

How to use Managed entitlements for AWS Marketplace

What is Managed entitlements for AWS Marketplace?

Managed entitlements for AWS Marketplace help buyers automatically create licenses corresponding to product subscriptions across its catalog of more than 8,000 offerings. This gives buyers account-level visibility to their licenses procured in AWS Marketplace and gives buyers the ability to manage and distribute access rights (or entitlements) to those licenses.

Managed entitlements is available for all AWS Marketplace customers with new or existing subscriptions to:

- Amazon Machine Images
- Containers
- Machine Learning Algorithms and Models
- Data Exchange

How does this benefit the customer?

Governance: Managed entitlements for AWS Marketplace helps customers centralized license governance and management to a single account in their AWS Organization.

Scale: Customers can use APIs to automate entitlement distribution across multiple accounts. This automation mitigates the manual subscription step that each end user account would have needed to take in order to get access to the software.

Integration/Interoperability with other AWS tools: Customers can use managed entitlements APIs alongside AWS Service Catalog and AWS Control Tower. They can fully automate account creation, entitlement distribution, and software provisioning.

Where can I manage my AWS MP license entitlements?

You can manage your AWS MP license entitlements in the Granted Licenses section of the AWS License Manager console or via APIs.

Terminology

License: A license is a representation of the customer's subscription and entitlement to a MP product. AWS Marketplace will automatically create a license on behalf of the customer when the customer subscribes to a AMI, Containers, Machine learning, or Data Exchange product.

Entitlement: An entitlement represents the 'right to use' a product. For AWS Marketplace products, this is evaluated at the AWS Account level. The account that subscribes to a MP product will automatically be entitled to that product and can use it immediately. This same account can then choose to grant (share access) entitlement to other accounts in their AWS Organization.

Grant: This is an action invoked on a licenses to share access to other accounts and grant other accounts the ability to use the license. AWS MP customer subscribers can choose to grant license entitlements to other members of their AWS Organization.

Granted License: Granted licenses are shown in the AWS License Manager console. For MP subscribed products these licenses can take one of two forms.

- Subscribed license - A granted license that results directly from a MP product subscription. This license can be subsequently granted to other accounts in the AWS Organization.
- Entitled license - A granted license that results from a 'Create grant' action that an administrator takes to enable an end user to receive access to a MP product.

License Home Region: All license resources are created and managed with us-east-1 (N. Virginia) as their home region.

User Definitions and Management

Grantor or Administrator: This is the user who creates the agreement via subscription to the MP product. This user receives a license from that subscription and can subsequently grant entitlements to that license to other members of their AWS Organization.

- Customers using All Feature Orgs - We highly recommend that you subscribe to MP licenses through your management account. Doing so will allow you to take advantage of additional governance mechanisms including being able to 'Auto-accept' granted entitlements in linked accounts and being able to distribute to your AWS Organization ID.

Grantee or End User: These are accounts who receive the entitlements granted from the Grantor/Administrator. Once granted, licenses can be accepted and activated by end users without them having to explicitly subscribe through MP again.

Pre-requisite Permissions and explanations

Customers who want to use the managed entitlements feature will need a combination of permissions including enabling service trusted access and service linked roles:

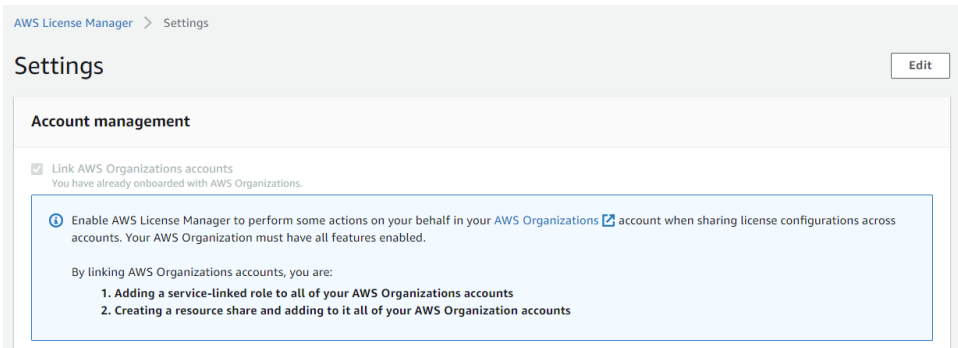
- **Trusted Access:** Only available for AWS Organizations with 'all-features' enabled. AWS services for which you enable trusted access can access your organization information and perform actions in multiple AWS accounts within your organization. Specific to managed entitlements, this gives AWS LM and MP the ability to keep track of AWS Organizations activity on your behalf (e.g. knowing when accounts leave your organization, validating granted licenses to accounts within an organization)
- **Service-Linked Roles:** A service-linked role is a unique type of IAM role that is linked directly to an AWS service. Service-linked roles are predefined by the service and include all the permissions that the service requires to call other AWS services on a customer's behalf. For managed entitlements, this permission is required so that AWS MP can successfully orchestrate license workflows and distributions across multiple AWS services, on the customer's behalf. Similarly, this permission is required for AWS LM to auto-accept grants between management and member accounts in a 'all features' enabled organization.

Pre-requisite Permissions

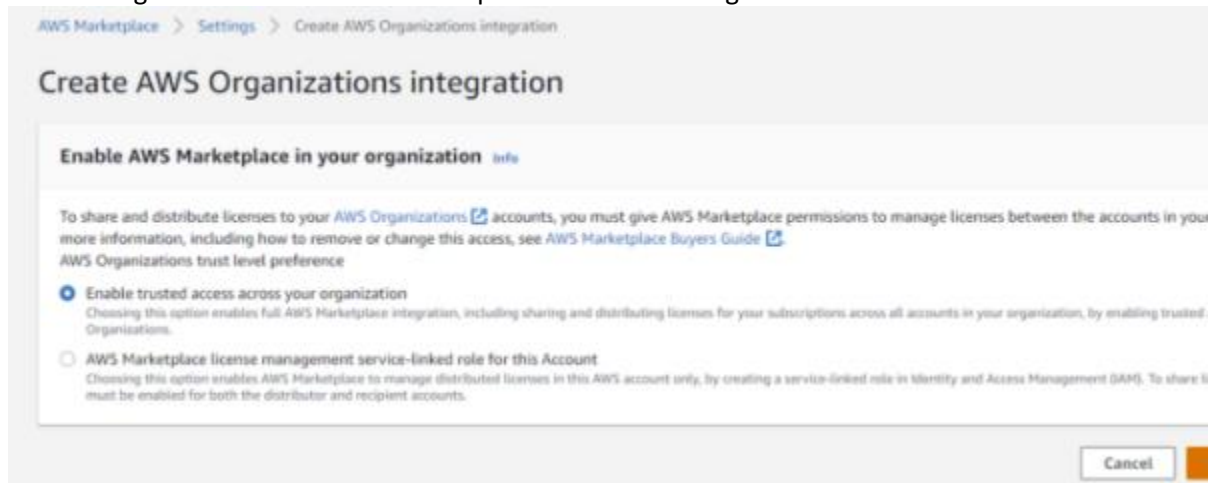
Customers who want to use managed entitlements for AWS Marketplace will first need to set up the following permissions:

AWS Console specific instructions

- In an AWS Organization with 'all features' enabled, you will need to create Service Linked Roles (SLR) for AWS License Manager and AWS Marketplace
 - AWS License Manager Console
 - SLR for License Manager will show up as a pop up modal the very first time you enter the LM console. You will not be able to use the AWS License Manager service without first enabling the AWS License Manager SLR.
 - Cross-account SLR for License Manager can be found in the [settings](#) page. Using the us-east-1 (N. Virginia) AWS region, select the 'Link AWS Organization accounts' to take advantage of the grant auto-accept feature.
 - This gesture via console also creates a trusted access relationship between AWS Organizations and AWS License Manager



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- AWS Marketplace Console
 - SLR for Marketplace will be available to configure in the [Settings page of AWS Marketplace](#). Select 'Enable trusted access across your organization'
 - This gesture via console also creates a trusted access relationship between AWS Organizations and AWS Marketplace - License Management



- - Note: As a management account in an all features enabled organization, you can select the 'enable trusted access across your organization' option. This ensures that SLRs will be created for your organization's linked accounts as well. Selecting just the SLR for the individual account will mean that you will need to similarly enable SLR on each linked account you wish to distribute licenses.
- In a consolidated billing organization (if all-features are not enabled), you will need to create Service Linked Roles (SLR) for AWS License Manager and AWS Marketplace
 - AWS License Manager Console
 - SLR for License Manager will show up as a pop up modal the very first time you enter the LM console. You will not be able to use the AWS License Manager service without first enabling the AWS License Manager SLR.
 - AWS Marketplace Console
 - You will need to enable the service linked role for AWS Marketplace - License Management across every account that you plan to grant or receive licenses through managed entitlements.

Create AWS Organizations integration

Enable AWS Marketplace in your organization [Info](#)

To share and distribute licenses to your [AWS Organizations](#) accounts, you must give AWS Marketplace permissions to manage licenses between the accounts in your organization. For more information, including how to remove or change this access, see [AWS Marketplace Buyers Guide](#).

AWS Organizations trust level preferences

- AWS Marketplace license management service-linked role for this Account**
Choosing this option enables AWS Marketplace to manage distributed licenses in this AWS account only, by creating a service-linked role in Identity and Access Management (IAM). To share licenses, this option must be enabled for both the distributor and recipient accounts.

Cancel

Create integration

API Specific instructions:

- In an AWS Organization with 'all features' enabled, you will need to use your management account to enable trusted access for your organization.
 - API: [EnableAWSServiceAccess](#)
 - AWS Marketplace - License Management
 - AWS License Manager
 - Then create SLRs for AWS Marketplace and AWS License Manager
 - API: [CreateServiceLinkedRole](#)
 - AWS License Manager
 - [AWSServiceRoleForAWSLicenseManagerRole](#) (needed in all accounts)
 - [AWSServiceRoleForAWSLicenseManagerMasterAccountRole](#) (needed only in management account)
 - [AWSLicenseManagerMemberAccountRolePolicy](#) (needed in all accounts)
 - AWS Marketplace
 - [AWSServiceRoleForMarketplaceLicenseManagement](#)
- In a consolidated billing organization, you will need to create Service Linked Roles (SLR) for AWS License Manager and AWS Marketplace across all accounts where you want to manage entitlements.
 - API: [CreateServiceLinkedRole](#)
 - AWS License Manager
 - [AWSServiceRoleForAWSLicenseManagerRole](#)
 - AWS Marketplace
 - [AWSServiceRoleForMarketplaceLicenseManagement](#)

Actions that a managed entitlements Grantor or license Administrator can perform

As a grantor or administrator you can share your MP AMI, Containers, Machine learning, or Data Exchange product to end user AWS Accounts or your AWS Organization ID

Creating Grants to an AWS Account:

Step 1: Select the product license that you wish to grant

- As a Grantor or Administrator, once you've subscribed to a MP product, a license will automatically be created and granted to you.
- You can access this license through AWS License Manager → Granted Licenses

Granted licenses (21)

License ID	Product name	Issuer	Seller of record	Status	Grant status	License start date	License end date
I-796538e8943848888f1a02b65aa4c2	NGINX Open Source Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 21, 2020	-
I-0F404acd10ca4e4db481800b106abb8	Redmine Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 19, 2020	-
I-0f06cc18d5c41ae93be7145e151bd1f	Odoo Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	December 1, 2020	-
I-2a3e6588290498b814b67f048cf62	LAMP Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 17, 2020	-
I-5e86a5827642a934847270eac6	Ghost Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 22, 2020	-
I-34f1415205f14c2ab45c4d018089913	Paste Server Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 20, 2020	-
I-4068a137a054d608851a80581d55270	Mautic Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 19, 2020	-
I-1739d884a49738784b4fe14c4b44	WordPress Certified by Bitnami and Automattic	AWS/Marketplace	Bitnami	Deleted	Deleted	November 4, 2020	-
I-b2940b35c484d92861ea8f1729f12ca	Jenkins Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 22, 2020	-
I-a462d8ec3a3e4ad780e8b36718ef185d	Tomcat Certified by Bitnami	AWS/Marketplace	Bitnami	Available	Active	November 21, 2020	-

- Or you can go from the AWS Marketplace Console → Manage Subscriptions → Product detail → License hyperlink

Tomcat Certified by Bitnami Amazon Machine Image

You can now share this subscription with others using AWS License Manager. Your purchase of this product created a license that you can manage in AWS License Manager. This may include viewing, granting access and tracking of your entitlements.

Pay as you go

Start any number of instances, of any type. You're charged for software and infrastructure usage based on the product's pricing model.

Summary

Product	Seller	Delivery method	Access level
Tomcat Certified by Bitnami	Bitnami	Amazon Machine Image	Agreement
License	Product ID		
I-a462d8ec3a3e4ad780e8b36718ef185d	OSe71f1e-8599-4fc7-ab8a-2fcfbcb81353		

Step 2: Create grant

- Once you click into the license details, you'll see a container labeled 'Grants'
- Click on the Create Grant button
- Populate the Grant details and the target account.

Create grant info

Grant details

License ID
I-a462d8ec3a3e4ad780e8b36718ef185d

Grant name
Grant names are metadata that can be searched.

AWS account ID
The AWS account ID to receive the grant.

License rights
This grant has only consumption rights and cannot grant access to other AWS IAM identities

Home Region
AWS Region for this license. You cannot change the Home Region after the license is created.
us-east-1

- Complete your grant distribution using the Create grant button

Grant Acceptance

- A granted license is a resource representation of the MP product subscription. Grant recipients will need to accept the license if they plan to use the license at present or in the future.

- Once a grant has been distributed to an end user account, it will show up in either Pending Acceptance or Disabled state
 - Customers using a standard billing family Org - granted licenses to an end user/recipient account will show up in a 'Pending Acceptance' state. The end user can click Accept & Activate, Accept, or Reject the License
 - Customers using All Feature Orgs - granted licenses from your management account to an end user/grantee account will automatically get accepted and show up in 'Disabled' state. The end user can Activate or Reject the license. **Note*** you must have first turned on the setting to link AWS Organizations accounts to enable the auto-acceptance functionality
- API: [AcceptGrant](#)

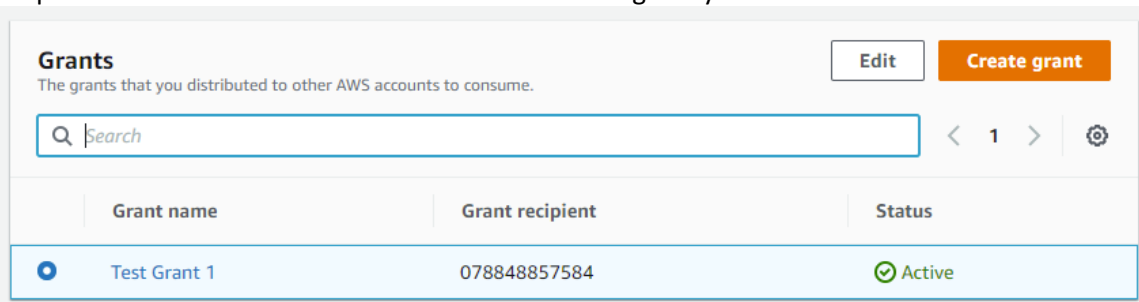
Grant Activation

- Grant activation is required for MP customers to use the license and/or spin up workloads and instances
- Once a grant has been accepted in the recipient account, it can be activated by either the Administrator or Grant recipient.
 - A Grant administrator may want to activate licenses on behalf of the recipient accounts so as to ensure end users can launch their products without the activation step
 - OR
 - A Grant recipient can choose when they want to activate it to start using the licensed product.
- API: [CreateGrantVersion](#) API set the Grant status to 'Active'

Editing Grant Name

As a grantor or administrator you may want to change or add detail to the grant name that you have already supplied.

Step 1: Find and click on the radio button next to the grant you wish to edit



Step 2: Change or edit the grant name field

Deactivating Grants:

Grant recipients can deactivate their own granted licenses if they no longer want to use the license.

A grantor or administrator can also decide to deactivate the grant on behalf of the grant recipient you have previously shared the license with.

Step 1: Find and click on the grant name of the grant you wish to deactivate

Grants
The grants that you distributed to other AWS accounts to consume.

Search < 1 > ⚙️

	Grant name	Grant recipient	Status
<input type="radio"/>	Test Grant 1	078848857584	Active

Step 2: Click the deactivate button and confirm your action by typing 'deactivate'

Odoo test Info Delete Deactivate Edit

Grant details Info

Distribution name	Grant ID
Odoo test	g-7637412cce7b440bb46e3ba1ed463c75
License rights	Grant Status
Consumption	Active
Recipient	
078848857584	

Entitlements
An entitlement is a right to use, access, or consume an application or resource.

Search < 1 > ⚙️

Name	Value	Max count	Usage	Units	Overages	Allow check in
AWS::Marketplace::Usage	Enabled	-	-	None	-	Not Allowed

Deactivating a grant will not impact any active instances that the end user is already running from the MP product.

Deleting Grants:

As a grantor or administrator you can decide to stop share your MP AMI, Containers, Machine learning, or Data Exchange product to end users by deleting the granted license that you previously distributed.

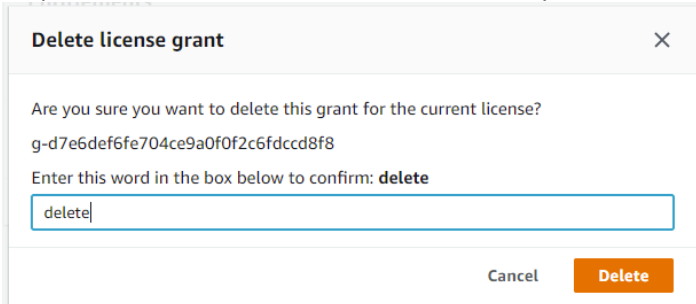
Step 1: Find and click on the grant name of the grant you wish to delete

Grants
The grants that you distributed to other AWS accounts to consume.

Search < 1 > ⚙️

	Grant name	Grant recipient	Status
<input type="radio"/>	Test Grant 1	078848857584	Active

Step 2: Select the Delete button and confirm your deletion by typing in the word 'delete'



Delete license grant [X]

Are you sure you want to delete this grant for the current license?
g-d7e6def6fe704ce9a0f0f2c6fdccd8f8

Enter this word in the box below to confirm: **delete**

Cancel **Delete**

Deleting a grant will not impact any active instances that the end user is already running from the MP product. Once the grant has been deleted, the end user will no longer be able activate new instances without the granted licenses to that MP product. A deleted grant is in a terminal state, so if you have deleted a grant in error, simply re create a new grant to the same account.

License States

- Available: Licenses show up in Available state when it is available for use as per the terms of the MP Agreement
- Deleted: Licenses show up in Deleted state when the MP Agreement has been cancelled or terminated and the customer no longer has access to that licensed product

Grant States

- Pending Acceptance: Grants show up in Pending Accept when the grant has been created and the grantee/end user has not yet accepted it
- Disabled: Grants show up in Disabled status when they have been accepted by the end user but not activated for immediate use
- Active: Grants show up in Active status when the end user has accepted and activated the grant successfully
- Rejected: Grants show up in Rejected status when the end user has rejected the license that was granted to them
 - Reject is a terminal state for that Grant
 - Grantor can always create a new grant for the end user on the same license
- Deleted: Grants show up in Deleted status when the grantor/administrator deletes it
 - Deleted is a terminal state for that Grant
 - Grantor can always create a new grant for the end user on the same license

Frequently Asked Questions

How does Managed entitlements work on for MP GovCloud Customers?

Today, MP GovCloud customers have a commercial AWS account that is linked to a GovCloud account. The MP customer uses the commercial AWS account to subscribe to MP products, and through the linked relationship the GovCloud account gets automatically entitled to that subscription.

Managed entitlements operates in the same way. Managed entitlements can be performed on the commercial AWS account organization hierarchy. When a grant is distributed from a commercial management account to a commercial linked account. The GovCloud account that is tied to the commercial linked account will automatically be entitled to the MP product license. Customers can subsequently use the GovCloud account to start running the licensed software.

Note: LM Console does not yet support managed entitlements in govcloud regions, so customers will see their granted licenses in the commercial account IAD region only

I have an active subscription with running instances in my linked account(s) - how do I migrate this account to a managed entitlement?

As a customer looking to transition from separate linked account subscriptions of the same product to a centrally managed subscription and granted licenses, you can easily transition your linked accounts to the centrally managed granted license.

Start with the management account of your AWS Organization, and make sure that the management account (grantor account) has subscribed to the product. Then, use AWS License Manager to grant licenses of that product to your linked accounts.

Now, the linked account will show 2 granted licenses for the same product, one as a result of their previous subscription, and the second as a result of the granted license. To migrate the linked account from their old subscription to the new granted license, simply unsubscribe from the subscription from the linked account. You can do this in the AWS Marketplace Console. Before you unsubscribe the linked account, you can choose either to keep the existing instances active, or to spin them down. Active instances will continue to be billed and charged even after the subscription is cancelled. Once the original linked account subscription is cancelled, activate the new granted license to complete the migration.

*Note that while active instances will continue to run, you will not be able to spin up any new instances until you have activated the linked account on the granted license.

Additional resources

- [RIV Session: MKT204 “Who gets what? Manage software licenses across AWS accounts”](#)
- [AWS Marketplace Feature Page](#)
- [AWS License Manager Feature Page](#)
- [What’s New](#)

Blogs

- [AWS News Blog/Jeff Barr Blog](#)
- [AWS Marketplace Blog](#)
- [Use managed entitlements across AWS Control Tower and AWS Service Catalog Blog](#)
- [Managed entitlements and Private Marketplace Blog](#)

Documentation

- [LM Granted licenses Documentation](#)
- [MP Organizational distribution Documentation](#)
- [LM API Documentation](#)
 - CreateGrant: Creates Grant
 - AcceptGrant: Accepts Grant
 - CreateGrantVersion: Update grant to Activate Grant
 - DeleteGrants: Delete Grant
 - ListDistributedGrant: Lists distributed grants
 - GetGrant: Gets Grant Details
 - ListReceivedGrants: Lists received grants
 - RejectGrant: Rejects Grant