


# Use PowerShell to manage subscriptions, plans, and offers in Azure Stack Hub

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You can use PowerShell to configure and deliver services by using offers, plans, and subscriptions. For instructions on getting set up with PowerShell on Azure Stack Hub, see [Install PowerShell Az module for Azure Stack Hub](#). For information on connecting to Azure Stack Hub using PowerShell, see [Connect to Azure Stack Hub with PowerShell](#).

Before you begin, verify the Azure Stack Hub PowerShell module is loaded. In a PowerShell console, type `Import-Module AzureStack`.

## Create a plan

Quotas are required when creating a plan. You can use an existing quotas or create new quotas. For example, to create a storage, compute and network quota, you can use the [New-AzsStorageQuota](#), [New-AzsComputeQuota](#), and [New-AzsNetworkQuota](#) cmdlets:

PowerShell

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```
$serviceQuotas = @()  
$serviceQuotas += (New-AzsStorageQuota -Name "Example storage quota with de-  
faults").Id  
$serviceQuotas += (New-AzsComputeQuota -Name "Example compute quota with de-  
faults").Id  
$serviceQuotas += (New-AzsNetworkQuota -Name "Example network quota with de-  
faults").Id
```

To create or update a base or add-on plan, use [New-AzsPlan](#).

PowerShell

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```
$testPlan = New-AzsPlan -Name "testplan" -ResourceGroupName "testrg" -QuotaIds  
$serviceQuotas -Description "Test plan"
```

## Create an offer

To create an offer, use [New-AzsOffer](#).

PowerShell

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```
New-AzsOffer -Name "testoffer" -ResourceGroupName "testrg" -BasePlanIds  
@($testPlan.Id)
```

Once you have an offer, you can add plans to the offer. Use [Add-AzsPlanToOffer](#). The **-PlanLinkType** parameter distinguishes the plan type.

PowerShell

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```
Add-AzsPlanToOffer -PlanName "addonplan" -PlanLinkType Addon -OfferName  
"testoffer" -ResourceGroupName "testrg" -MaxAcquisitionCount 18
```

If you want to change the state of an offer, use the [Set-AzsOffer](#) cmdlet.

PowerShell

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```
$offer = Get-AzsAdminManagedOffer -Name "testoffer" -ResourceGroupName "testrg"  
$offer.state = "Public"  
$offer | Set-AzsOffer -Confirm:$false
```

## Create subscription to an offer

After you create an offer, users need a subscription to that offer before they can use it.

There are two ways that users can subscribe to an offer:

- As a cloud operator, you can create a subscription for a user. Subscriptions you create can be for both public and private offers.
- As a user, you can subscribe to a public offer.

To create a subscription for a user as a cloud operator, use [New-AzsUserSubscription](#).

PowerShell

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```
New-AzsUserSubscription -Owner "user@contoso.com" -DisplayName "User subscrip-  
tion" -OfferId "/subscriptions/<Subscription  
ID>/resourceGroups/testrg/providers/Microsoft.Subscriptions.Admin/offers/testof  
fer"
```

To subscribe to a public offer as a user, use [New-AzsSubscription](#). *New-AzsSubscription* requires connection to the user Azure Resource Manager environment. Use the steps in [Connect to Azure Stack Hub with PowerShell](#) but use the user Azure Resource Manager endpoint. For example, `Add-AzEnvironment -Name "AzureStackUser" -ArmEndpoint "https://management.local.azurestack.external".`

PowerShell

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```
$testOffer = Get-AzsOffer | Where-Object Name -eq "testoffer"  
New-AzsSubscription -OfferId "User subscription" -OfferId $testOffer.Id -  
DisplayName "My subscription"
```

## Delete quotas, plans, offers, and subscriptions

There are companion PowerShell cmdlets to delete Azure Stack Hub quotas, plans, offers, and subscriptions. The following show examples for each.

Use [Remove-AzsUserSubscription](#) to remove a subscription from an offer.

PowerShell

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```
Remove-AzsUserSubscription -TargetSubscriptionId "c90173b1-de7a-4b1d-8600-  
b8325ca1eab1e"
```

To remove a plan from an offer, use [Remove-AzsPlanFromOffer](#).

PowerShell

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```
Remove-AzsPlanFromOffer -PlanName "addonplan" -PlanLinkType Addon -OfferName  
"testoffer" -ResourceGroupName "testrg"  
Remove-AzsPlanFromOffer -PlanName "testplan" -PlanLinkType Base -OfferName  
"testoffer" -ResourceGroupName "testrg"
```

Use [Remove-AzsPlan](#) to remove a plan.

PowerShell

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```
Remove-AzsPlan -Name "testplan" -ResourceGroupName "testrg"
```

Use [Remove-AzsOffer](#) to remove an offer.

PowerShell

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```
Remove-AzsOffer -Name "testoffer" -ResourceGroupName "testrg"
```

To remove quotas, use [Remove-AzsStorageQuota](#), [Remove-AzsComputeQuota](#), [Remove-AzsNetworkQuota](#) .

PowerShell

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```
Remove-AzsStorageQuota -Name "Example storage quota with defaults"  
Remove-AzsComputeQuota -Name "Example compute quota with defaults"  
Remove-AzsNetworkQuota -Name "Example network quota with defaults"
```

## Next steps

- [Managing updates in Azure Stack Hub](#)