'Invoice Translation', 'Catalog Translation', and 'Plugin Config'. Underneath the tabs, there is a section titled 'Existing Plans' with a '+' icon, a dropdown menu, and a 'Enable XML View' link. A table titled 'Catalog Versions' shows two entries: 'Auto-update-monthly' and 'Basic'. The table includes columns for PLAN ID, PRODUCT, CATEGORY, BILLING PERIOD, USD (with a dropdown arrow), and TRIAL. The 'Basic' plan is listed as 'Listmaker' under the 'PRODUCT' column.

2. Click Enable XML View.

Kaui displays the a list of catalog versions:

The screenshot shows the 'Catalog XML' view. At the top, there is a header with tabs: 'Catalog Show' (selected), 'Overdue Show', 'Invoice Template', 'Invoice Translation', 'Catalog Translation', and 'Plugin Config'. Below the header, there is a section titled 'Catalog XML' with a 'Enable Simple Configuration' link. A table lists a single catalog version: '0' (Catalog Version), '2022-01-10T19:38:34.000Z' (Effective Date), and a 'view xml' link (Catalog XML).

3. Click view xml. Kaui displays the raw XML (uneditable in this view).

```
<catalog xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="CatalogSchema.xsd">
  <effectiveDate>2022-01-10T19:38:34Z</effectiveDate>
  <catalogName>DEFAULT</catalogName>
  <currencies>
    <currency>USD</currency>
  </currencies>
  <units/>
  <products>
    <product name="Auto-Update" prettyName="Auto-Update">
      <category>ADD_ON</category>
      <included/>
      <available/>
      <limits/>
    </product>
    <product name="Listmaker" prettyName="Listmaker">
      <category>BASE</category>
      <included/>
      <available>
        <addonProduct>Auto-Update</addonProduct>
      </available>
      <limits/>
    </product>
  </products>
</catalog>
```

4. To return to Kaui, click the Back arrow button of your browser.

Delete a Catalog

1. Go to the Catalog Show tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Catalog Show" tab is highlighted with a red arrow. The "Existing Plans" section shows two plans: "Auto-update-monthly" and "Basic". The "Catalog Versions" dropdown is set to "2022-01-10T19:38:34.000Z".

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD	TRIAL
Auto-update-monthly	Auto-Update	Add-on	Monthly	7.99	N/A
Basic	Listmaker	Base	Monthly	14.99	N/A

- Click the red X (✖) to the left of **Enable XML View**.

Kaui removes the plans from the Catalog Show tab and displays a successful deletion message.

Download the Catalog

The steps below explain how to download the current Kill Bill catalog in XML format.

- Go to the **Catalog Show** tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Catalog Show" tab is highlighted with a red arrow. The "Existing Plans" section shows two plans: "Auto-update-monthly" and "Basic". The "Catalog Versions" dropdown is set to "2022-01-10T19:38:34.000Z".

PLAN ID	PRODUCT	CATEGORY	BILLING PERIOD	USD	TRIAL
Auto-update-monthly	Auto-Update	Add-on	Monthly	7.99	N/A
Basic	Listmaker	Base	Monthly	14.99	N/A

- Click the down arrow (⬇).

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Catalog Show" tab is highlighted. A red arrow points to the down arrow icon in the "Existing Plans" section. The "Existing Plans" section also includes a red X icon and the text "Enable XML View".

Kaui downloads the **.xml** file to your default download folder on your local drive.

Overdue

Overview

Kaui lets you configure basic settings for how the system behaves when an account is overdue. For overdue configuration, you define:

- The various states that the account must go through
- The change in users' entitlements when the account is transitioned from one state to the other
- The period after which the state is re-evaluated

These three pieces of information make up the *overdue flow*.

Overdue configuration applies at the tenant level. However you can also configure overdue flows for the *global* Kill Bill system.

In Kaui, overdue configuration is a subset of the full overdue configuration settings. For more information on the full configuration settings and global settings, see the [Overdue System Guide](#).

See the following sections to create overdue (dunning) flows for a tenant:

- [View overdue configuration](#)
- [Create overdue flows](#)
- [Upload an XML overdue configuration file](#)
- [View overdue configuration as XML](#)
- [Delete overdue flows](#)

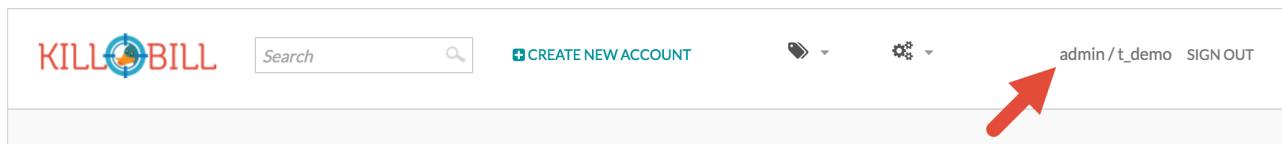
Additional Overdue Resources

- "Overdue" section in the *Subscription Guide*.
- [Overdue System Guide](#)

View Overdue Configuration

If any overdue (dunning) flows are configured, you can see them on the Overdue Show tab at the bottom of the Tenant Configuration page. To get there:

1. Click on your username and tenant name in the upper right corner:



Kaui displays the Tenant Configuration page.

2. Scroll down and click on the Overdue Show tab:

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Overdue Show" tab is highlighted with a red box and arrow. Other tabs include Catalog Show, Invoice Template, Invoice Translation, Catalog Translation, and Plugin Config. A section titled "Existing Overdue Config" contains a "View Overdue XML" link and a note stating "No overdue configuration defined for tenant".

Create Overdue Flows

The following steps explain how to set up overdue flows (i.e., actions) for the tenant.

1. Go to the Overdue Show tab on the Tenant Configuration page.

This screenshot is identical to the one above, showing the Tenant Configuration page for "Kill Bill" with the "Overdue Show" tab selected. The "Existing Overdue Config" section is empty.

2. Click the plus sign (+) next to Existing Overdue Config.

Kaui opens the Overdue Configuration screen:

The Overdue Configuration screen displays a table for defining new overdue states. The columns are labeled: EXTERNAL NAME, MESSAGE, BLOCK SUBSCRIPTION CHANGES, SUBSCRIPTION CANCELLATION, DAYS SINCE EARLIEST UNPAID INVOICE, TAG INCLUSION, TAG EXCLUSION, NUMBER OF UNPAID INVOICES, and TOTAL UNPAID INVOICE BALANCE. A "SAVE" button is at the bottom.

EXTERNAL NAME	MESSAGE	BLOCK SUBSCRIPTION CHANGES	SUBSCRIPTION CANCELLATION	DAYS SINCE EARLIEST UNPAID INVOICE	TAG INCLUSION	TAG EXCLUSION	NUMBER OF UNPAID INVOICES	TOTAL UNPAID INVOICE BALANCE

3. Click + New Overdue States. Kaui opens the fields for editing:

The Overdue Configuration screen shows a row for a new overdue state. The "NAME" field is "Clear", and the "EXTERNAL MESSAGE" field is empty. The "BLOCK SUBSCRIPTION CHANGES" dropdown is set to "false". The "SUBSCRIPTION CANCELLATION" dropdown is set to "NONE". The "DAYS SINCE EARLIEST UNPAID INVOICE" dropdown is set to "0". The "TAG INCLUSION" and "TAG EXCLUSION" dropdowns are both set to "NONE". The "NUMBER OF UNPAID INVOICES" and "TOTAL UNPAID INVOICE BALANCE" fields are both set to "0". A red box highlights the "Clear" name and the first two dropdowns. A "SAVE" button is at the bottom.

NAME	EXTERNAL MESSAGE	BLOCK SUBSCRIPTION CHANGES	SUBSCRIPTION CANCELLATION	DAYS SINCE EARLIEST UNPAID INVOICE	TAG INCLUSION	TAG EXCLUSION	NUMBER OF UNPAID INVOICES	TOTAL UNPAID INVOICE BALANCE
Clear		false	NONE	0	NONE	NONE	0	0

4. Fill in the fields for the current row. For field information, see the [Overdue Configuration Field](#)

Descriptions table.

- To add another overdue configuration row, click + new overdue states.

The screenshot shows the 'Overdue Configuration' screen. At the top, there's a link to 'Enable Advanced Configuration (Upload XML)'. Below that is a table with columns: NAME, EXTERNAL MESSAGE, BLOCK, SUBSCRIPTION CHANGES, and SUBSCRIPTION CANCELLATION. A row is currently selected, showing 'Clear' in the NAME column, 'Alert regarding your subscri' in the EXTERNAL MESSAGE column, 'true' in the BLOCK dropdown, and 'NONE' in the SUBSCRIPTION CANCELLATION dropdown. A red arrow points to the '+ new overdue states' button at the top left of the table area.

Overdue Configuration				Enable Advanced Configuration (Upload XML)
+ new overdue states		BLOCK	SUBSCRIPTION CHANGES	SUBSCRIPTION CANCELLATION
NAME	EXTERNAL MESSAGE			
Clear	Alert regarding your subscri	true	✓	NONE

- When you are done adding configuration rows, click the **Save** button. Kaui displays a success message at the top of the screen and displays the new overdue flow(s) on the Overdue Show tab.

The screenshot shows the 'Existing Overdue Config' screen. At the top, there are tabs: Catalog Show, Overdue Show (which is selected), Invoice Template, Invoice Translation, Catalog Translation, and Plugin Config. Below the tabs, there's a link to 'View Overdue Xml'. The main area displays two rows of configuration:

NAME	EXTERNAL MESSAGE	ACTIONS	CONDITIONS
WARNING	Warning State		<ul style="list-style-type: none"> Time Since earliest unpaid invoice >= 5DAYS Number of unpaid invoices >= 0 Total unpaid invoice balance >= 0
CANCELLATION	Cancellation state	<ul style="list-style-type: none"> Block changes:true Cancel subscriptions:true (policy:END_OF_TERM) 	<ul style="list-style-type: none"> Time Since earliest unpaid invoice >= 10DAYS Number of unpaid invoices >= 0 Total unpaid invoice balance >= 0



Note: To edit an existing overdue flow, on the Overdue Show tab, click the plus sign (+) next to **Existing Overdue Config**. This opens the overdue configuration fields in edit mode.

Overdue Configuration Field Descriptions

Field	Description
Name	The name assigned to the overdue state.
External Message	Message text that other plugins, when listening for overdue events, can retrieve and display to the user. <i>(Optional)</i>
Block Subscription Changes	If set to true , the customer <i>cannot</i> make plan changes to the subscription in this overdue flow. If set to false , the customer is allowed to make changes.

Field	Description
Subscription Cancellation	<p>Select the option that describes how Kill Bill behaves regarding a cancellation in this overdue flow:</p> <ul style="list-style-type: none"> • NONE: Kill Bill ignores this field, and the subscription is not cancelled. • POLICY_NONE: Same as NONE above. • POLICY_IMMEDIATE_POLICY: Cancels the subscription immediately and applies a partial credit to the account based on how much of the service has been consumed. • POLICY_END_OF_TERM: Cancels the subscription at the end of the billing period with no refund to the customer (i.e., no proration).
Days Since Earliest Unpaid Invoice	Specifies how many days should pass after the last unpaid invoice before initiating this overdue flow.
Tag Inclusion	<p>Specifies that the overdue flow will occur if the account has a system (control) tag matching the one selected here. To disregard tag inclusion for this overdue flow, leave as the default NONE setting.</p> <ul style="list-style-type: none"> • AUTO_PAY_OFF • AUTO_INVOICING_OFF • OVERDUE_ENFORCEMENT_OFF • MANUAL_PAY • TEST • PARTNER <p>For a description of system tags, see the "Tags" section of the <i>Subscription Guide</i>.</p>
Tag Exclusion	Specifies that overdue flow will occur if the account has NO system (control) tags matching the one selected here. To disregard tag exclusion for this overdue flow, leave as the default NONE setting.
Number of Unpaid Invoices	Specifies that the overdue flow will occur if the number of unpaid invoices equals or exceeds the specified value.
Total Unpaid Invoice Balance	Specifies that the overdue action will occur if the total unpaid invoice balance equals or exceeds the specified value.

Upload an XML Overdue Configuration File

Kill Bill overdue configuration is stored in XML format. This section explains how to upload an XML file that contains the overdue configuration.



Note: You cannot edit a raw overdue configuration XML file in Kaui.

1. Go to the Overdue Show tab on the Tenant Configuration page.

The screenshot shows the Tenant Configuration page for a tenant named "Kill Bill". The "Overdue Show" tab is highlighted with a red box and an arrow pointing to it. Other tabs visible include Catalog Show, Invoice Template, Invoice Translation, Catalog Translation, and Plugin Config. A section titled "Existing Overdue Config" contains a "View Overdue Xml" link. A note states "No overdue configuration defined for tenant".

2. Click the plus sign () next to Existing Overdue Config.

Kaui opens the Overdue Configuration screen:

The screenshot shows the Overdue Configuration screen. It includes a table with columns: EXTERNAL NAME, MESSAGE, BLOCK SUBSCRIPTION CHANGES, SUBSCRIPTION CANCELLATION, DAYS SINCE EARLIEST UNPAID INVOICE, TAG INCLUSION, TAG EXCLUSION, NUMBER OF UNPAID INVOICES, and TOTAL UNPAID INVOICE BALANCE. A "SAVE" button is located at the bottom of the table.

3. Click Enable Advanced Configuration (Upload XML). Kaui displays an upload screen:

The screenshot shows the "Upload Overdue XML Config" screen. It features a "Choose File" input field containing "No file chosen" and a teal "UPLOAD" button below it.

4. Click the Choose File button, locate the XML file, and select it.

Once you have selected the file, Kaui displays the filename next to the Choose File button.

The screenshot shows the "Upload Overdue XML Config" screen after a file has been selected. The "Choose File" input field now displays "overdue_V2.xml".

5. Click the Upload button.

If the upload is successful, Kaui displays a success message at the top of the screen and displays the overdue flow(s) on the Overdue Show tab.

Catalog Show Overdue Show Invoice Template Invoice Translation Catalog Translation Plugin Config

Existing Overdue Config [View Overdue Xml](#)

NAME	EXTERNAL MESSAGE	ACTIONS	CONDITIONS
WARNING	Reached WARNING	<ul style="list-style-type: none"> Block changes:true Cancel subscriptions:true (policy:NONE) 	<ul style="list-style-type: none"> Time Since earliest unpaid invoice >= 10DAYS
BLOCKED	Reached BLOCKED	<ul style="list-style-type: none"> Block changes:true 	<ul style="list-style-type: none"> Time Since earliest unpaid invoice >= 14DAYS
CANCELLATION	Reached CANCELLATION		<ul style="list-style-type: none"> Time Since earliest unpaid invoice >= 21DAYS

View Overdue Configuration as XML

1. Go to the Overdue Show tab on the Tenant Configuration page.

Tenant Details

Name: Kill Bill

Catalog Show **Overdue Show** Invoice Template Invoice Translation Catalog Translation Plugin Config

Existing Overdue Config [View Overdue Xml](#)

No overdue configuration defined for tenant

2. Click **View Overdue XML** to the right of the plus sign (**+**). Kaui displays the raw XML (uneditable in this view).
3. To return to Kaui, click the Back arrow button of your browser.

Delete Overdue Flows

1. Go to the Overdue Show tab on the Tenant Configuration page.

Tenant Details

Name: Kill Bill

Catalog Show **Overdue Show** Invoice Template Invoice Translation Catalog Translation Plugin Config

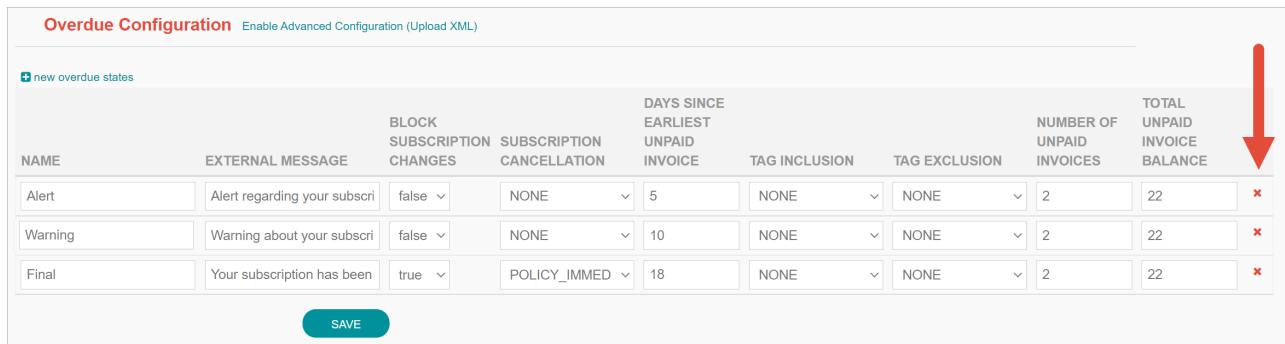
Existing Overdue Config [View Overdue Xml](#)

No overdue configuration defined for tenant

2. Click the plus sign (**+**) next to **Existing Overdue Config**.

Kaui opens the Overdue Configuration screen.

3. Click the red X () to the right of every configuration row you want to delete.



The screenshot shows the 'Overdue Configuration' page. At the top, there's a link to 'Enable Advanced Configuration (Upload XML)'. Below that, a button for 'new overdue states' is visible. The main area contains a table with the following columns: NAME, EXTERNAL MESSAGE, BLOCK SUBSCRIPTION CHANGES, SUBSCRIPTION CANCELLATION, DAYS SINCE EARLIEST UNPAID INVOICE, TAG INCLUSION, TAG EXCLUSION, NUMBER OF UNPAID INVOICES, and TOTAL UNPAID INVOICE BALANCE. There are three rows of data:

NAME	EXTERNAL MESSAGE	BLOCK SUBSCRIPTION CHANGES	SUBSCRIPTION CANCELLATION	DAYS SINCE EARLIEST UNPAID INVOICE	TAG INCLUSION	TAG EXCLUSION	NUMBER OF UNPAID INVOICES	TOTAL UNPAID INVOICE BALANCE
Alert	Alert regarding your subscri	false ▾	NONE ▾	5	NONE ▾	NONE ▾	2	22
Warning	Warning about your subscri	false ▾	NONE ▾	10	NONE ▾	NONE ▾	2	22
Final	Your subscription has been	true ▾	POLICY_IMMED ▾	18	NONE ▾	NONE ▾	2	22

A red arrow points to the delete icon (red X) in the last column of the third row. At the bottom of the table is a 'SAVE' button.

4. Click the **Save** button.

Kaui removes the overdue configuration row(s) from the Overdue Show tab and displays a delete confirmation message.

Translation Files

Overview

Kill Bill supports the ability to generate emails and invoices in various languages as long as the required translation files are present in the system. Three tabs on the Tenant Configuration page enable you to upload these files:

- Invoice Template
- Invoice Translation
- Catalog Translation

The screenshot shows a horizontal navigation bar with five tabs: 'Catalog Show', 'Overdue Show', 'Invoice Template' (which is highlighted with a red border), 'Invoice Translation', 'Catalog Translation', and 'Plugin Config'. Below the tabs is a file upload form. It includes a 'Choose File' button with the placeholder 'No file chosen', a checkbox labeled 'Manual Pay', and a prominent blue 'UPLOAD' button.

The functionality of these tabs is very similar. To avoid repetition, we've included instructions for just one tab, with any differences noted.

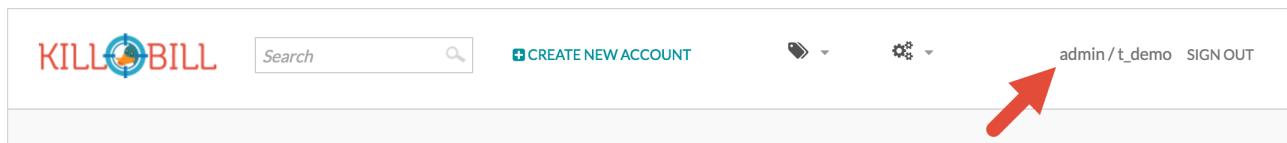
Additional Translation Resources

- [Invoice Templates](#)
- [Email Notification Plugin](#)
- [Internationalization](#)

View Translation Tabs

To get there:

1. Click on your username and tenant name in the upper right corner:



Kauai displays the Tenant Configuration page.

2. Scroll down to see the translation tabs:

Upload a Translation File

1. [Go to the Tenant Configuration page](#) and scroll down to the translation tabs.
2. Select the appropriate translation tab for the file you want to upload.
3. Click the **Choose File** button, locate the translation file, and select it.

Once you have selected the file, Kaui displays the filename next to the **Choose File** button.

4. *For Invoice Templates only:* If this invoice template supports the manual pay option (for accounts that have the `MANUAL_PAY` tag), select the **Manual Pay** checkbox. (For more information, see the "[Templates](#)" section of the API.)

5. *For Invoice Translation and Catalog Translation only:* In the **Locale** field, specify the language supported by the uploaded file using the ISO *country_language* format.

6. Click the **Upload** button.

If the upload is successful, Kaui displays a success message at the top of the screen and lists the file on the tab.

Tags

Overview

In Kaui, you can apply one or more tags to accounts and invoices, a tag being a single value. Tags in Kill Bill can be used to convey information about an object type. A tag can just provide information about an object (user tag) or it can actually affect how the object is handled in Kill Bill (control tag).

This section explains how to attach tags to accounts and invoices. It also describes the steps for creating the tag definitions on which a tag is based.



Note: You can use the API to attach tags to even more object types, such as payments and subscriptions. For more information, see the "Tags" section of the relevant object type section (for example, Payments) in the [API Reference](#).

Types of Tags

Kill Bill has two types of tags:

- **Control tags**—Also referred to as *system tags*, these tags modify the behavior of the system. In Kaui, you can view and attach these tags, but you cannot add, change, or delete the underlying [tag definition](#). Kill Bill includes several control tags; see the API documentation for [a list](#).
- **User tags**—These tags are not interpreted by Kill Bill; they are a way for admins or third-party systems to annotate specific existing resources. For instance, the support team could tag account resources associated with a specific customer to group them. In Kaui, you can create and delete user tags on the [Tag Definition page](#).



Note: Kill Bill does not include default user tags.

You can view all available tags on the [Tag Definitions page](#).

About Tag Definitions

A tag is based on a *tag definition*. As its name implies, a *tag definition* defines information about a specific tag. In Kaui, you must create a tag definition for a user tag before you can attach it to an account or invoice.

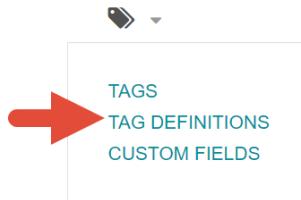
Additional Tag Resources

API Reference:

- [Tag](#)
- [Tag Definition](#)

View All Tags

To see a list of all available tags in the current tenant, select the tag icon at the top of the screen, then select **Tag Definitions**:



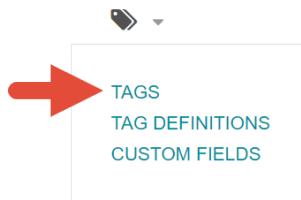
Kaui displays the Tag Definitions page.

ID	NAME	DESCRIPTION	SYSTEM TAG?	APPLICABLE TYPES	
a7c8c525-...-f9e0e043e2c2	yellow	yellow tag	false	ACCOUNT	Destroy
00000000-...-000000000001	_PARK_	Accounts with invalid invoicing state	true	ACCOUNT	
00000000-...-000000000001	AUTO_PAY_OFF	Suspends payments until removed.	true	ACCOUNT	

View Objects with Attached Tags

This section explains how to view objects that have attached tags. You can view *all* the objects with tags for the current tenant; you can also view the tags for a specific account (or invoice).

To see a list of *all* the objects in the tenant with an attached tag, select the tag icon at the top of the screen, then select **Tags**:



Kaui displays the Tags page.

Tags			
Show	50	entries	Search:
TAG ID	OBJECT ID	OBJECT TYPE	TAG DEFINITION NAME
3e5b5002-5719-47a8-ae86-552d5cf8b4d3	1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	red
5b3fce3-395e-4d4a-8856-8aa7ebcc5560	c2c35fa0-8225-49c5-ace0-8d971df05161	INVOICE	WRITTEN_OFF
70ee7475-a38c-4837-aacc-08299b2a0ff7	b60d4bee-137e-41b8-bbb1-0adccb6366ff	INVOICE	WRITTEN_OFF
1d3a0cd6-d9d4-4d93-8d57-a504c16ed1c8	1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	TEST

Showing 1 to 4 of 4 entries

First Previous **1** Next Last



Tip: On the Tags page, you can open the object (account, invoice, etc.) by clicking the link in the Object ID column.

To see any tags assigned to a specific account (or invoice):

1. Open the account on the Account page.
2. Click **Tags** on the sub-menu.

Kaui opens the Tags page and displays only the tags assigned to that account (or its related invoices and subscriptions).

Tags			
Show	10	entries	Search:
TAG ID	OBJECT ID	OBJECT TYPE	TAG DEFINITION NAME
1d3a0cd6-d9d4-4d93-8d57-a504c16ed1c8	1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	TEST
70ee7475-a38c-4837-aacc-08299b2a0ff7	b60d4bee-137e-41b8-bbb1-0adccb6366ff	INVOICE	WRITTEN_OFF

Showing 1 to 2 of 2 entries

Previous **1** Next

Add a Tag Definition

To create a new tag definition:

1. Open the Tag Definitions page as explain in "[View All Tags](#)".

ID	NAME	DESCRIPTION	SYSTEM TAG?	APPLICABLE TYPES	
a7c8c525-...-f9e0e043e2c2	yellow	yellow tag	false	ACCOUNT	Destroy
00000000-...-000000000001	__PARK__	Accounts with invalid invoicing state	true	ACCOUNT	
00000000-...-000000000001	AUTO_PAY_OFF	Suspends payments until removed.	true	ACCOUNT	

2. Next to **Tag Definitions**, click the plus sign ().

Kaui displays the Add New Tag Definition screen:

Add New Tag Definition

Object type 	ACCOUNT
Name	blue
Description	blue tag
SAVE	

3. Fill in the fields:

- **Object type**—The type of object that the tag can be attached to (for example, accounts). To allow this tag to be applied to other object types, click the plus sign icon () next to **Object type**.
- **Name**—The name of the tag.
- **Description**—Text that describes how the tag is used. Kaui will show this text on the Tag Definitions page.

4. Click the **Save** button. Kaui displays the new tag definition on the Tag Definitions page.

Tag definition successfully created

ID	NAME	DESCRIPTION	SYSTEM TAG?	APPLICABLE TYPES	
a7c8c525-...-f9e0e043e2c2	yellow	yellow tag	false	ACCOUNT	Destroy
5135a1b0-...-4de5679e5833	blue	blue tag	false	ACCOUNT	Destroy
00000000-...-000000000001	__PARK__	Accounts with invalid invoicing state	true	ACCOUNT	
00000000-...-000000000001	AUTO_PAY_OFF	Suspends payments until removed.	true	ACCOUNT	

Delete a Tag Definition



Warning: Kaui does not ask you to confirm your deletion; use this feature with caution.

In Kaui, you can delete a tag definition from the current tenant only if the related tag hasn't been attached to an object. If you try to delete such a tag definition, Kaui will prevent you.

To delete a tag definition:

1. Open the Tag Definitions page as explain in "[View All Tags](#)".

Tag definition successfully created

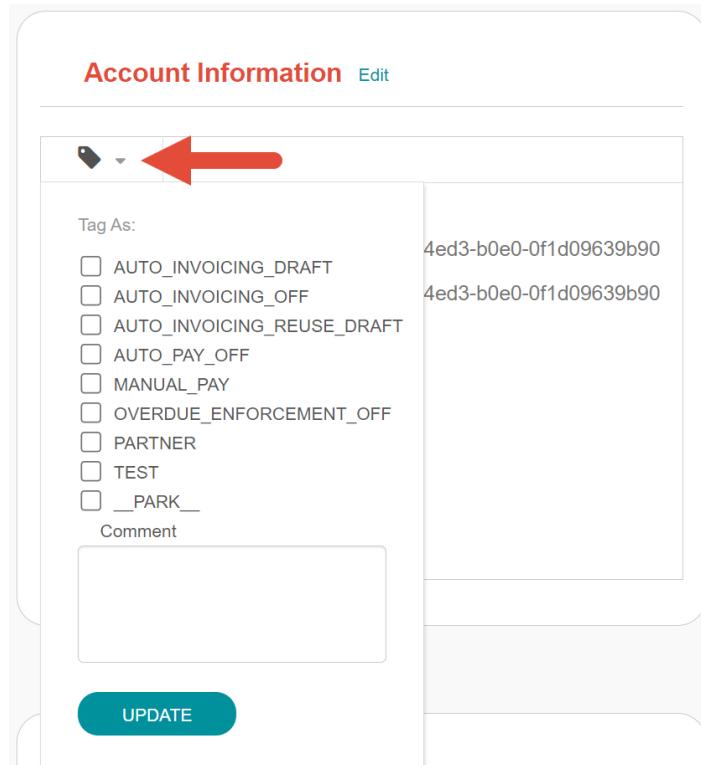
ID	NAME	DESCRIPTION	SYSTEM TAG?	APPLICABLE TYPES	
a7c8c525-...-f9e0e043e2c2	yellow	yellow tag	false	ACCOUNT	Destroy
5135a1b0-...-4de5679e5833	blue	blue tag	false	ACCOUNT	Destroy
00000000-...-000000000001	__PARK__	Accounts with invalid invoicing state	true	ACCOUNT	
00000000-...-000000000001	AUTO_PAY_OFF	Suspends payments until removed.	true	ACCOUNT	

2. On the tag definition row, click **Destroy**.

Attach or Remove a Tag

In Kaui, you can attach tags to accounts, invoices, and subscriptions. Attaching or removing a tag is basically the same whether it's an account, invoice, and subscription. The steps below explain how to attach and remove a tag to an account.

1. Open the account on the Accounts page.
2. Click the tag icon:



3. To *attach* a tag, select its checkbox. You can select more than one checkbox to attach multiple tags.

To *remove* a tag, click the box to clear it.

4. If you're attaching a tag, you can optionally add text in the **Comment** field. Kill Bill stores the Comment text in the tags audit log (accessible via API).
5. Click the **Update** button.

Custom Fields

Overview

Kill Bill enables you to create custom fields (key/value pairs) and attach them to objects like accounts, payments, and so forth. When used with custom plugins or third-party applications, custom fields can extend Kill Bill's functionality .

This section explains how to create custom fields and attach them to objects.



Note: Kill Bill does not include default custom fields.

Additional Custom Tag Resources

- API Reference for [Custom Field](#)
- "Custom Fields" section for object types in the [API Reference](#).

View All Custom Fields

This section explains how to view all of the custom fields defined for the tenant as well as the associated objects.

At the top of the screen, click the tag icon and select **Custom Fields**.



Kaui displays the Custom Fields page:

OBJECT ID	OBJECT TYPE	NAME	VALUE
39795d6-507a-4000-83ed-6960021a8df1	ACCOUNT	importance	very high
1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	importance	high



Tip: On the Custom Fields page, you can open the object (account, invoice, etc.) by clicking the link in the Object ID column.

View Custom Fields for an Account

This section explains how to view any custom fields for a specific account or other objects associated with that account (e.g., invoices, payments, subscriptions).

1. Open the account on the Account page.
2. Click **Custom Fields** on the sub-menu.

Kaui opens the Custom Fields page and displays only the custom fields assigned to that account or its related objects:

The screenshot shows a table titled "Custom Fields" with two entries. The columns are labeled "OBJECT ID", "OBJECT TYPE", "NAME", and "VALUE". The first entry is for an ACCOUNT object named "importance" with value "high". The second entry is for a BUNDLE object named "segment" with value "hospitality".

OBJECT ID	OBJECT TYPE	NAME	VALUE
1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	importance	high
c611ada0-f8b6-44bd-a4bd-ebb3d7e2347f	BUNDLE	segment	hospitality

Create and Attach a Custom Field

To create a custom field and attach it to an object:

1. Open the Custom Fields page as explain in "[View All Custom Fields](#)".

The screenshot shows a table titled "Custom Fields" with one entry. The columns are labeled "OBJECT ID", "OBJECT TYPE", "NAME", and "VALUE". The entry is for an ACCOUNT object named "importance" with value "high".

OBJECT ID	OBJECT TYPE	NAME	VALUE
1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	importance	high

2. Click the plus sign (+) next to **Custom Fields**.

Kaui displays the Add New Custom Field screen:

Add New Custom Field

Object ID	<input type="text"/>
Object type	ACCOUNT
Name	<input type="text"/>
Value	<input type="text"/>
SAVE	

3. Fill in the fields. For field descriptions, see "[Custom Field Descriptions](#)."
4. Click the **Save** button. Kaui displays the new custom field on the Custom Fields page.

Custom Fields +			
Show	50	entries	Search:
OBJECT ID	OBJECT TYPE	NAME	VALUE
379795d6-507a-4000-83ed-6960021a8df1	ACCOUNT	Importance	very high
1033706a-07de-4ed3-b0e0-0f1d09639b90	ACCOUNT	Importance	high

Showing 1 to 2 of 2 entries

First Previous **1** Next Last

Custom Field Descriptions

Field	Description
Object ID	<p>The identifier of the object to which you want to attach a custom field.</p> <p>Note: To copy the identifier for the object, open a separate browser tab and copy the ID from the URL displayed on your browser's address line:</p> <p><i>Example:</i></p> <p>URL: https://demo.killbill.io/accounts/1033706a-07de-4ed3-b0e0-0f1d09639b90/invoices/421d16de-6d19-41a0-b9e5-781ab3eedf1c</p> <p>Invoice ID: 421d16de-6d19-41a0-b9e5-781ab3eedf1c</p>
Object type	The type of object that the custom field is being attached to, such as an account or payment.
Name	The name of the custom field (<i>Example:</i> Level).
Value	The value associated with this custom field (<i>Example:</i> Medium).

Plugin Manager

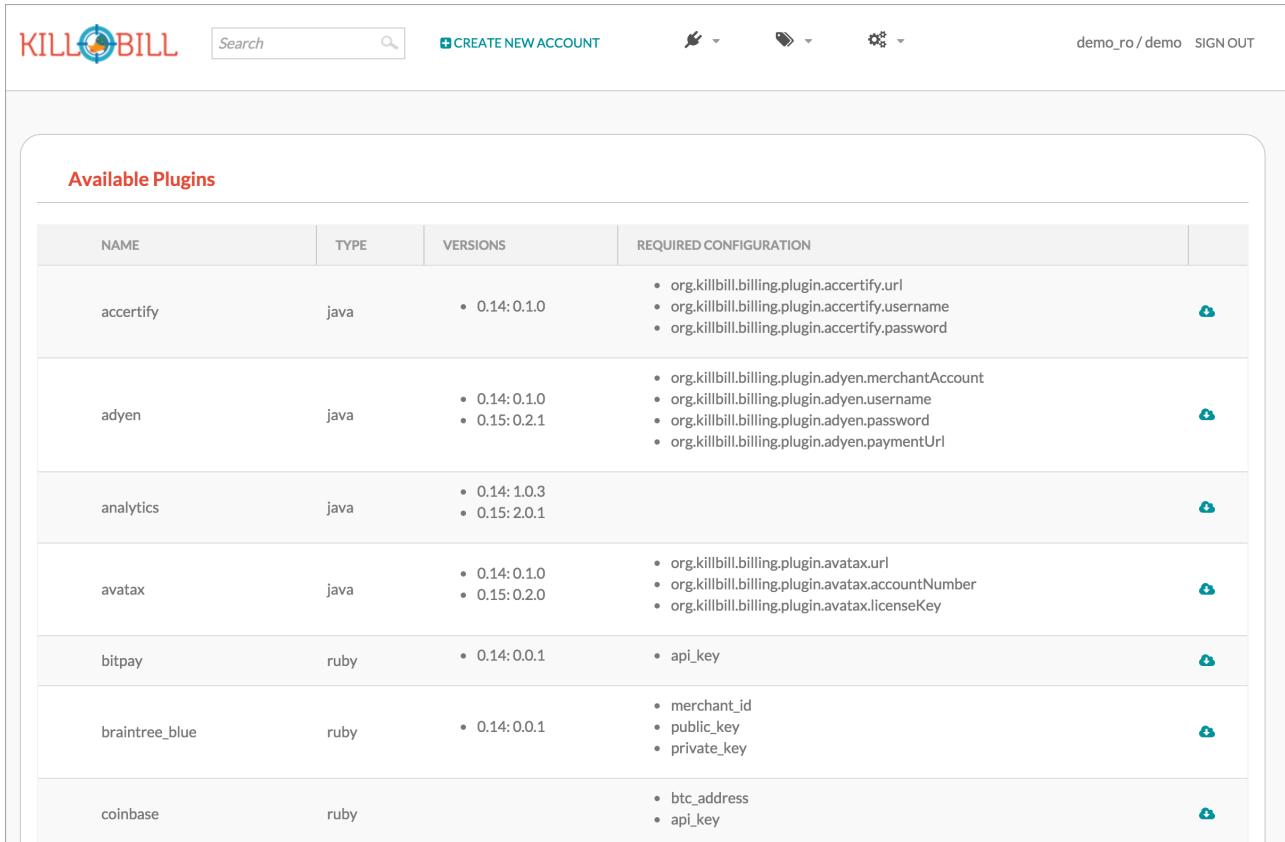
The KPM page is only available when the KPM plugin has been deployed.

It lets you install and uninstall plugins, as well as start, stop, and restart them at runtime:

Install a Plugin

In order to deploy a plugin via Kaui, you need to do the following:

1. Click on the plugin icon at the top and select **kpm**.



The screenshot shows the Kill Bill KPM interface. At the top, there is a navigation bar with the Kill Bill logo, a search bar, a 'CREATE NEW ACCOUNT' button, and user session information ('demo_ro / demo' and 'SIGN OUT'). Below the navigation bar is a section titled 'Available Plugins'. This section contains a table with the following data:

NAME	TYPE	VERSIONS	REQUIRED CONFIGURATION
accertify	java	• 0.14: 0.1.0	<ul style="list-style-type: none">org.killbill.billing.plugin.accertify.urlorg.killbill.billing.plugin.accertify.usernameorg.killbill.billing.plugin.accertify.password
adyen	java	• 0.14: 0.1.0 • 0.15: 0.2.1	<ul style="list-style-type: none">org.killbill.billing.plugin.adyen.merchantAccountorg.killbill.billing.plugin.adyen.usernameorg.killbill.billing.plugin.adyen.passwordorg.killbill.billing.plugin.adyen.paymentUrl
analytics	java	• 0.14: 1.0.3 • 0.15: 2.0.1	
avatax	java	• 0.14: 0.1.0 • 0.15: 0.2.0	<ul style="list-style-type: none">org.killbill.billing.plugin.avatax.urlorg.killbill.billing.plugin.avatax.accountNumberorg.killbill.billing.plugin.avatax.licenseKey
bitpay	ruby	• 0.14: 0.0.1	<ul style="list-style-type: none">api_key
braintree_blue	ruby	• 0.14: 0.0.1	<ul style="list-style-type: none">merchant_idpublic_keyprivate_key
coinbase	ruby		<ul style="list-style-type: none">btc_addressapi_key

2. Click on **Install New Plugin**.
3. Click on the download icon next to the plugin that you wish to install.
4. Wait a few minutes, then refresh the web page.

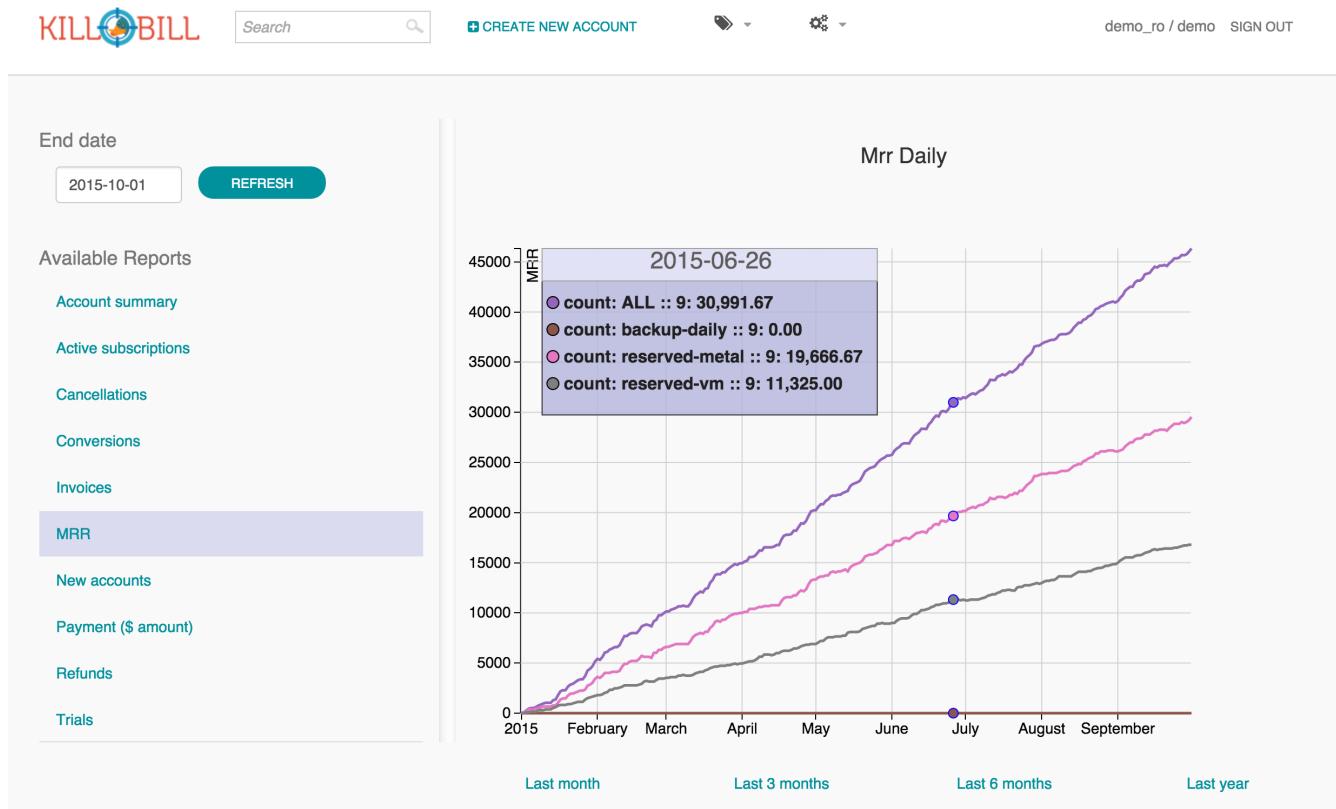
Once the plugin download is complete, it will appear in Stopped status. To start the plugin, click on the **Start** button.

Analytics

The Analytics page is only available when the analytics plugin has been deployed.

It lets you display custom metrics with filtering capabilities. We provide a few by default, but the analytics framework lets you add any desired metric.

Here we show the MRR by plan over time:



For more information, see the [Analytics Guide](#).