How to deploy SandBox as an application through Current Branch 1902

In this exercise, I will show you how to create and deploy application as a package for installing SandBox through Current Branch 1902. SandBox is a feature that is helpful for developers who want to test a new application, update, or any other activity before going live. It is also neat to have this feature enabled to use as and when needed because SandBox does not keep the machine details when created. As soon you exit SandBox the machine details are wiped.

What is Windows Sandbox?

Windows Sandbox is a new feature that allows you to run a virtualized environment from your Windows host computer.

You will be able for instance to execute a specific application on an isolated environment.

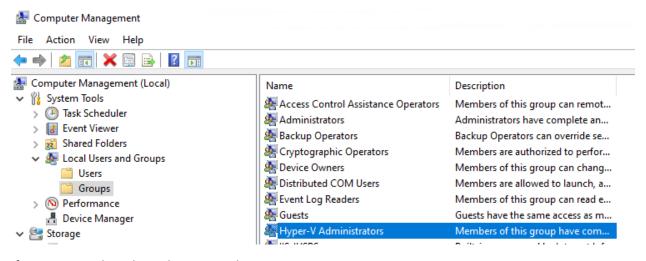
Windows Sandbox uses hardware virtualization to create this isolated environment.

You won't need to install a VM to use it.

Indeed, it will use OS from your host computer.

You will be able to run it from the Start menu or create a WSB shortcut to run a sandbox with a specific configuration.

First, we have to add standard user to Hyper-Administrators group on the workstation. So open Computer Management – Users and Groups – Add the user



If you want to do it through PS – use this one

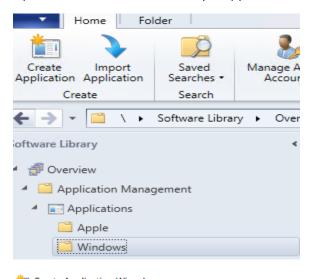
```
$script:my_user = (gwmi win32_computersystem).username
Add-LocalGroupMember -group "Hyper-V administrators" -member $my_user
```

You can use the script to do the following. The script is at the end of the post.

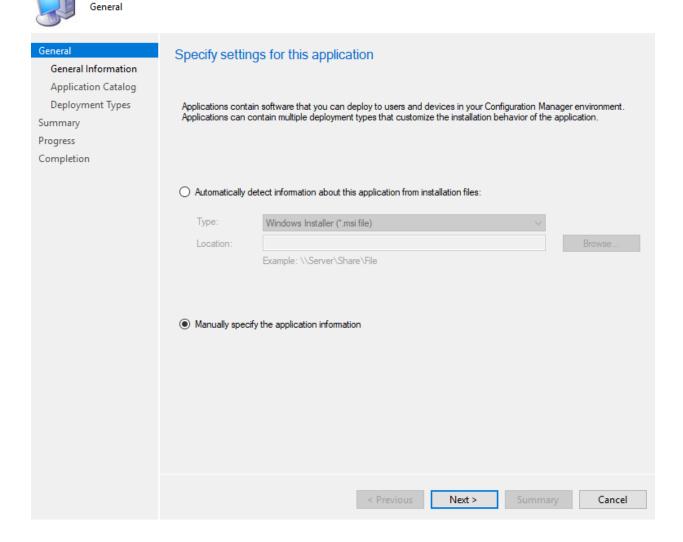
- Check if Windows Sandbox is already installed or not
- Enable the Sandbox feature is needed
- Add the current user in the Hyper-V admin group

Now we are ready to create an application for deploying SandBox

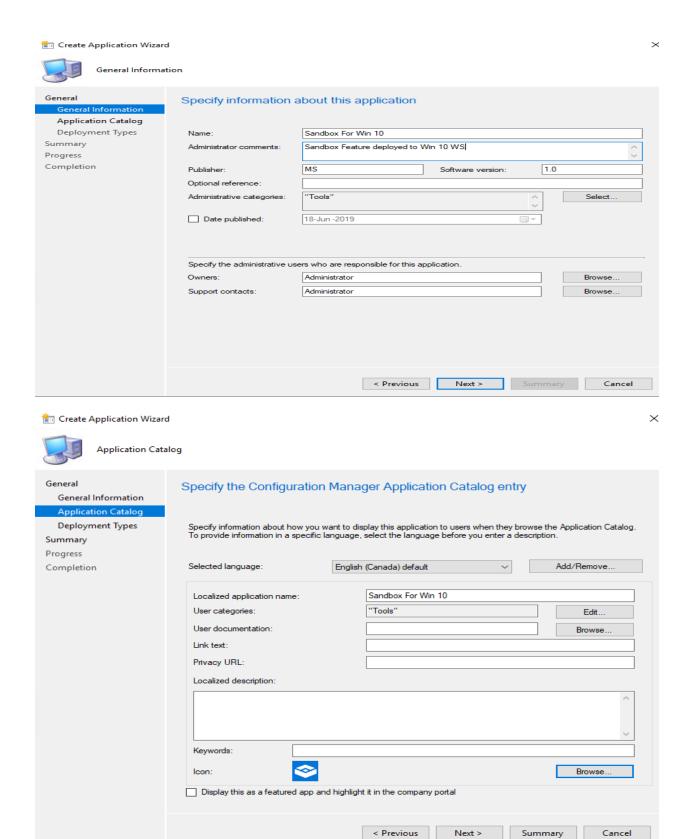
Open Console – Software Library – Applications – Create Application





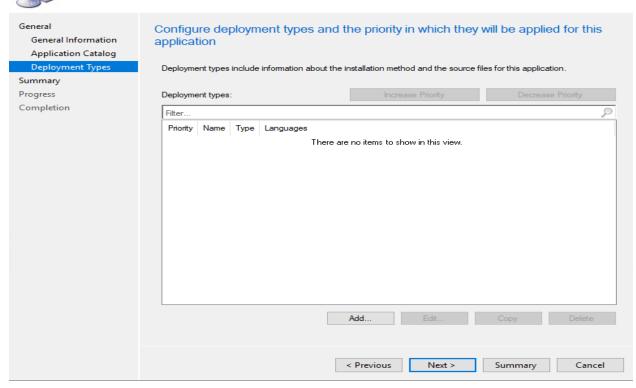


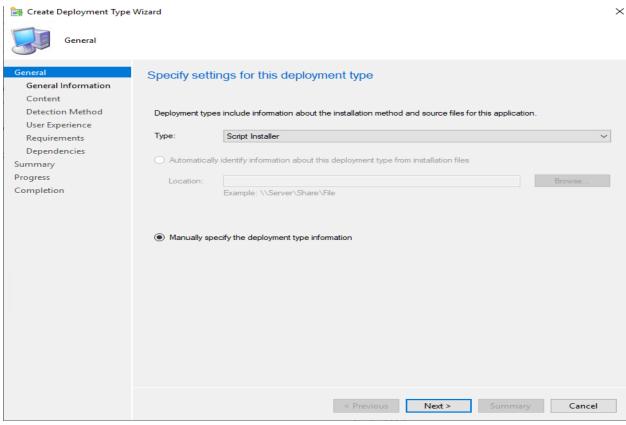
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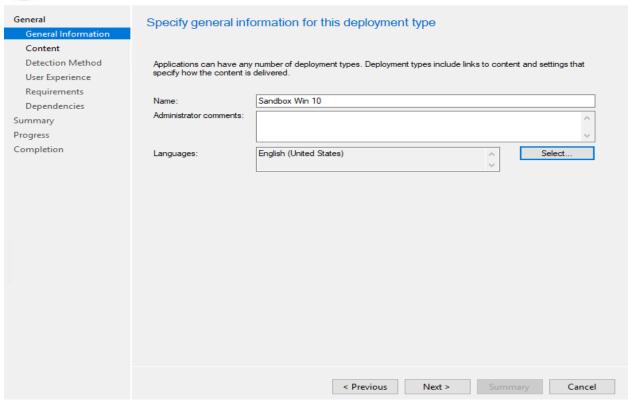






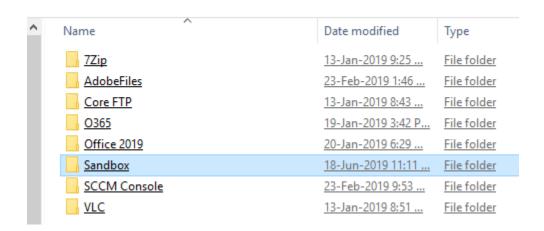






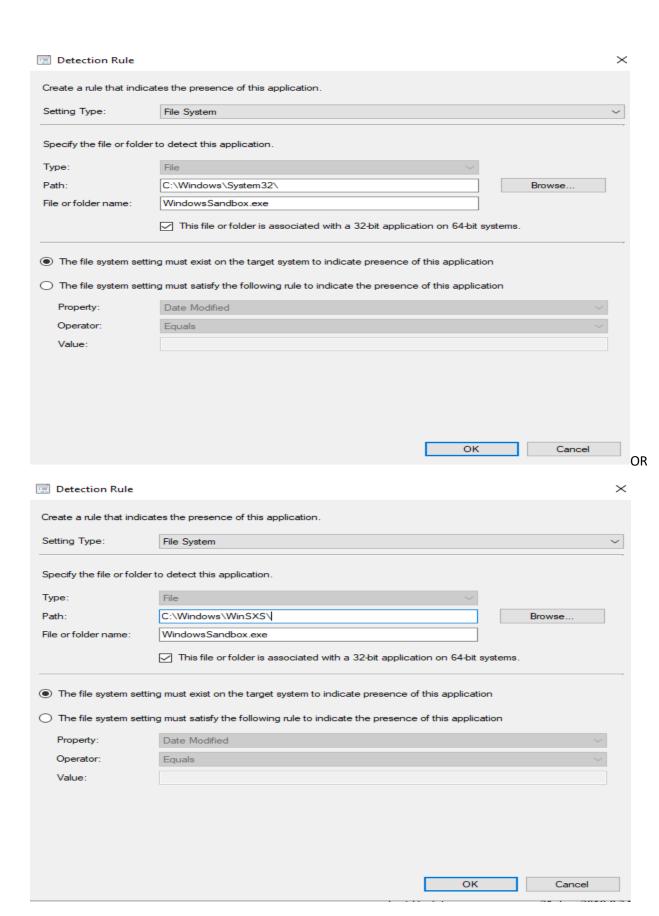
I saved the PS script in Sources folder.

CB > OS (C:) > Sources > Windows Application >



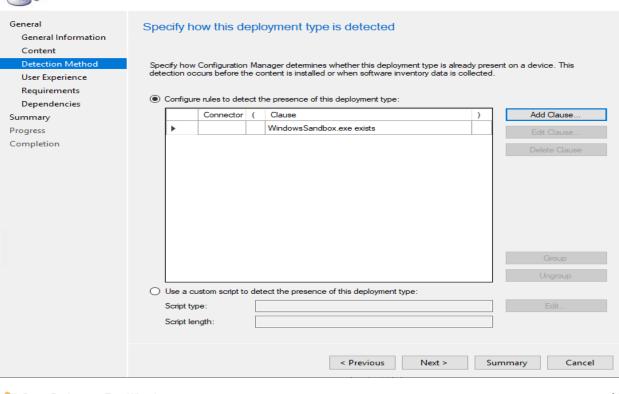


General General Information	Specify information about the	ne content to be delivered to target o	devices		
Content Detection Method User Experience	Specify the location of the deployment ty devices. All the contents in the path spe	ype's content and other settings that control how cont cified will be delivered.	ent is delivered to target		
Requirements	Content location:	\\cb\Sources\Windows Application\Sandbox	Browse		
Dependencies	Persist content in the client cache				
Summary					
Progress Completion	Specify the command used to install this content.				
completion					
	Installation program:	"Sandbox Feature.PS1"	Browse		
	Installation start in:				
	Configuration Manager can remove installations of this content if an uninstall program is specified below.				
	Uninstall program:		Browse		
	Uninstall start in:				
	Run installation and uninstall program as 32-bit process on 64-bit clients.				
		< Previous Next > Su	mmary Cancel		
Create Deployment Type	Wizard		×		
Detection Metho	od				
General General Information	Specify how this deployment type is detected				
Content Detection Method User Experience	Specify how Configuration Manager determines whether this deployment type is already present on a device. This detection occurs before the content is installed or when software inventory data is collected.				
Requirements Dependencies	ce of this deployment type:				
Summary	Connector (Clause)	Add Clause		
Progress			Edit Clause		
Completion			Delete Clause		
			Group		
			Ungroup		
	Use a custom script to detect the pro-	esence of this deployment type:			
	Script type:		Edit		
	Script length:				
		C Previous Next > Sun	Cancel		





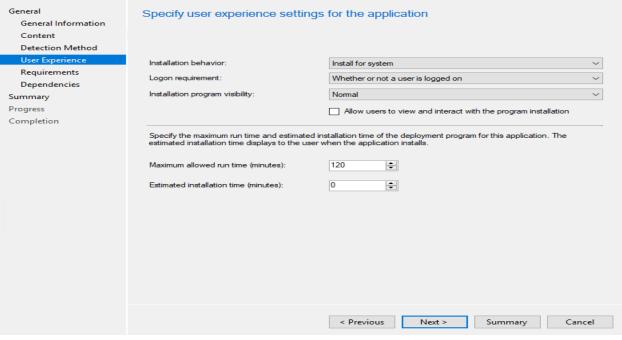
Detection Method



📷 Create Deployment Type Wizard

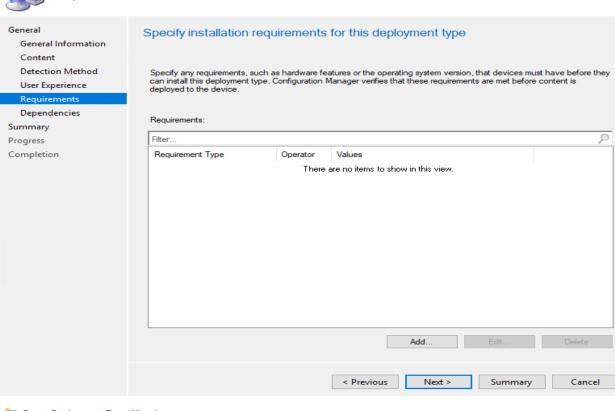


User Experience





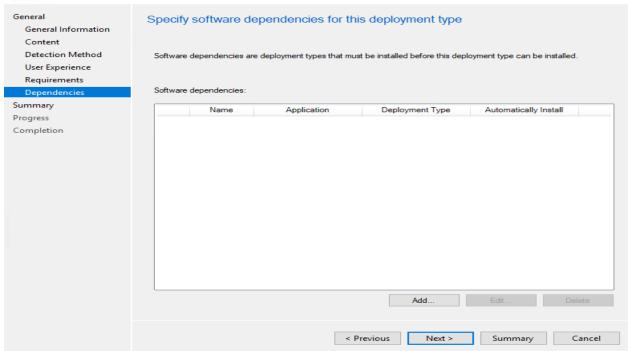
Requirements



🚞 Create Deployment Type Wizard



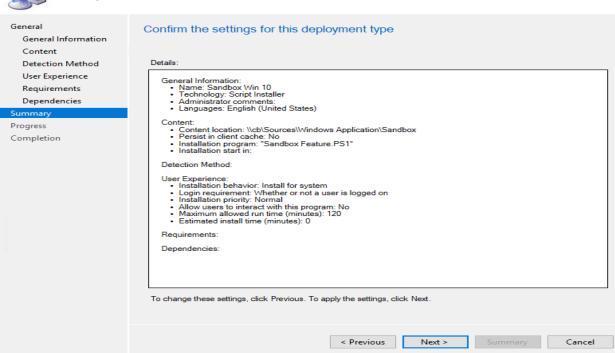
Dependencies



 \times



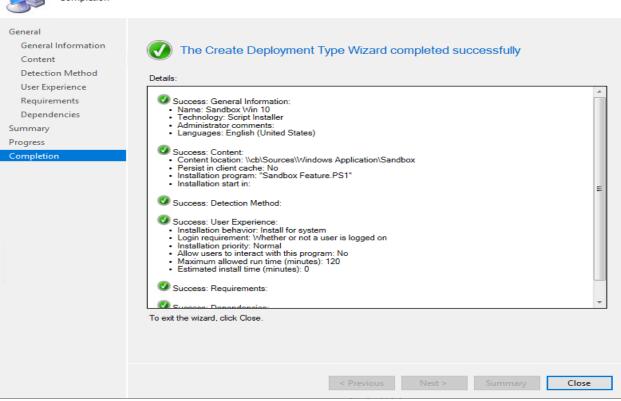
Summary





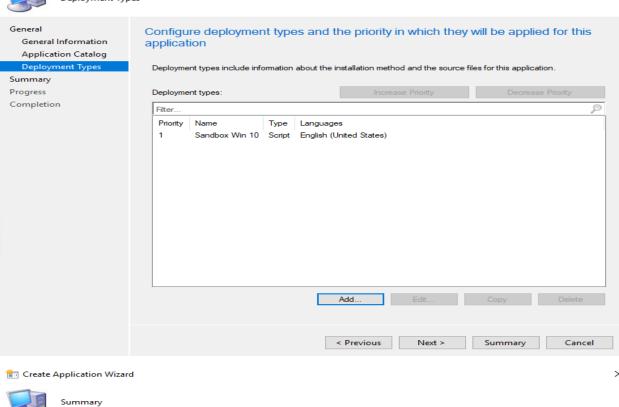


Completion



 \times 🛅 Create Application Wizard

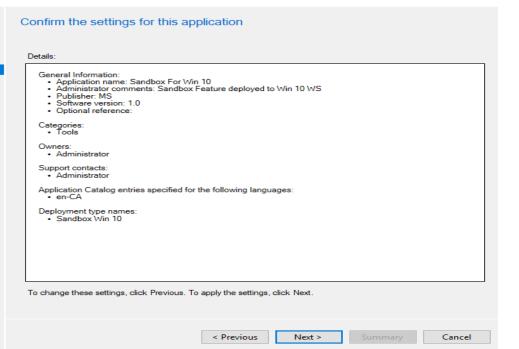


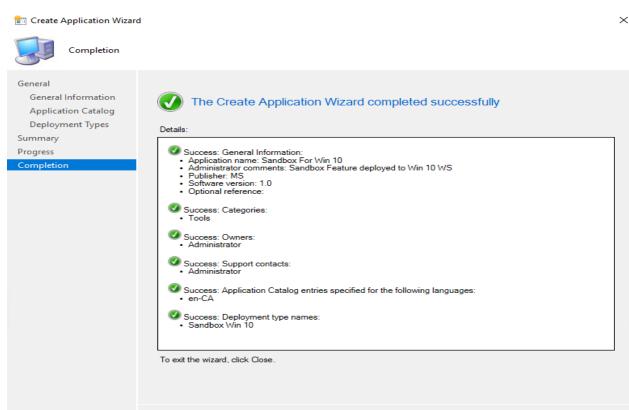




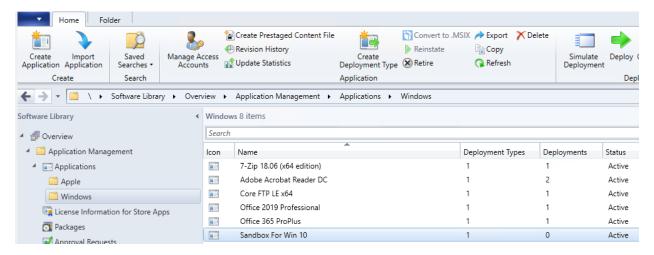
Progress

Completion





Now it is ready. Deploy to Win 10 collection. In the lab, I have a Win 10 collection.



→ Deploy Software Wizard



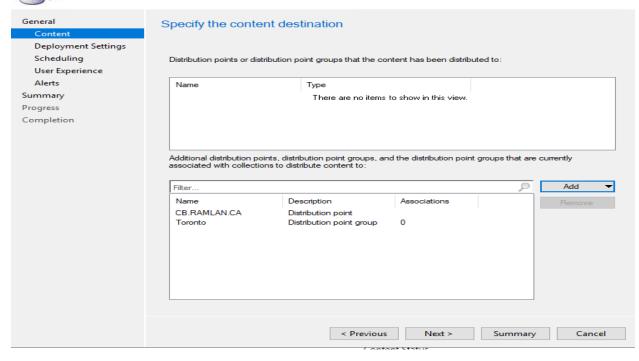
General

General Content	Specify general i	information for this deployment	
Deployment Settings Scheduling User Experience Alerts Summary Progress Completion		Sandbox For Win 10 Win 10 ution point groups associated to this collection ibute content for dependencies	Browse
	Comments (optional):		^
		< Previous Next > Summary	Cancel

Contont Status

→ Deploy Software Wizard



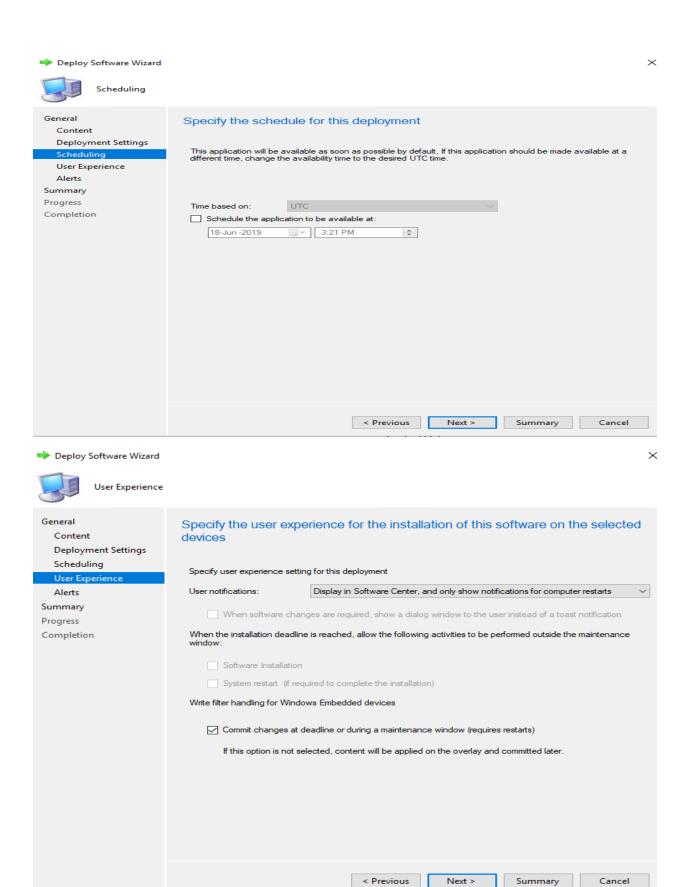


Deploy Software Wizard



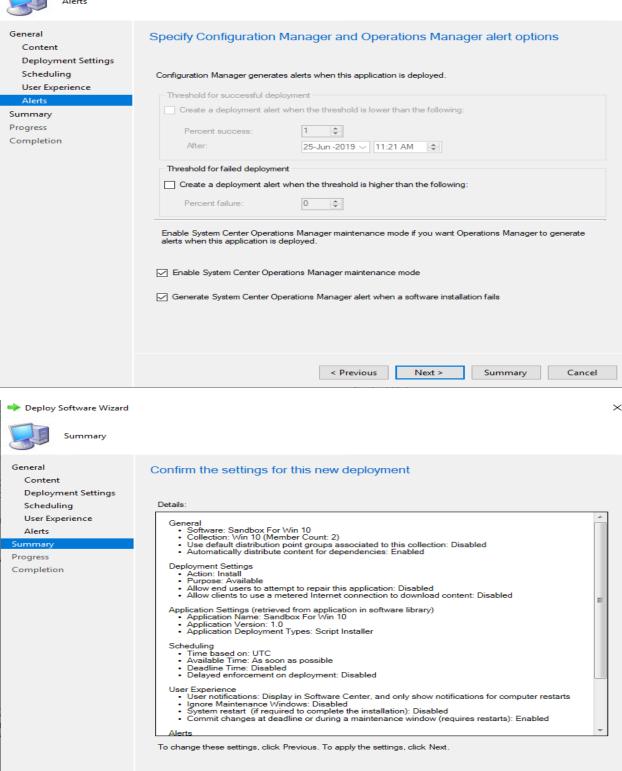
Deployment Settings

General Content Deployment Settings	Specify settings to control how this software is deployed		
Scheduling User Experience Alerts Summary	Action: Purpose:	Install Available	
Progress Completion	An administra If you also sp email can app Learn more	ers to attempt to repair this application tor must approve a request for this application on the device ecify an email address, anyone who receives or is forwarded the prove this request. r1@contoso.com; user2@contoso.com; user3@contoso.com	

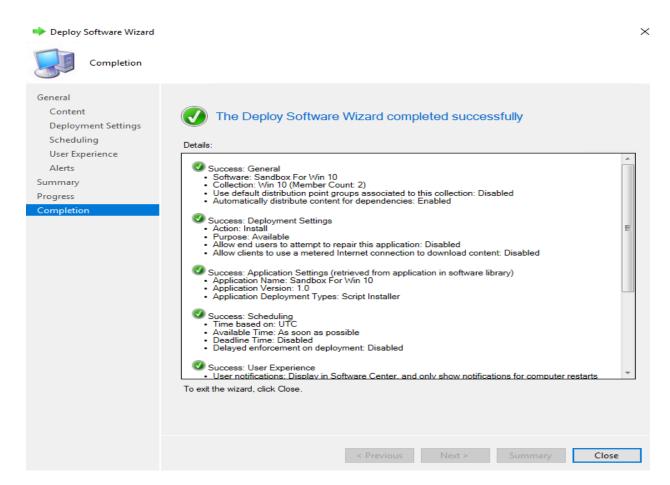


 → Deploy Software Wizard
 ×

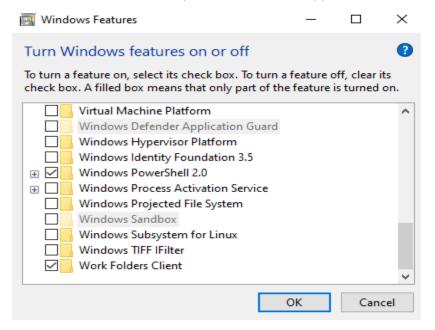




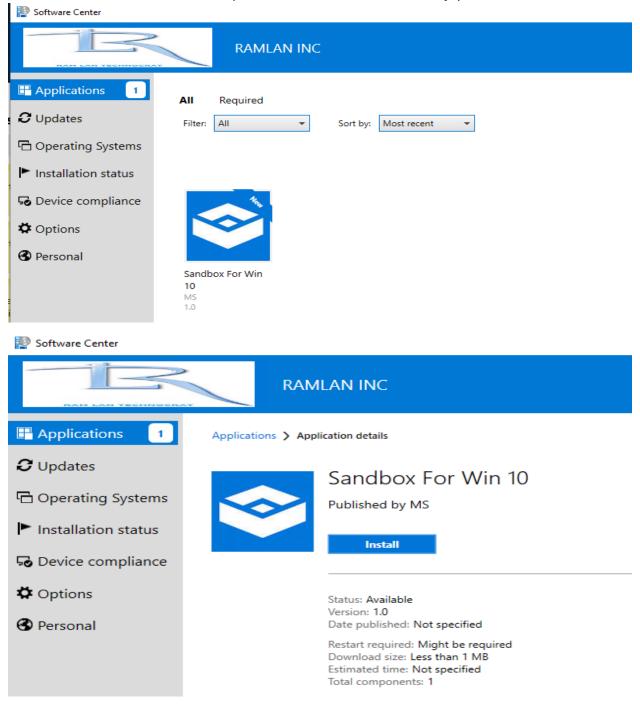
< Previous Next >



As you can see below sandbox is not enabled in features. Please note you cannot deploy sandbox to a virtual machine because the processor does not support. It has to be a physical machine.



After some time, Sandbox will show up in Software Center. Install and enjoy!



To monitor the log – look for this – C:\Windows\Debug - Install Sandbox Feature.log

Please note, I did not test this deployment because, I don't have a spare physical machine with Win 10.

Thanks

Ram Lan 18th Jun 2019

```
function Get-LogDate {
         return "[{0:MM/dd/yy} {0:HH:mm:ss}]" -f (Get-Date)
}
$Script:my_user = (gwmi win32_computersystem).username
$SystemRoot = $env:SystemRoot
$Log_File = "$SystemRoot\Debug\Add_Windows_Sandbox_Feature.log"
If((test-path $Log_File))
    remove-item $Log_File -force
new-item $Log_File -type file -force
                                                    "Script for adding the Windows Sandbox feature"
Add-Content $Log_File
Add-Content $Log_File
                                                    "$(Get-LogDate) - Add_Windows_Sandbox_Feature_v1.0 is starting"
Add-Content $Log_File Add-Content $Log_File
                                                   "$(Get-LogDate) - Checking the current Windows Sandbox status"
Add-Content $Log_File
$Sandbox_Status = $False
$windowsFeature = "Containers-DisposableClientVM"
try
         $\text{windowsFeatureState} = (Get-\text{windowsOptionalFeature} - FeatureName $\text{windowsFeature} - \text{FeatureName} = \text{windowsFeature} - \text{FeatureName} - \text{WindowsFeature} - \text{FeatureName} - \text{WindowsFeature} - \text{Windo
Online).State
  If($windowsFeatureState -eq "Enabled")
       $Sandbox_Status = $True
       Add-Content $Log_File
                                                          "$(Get-LogDate) - The Sandbox feature is already enabled"
  EÌse
       Add-Content $Log_File "$(Get-LogDate) - The Sandbox feature is not enabled"
       $Sandbox_Status = $False
       Try
           Add-Content $Log_File "$(Get-LogDate) - The Sandbox feature is being enabled"
           Enable-WindowsOptionalFeature -FeatureName $\text{$\text{WindowsFeature}} - Online - \text{NoRestart} -
ErrorAction Stop
Add-Content $Log_File "$(Get-LogDate) - The Sandbox feature has been successfully enabled"
           $Sandbox_Status = $True
       catch
           Add-Content $Log_File "$(Get-LogDate) - Failed to enable the Sandbox feature"
    }
}
catch
{
  Add-Content $Log_File "$(Get-LogDate) - Failed to enable the Sandbox feature"
If($Sandbox_Status -eq $True)
    Add-Content $Log_File Add-Content $Log_File
Add-Content $Log_File "$(Get-LogDate) - Checking if the current user is member of the Hyper-V administrators group"
$Get_HyperV_Users = get-LocalGroupMember -group "Hyper-V administrators" | where {$_.Name -like "*$my_user*"}
     If($Get_HyperV_Users -eq $null)
         Add-Content $Log_File "$(Get-LogDate) - Current user name is $my_user"
```

```
Add-Content $Log_File "$(Get-LogDate) - The user $my_user is not member of the group Hyper-V administrators"

Try

Add-LocalGroupMember -group "Hyper-V administrators" -member $my_user

Add-Content $Log_File "$(Get-LogDate) - The user $my_user has been successfully added in the group Hyper-V administrators"

Catch

Add-Content $Log_File "$(Get-LogDate) - An issue occured while adding the user $my_user in the group Hyper-V administrators"

}
}

Add-Content $Log_File "$(Get-LogDate) - Add_Windows_Sandbox_Feature_v1.0 finished"
```