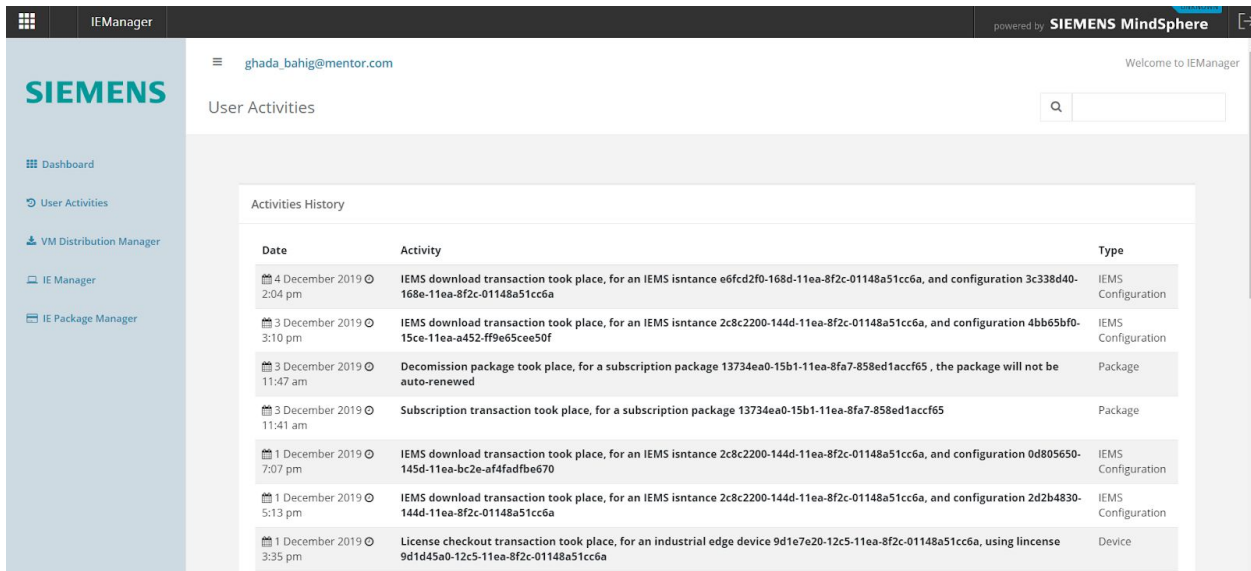


# Testing stories and scenarios

## User activities

User activities accessed through shortcut in the Dashboard or from Menu “User Activities” item.



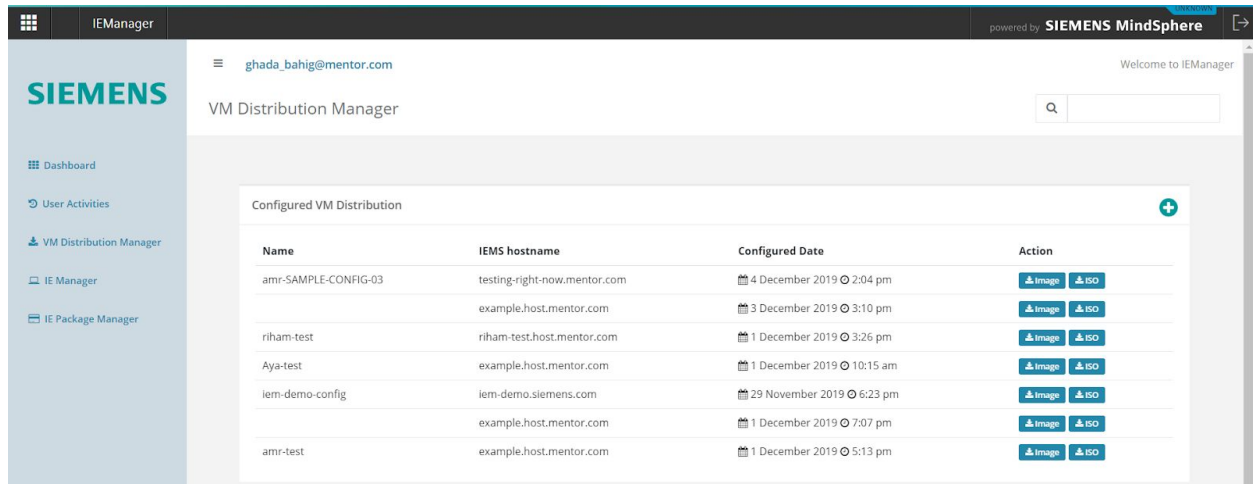
The screenshot shows the Siemens IEManager interface. The top navigation bar includes the Siemens logo, the user email 'ghada\_bahig@mentor.com', and the text 'powered by SIEMENS MindSphere'. The left sidebar contains a menu with 'Dashboard', 'User Activities' (highlighted), 'VM Distribution Manager', 'IE Manager', and 'IE Package Manager'. The main content area is titled 'User Activities' and features a search bar and a table labeled 'Activities History'.

Date	Activity	Type
4 December 2019 2:04 pm	IEMS download transaction took place, for an IEMS instance e6fcd2f0-168d-11ea-8f2c-01148a51cc6a, and configuration 3c338d40-168e-11ea-8f2c-01148a51cc6a	IEMS Configuration
3 December 2019 3:10 pm	IEMS download transaction took place, for an IEMS instance 2c8c2200-144d-11ea-8f2c-01148a51cc6a, and configuration 4bb65bf0-15ce-11ea-a452-ff9e65cee50f	IEMS Configuration
3 December 2019 11:47 am	Decommission package took place, for a subscription package 13734ea0-15b1-11ea-8fa7-858ed1accf65, the package will not be auto-renewed	Package
3 December 2019 11:41 am	Subscription transaction took place, for a subscription package 13734ea0-15b1-11ea-8fa7-858ed1accf65	Package
1 December 2019 7:07 pm	IEMS download transaction took place, for an IEMS instance 2c8c2200-144d-11ea-8f2c-01148a51cc6a, and configuration 0d805650-145d-11ea-bc2e-af4fadf6e670	IEMS Configuration
1 December 2019 5:13 pm	IEMS download transaction took place, for an IEMS instance 2c8c2200-144d-11ea-8f2c-01148a51cc6a, and configuration 2d2b4830-144d-11ea-8f2c-01148a51cc6a	IEMS Configuration
1 December 2019 3:35 pm	License checkout transaction took place, for an industrial edge device 9d1e7e20-12c5-11ea-8f2c-01148a51cc6a, using lincense 9d1d45a0-12c5-11ea-8f2c-01148a51cc6a	Device

## Check latest activities

- This page provide all user activities and transactions types by calling the api **“/api/v1/activities”**.

## VM distribution manager



Configured VM Distribution

Name	IEMS hostname	Configured Date	Action
amr-SAMPLE-CONFIG-03	testing-right-now.mentor.com	4 December 2019 2:04 pm	Image ISO
	example.host.mentor.com	3 December 2019 3:10 pm	Image ISO
riham-test	riham-test.host.mentor.com	1 December 2019 3:26 pm	Image ISO
Aya-test	example.host.mentor.com	1 December 2019 10:15 am	Image ISO
iem-demo-config	iem-demo.siemens.com	29 November 2019 6:23 pm	Image ISO
	example.host.mentor.com	1 December 2019 7:07 pm	Image ISO
amr-test	example.host.mentor.com	1 December 2019 5:13 pm	Image ISO

## Get all Configured VM Distribution

- Call Get all user configuration **`"/api/v1/configurations"`**
- Download image button use the **`"/api/v1/firmwares/{iemsId}/uri"`**
- Iso download button use **`"/api/v1/configurations/{physicalResourceName}/uri"`**

## Configure a new iems instance

By clicking on the plus button in the above image:

The screenshot shows the SIEMENS IEManager web interface. The top navigation bar includes the SIEMENS logo, the text 'IEManager', and 'powered by SIEMENS MindSphere'. The user is logged in as 'ghada\_bahig@mentor.com'. The main header shows 'VM Distribution Manager' and a search bar. The left sidebar contains a menu with 'Dashboard', 'User Activities', 'VM Distribution Manager' (selected), 'IE Manager', and 'IE Package Manager'. The main content area displays the 'VM Image Configuration' form, which includes sections for 'VM Image Configuration' and 'ISO Configuration'. The 'VM Image Configuration' section has a 'Name' text field and a 'Select VM Image' dropdown menu. The 'ISO Configuration' section has a 'Hostname' text field (containing 'example.host.mentor.com'), a 'Keyboard Input' dropdown menu (set to 'EN'), and a 'DNS connection' section at the bottom.

- First, will call Get all firmwares **"/api/v1/firmwares"** to fill the select VM image dropdown list
- Then, after filling the required configurations, when save button is clicked
  - Will call API **"/iemanager/api/v1/iems-download/"**
  - Then will call configure api **"/api/v1/iems/:iemsId/configurations"**
- Make sure that
  - Configuration record successfully created in "iems\_config" table
  - Configuration refers to it's iems instance that created in "iems" table
  - Configuration metadata is correct
  - Iso disk resource is generated and it's link is returned
  - Iems resource is created and it's download link is available

## IEManager

The screenshot shows the IEManager web application. The sidebar on the left contains the following navigation items: FA User, Dashboard, User Activities, VM Distribution Manager, IE Manager, and IE Package Manager. The main content area is titled "IE Manager" and shows a list of IEMS instances. The selected IEMS instance is "www.test-iemanager.com". The detailed view for this instance shows a table of devices.

Device Name	Used Package	IEMS hostname	Onboarding Date
122-Model-123	Onboarded using license LCS-123	www.test-iemanager.com	Sep 29, 2019 04:10am
Device-4567	Onboarded using license LCS-456	www.test-iemanager.com	Sep 28, 2019 04:10am
Device-1992	Onboarded using license LCS-123	www.test-iemanager.com	Sep 27, 2019 04:10am
Dev-Model-12	Onboarded using license LCS-456	www.test-iemanager.com	Sep 26, 2019 04:10am
Model-Dev-453	Onboarded using license LCS-123	www.test-iemanager.com	Sep 25, 2019 04:10am
122-Model-125	Onboarded using license LCS-456	www.test-iemanager.com	Sep 24, 2019 04:10am

## Get user iems instances

- Call get all iems per user
  - **"/api/v1/iems"**
- Call get user devices per iems id
  - **"api/v1/iems/{iemsId}/devices"**
  - Make sure the returned devices from the api matches the ie\_device records in db for this user and this iems\_id and the device status is right.

## IE Package Manager

Go to IE Package Manager to purchase or decommission packages

- Billing history table call **`"/api/v1/user-subscription-packages"`**

IE Package Manager

SIEMENS

Dashboard  
User Activities  
VM Distribution Manager  
IE Manager  
IE Package Manager

Golden Package € 350  
10 Devices  
365 Days  
Subscribe Now

Silver Package € 250  
5 Devices  
365 Days  
Subscribe Now

Billing History

#	Purchase Date	Package	Auto Renewal	Consumption	Remaining	Expiry Date	Action
1	3 December 2019 11:41 am	Golden Package	✗	10	0	2 December 2020 11:41 am	Already decommissioned
2	1 December 2019 3:22 pm	Silver Package	✓	0	5	30 November 2020 3:22 pm	Decommission
3	29 November 2019 6:28 pm	Golden Package	✗	4	6	28 November 2020 6:28 pm	Already decommissioned

### purchase package

- You need to subscribe package to check-in and checkout ie device licenses.
- When click on subscribe now to fire a purchase package and call.  
**`"/api/v1/purchasing-packages"`**
- Make sure that
  - New record add in "user\_subscription\_package" table.
  - Add new PACKAGE\_SUBSCRIPTION transaction in "user\_subscription\_transaction" table
- Now Can checkin and checkout device licenses.

## Check-out Device License

This part can test through swagger

- **POST `"/api/v1/iems/{iemsId}/devices/checkout"`**
  - {iemsId} the target iems id
  - Body should contains
    - serialNo
    - Name
- Make sure that
  - Create a new record in "license" table contains the subscribed user package id.
  - Consume 1 device from subscribed user package which will expire first
  - Add new on boarding transaction in "ie\_device\_transaction" table.

## Check-in Device License

This part can test through swagger

- **POST `"/api/v1/iems/{iemsId}/devices/check-in"`**
  - {iemsId} the target iems id
  - Body should contains
    - serialNo
- Make sure that
  - Update record in "license" table and set status to be "inactive"
  - No changes in user subscribed package remaining\_count.
  - Add new off boarding transaction in "ie\_device\_transaction" table.

## Decommission subscribed package

- Before clicking on Decommission button call **`"/api/v1/subscription-packages/:packageId/decommission"`** must check in all devices consumed this package license.
- Decommission package changes the column "auto\_renewal\_flg" to be 0.