



DLS Technology Corporation

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# **vKey<sup>®</sup> 6.1**

## **vKey Trial Guide**

2024.10 | Version 1.0

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# Welcome to the vKey Trial Guide!

This guide will help you quickly get started with your vKey device, providing you with the essential steps and tips to make the most of its features.

## Briefly, what is vKey?

vKey OS is a lightweight, immutable operating system that provides a secure environment for delivering applications. It prevents virus attacks or malware modifications, making it ideal for handling sensitive information. Key features include:

- Compatibility with remote access systems (e.g., Citrix)
- Data encryption at rest and in transit
- Quick setup for trusted, secure endpoints
- Strong security controls for compliance with data protection regulations

# Minimum System Requirement

vKey OS can operate under the following minimum configuration. Note that the system and most applications will benefit from having more than the minimum resources:

- x86-64 2GHz dual-core processor or faster
- 2GB System Memory
- 20GB unallocated drive space
- VMware Workstation 17 Player or an Oracle VM VirtualBox 7 for vKey Virtual Machine (VM)

# Running your vKey

In this trial, you can experience both the vKey To Go and vKey VM. Please refer to each section to run your vKey device.

- [vKey To Go \(USB-A/USB-C\)](#)
- [vKey VM](#)

## vKey To Go (USB-A/USB-C)

Running your vKey on vKey To Go is a seamless experience. vKey To Go can come in two form factors: USB-A (the left one) and USB-C (the right one).

It is the same way to run both types of devices.



On your Desktop or Laptop PC, plug in vKey To Go.

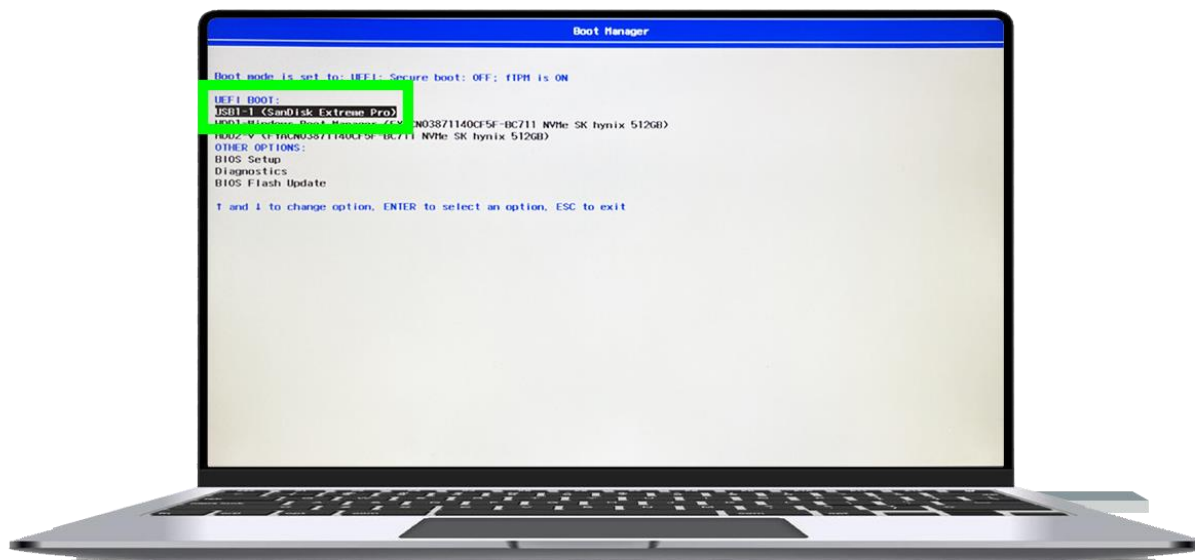


Reboot your device using the vKey To Go. Restart your device and keep pressing the appropriate key to access the boot menu or BIOS. For example, press F12 for Dell laptop.

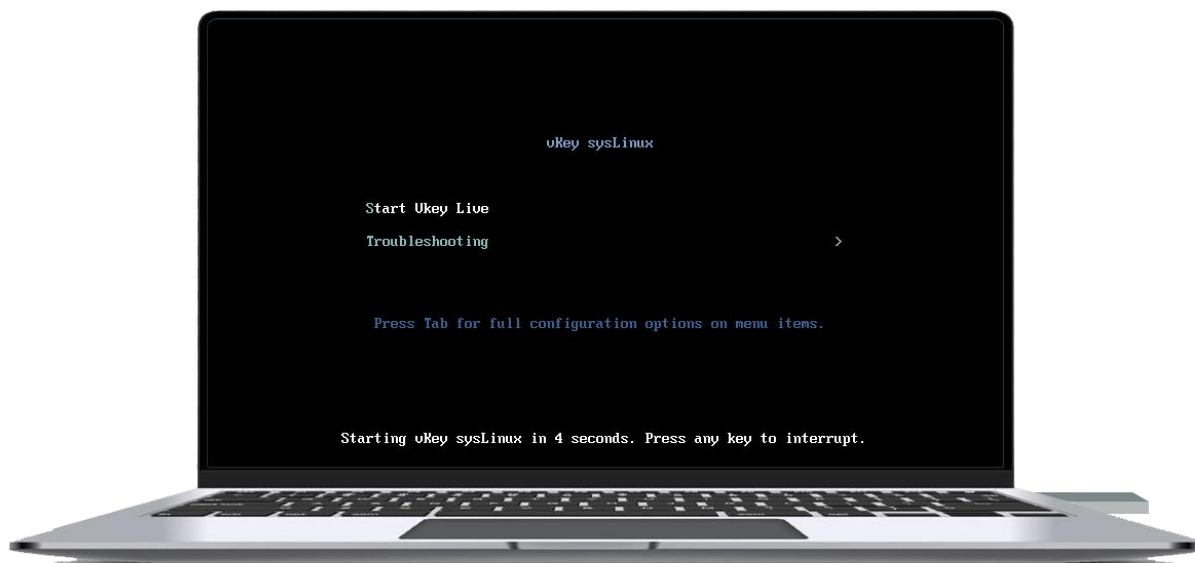
*Note: Common keys for accessing the BIOS or boot menu include F2, F12 Esc, and Del. Please check your device instruction menu for more information.*



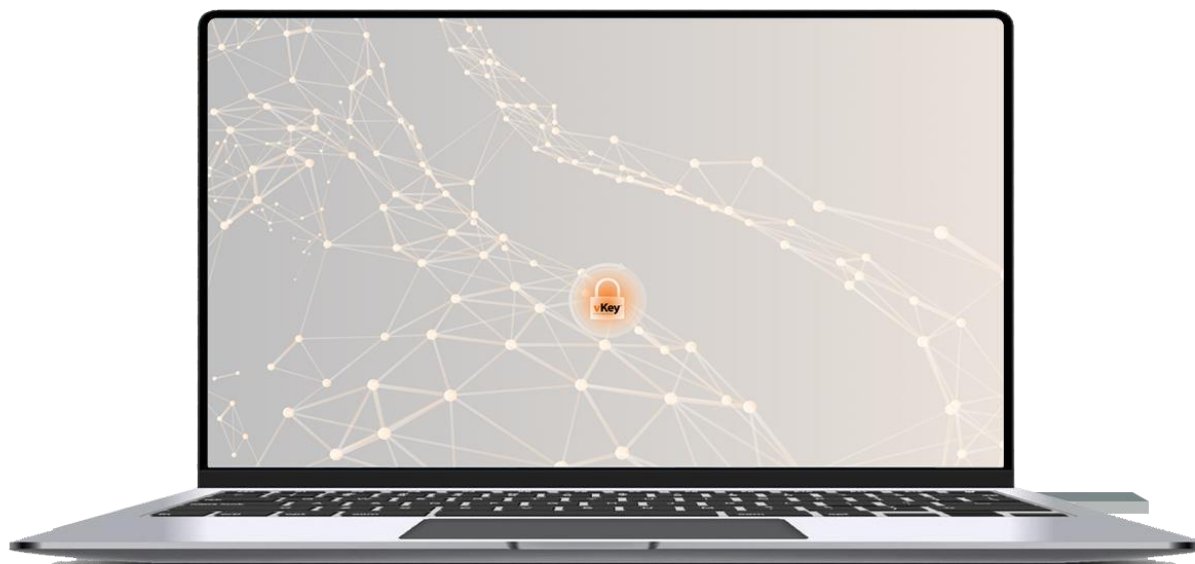
When you see the reboot screen, select the USB disk and press enter.



You will see a black screen with words indicating the vKey is booting.



Then, you will see a vKey booting page with a vKey icon. This booting process will take approximately 3 minutes. Enter your password when prompted.



The vKey To Go is ready now. Please ensure the USB disk is plugged in properly during use. Enjoy your vKey!





## vKey VM

vKey VM is a vKey Virtual Image that runs on a **VMware Workstation 17 Player** or an **Oracle VM VirtualBox 7** desktop hypervisor on your Windows computer. Please refer to the sections below to run your vKey on each platform.

- [vKey VM on VMware Workstation 17 Player](#)
- [vKey VM on Oracle VM VirtualBox 7](#)



### Warning & Advice

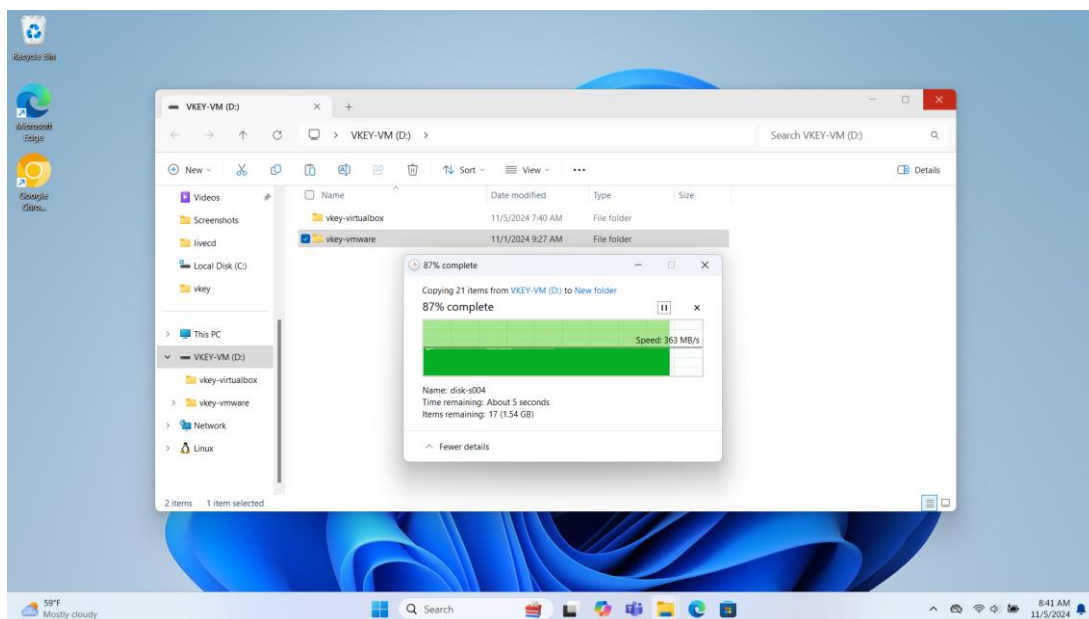
In addition to the hardware requirements of Windows OS, you should have additional hardware resources to run the vKey VM. Please consult with the [Minimum System Requirement](#) section of this guide for more information.

## vKey VM on VMware Workstation 17 Player

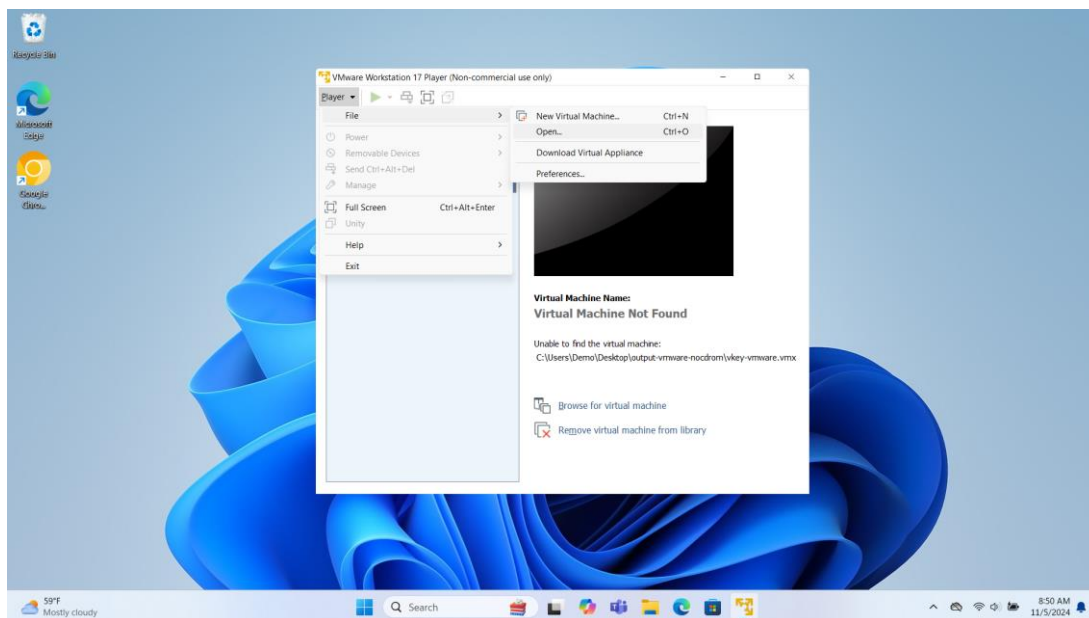
To install the **VMware-player-17.5.2** on your machine, please kindly follow the link below to download the official installer via Broadcom. Please note that you will need a Broadcom account to download the required installer.

[ProductFiles - Support Portal - Broadcom support portal](#)

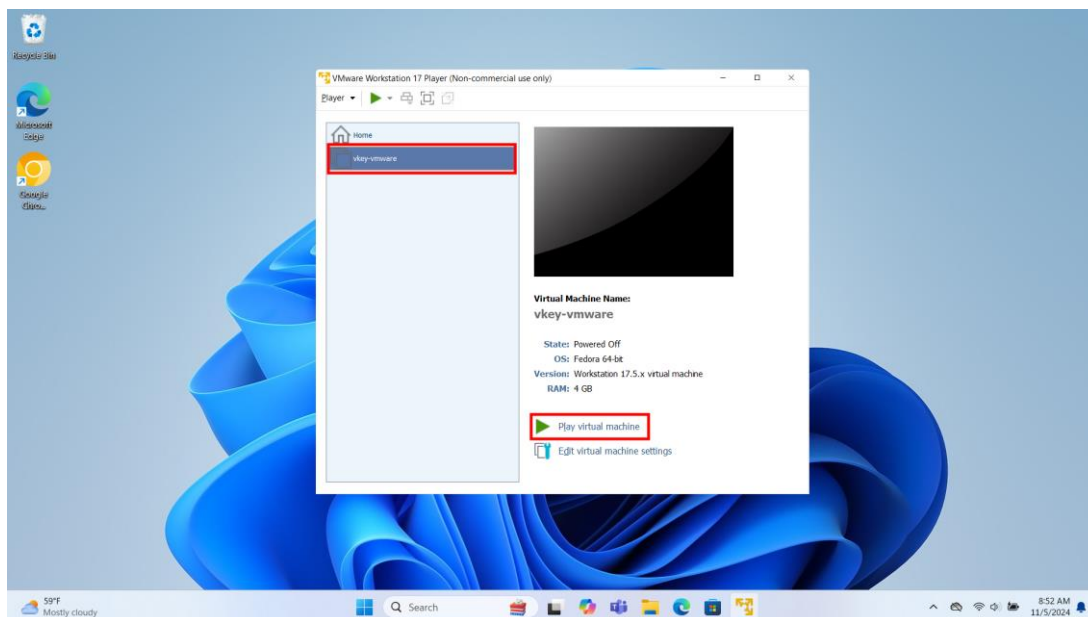
On your Desktop or Laptop PC, plug in vKey To Go. You will find a mount called **VKEY-VM** appears in your file manager. Copy the folder **vkey-vmware** to your Windows machine.



After installing the VMware player, open the **VMware player**, click **Player -> File -> Open...**, and in the file navigator, go to the path where you copied the **vkey-vmware** folder, and open the **.vmx** file.



To run the vKey VM, you can simply double-click the **vKey-vmware** on the side panel or click **Play virtual machine**.



Additional steps are available to configure VMware Player 17.5.2 further and enhance performance. Please refer to [Appendix A](#) for more information.

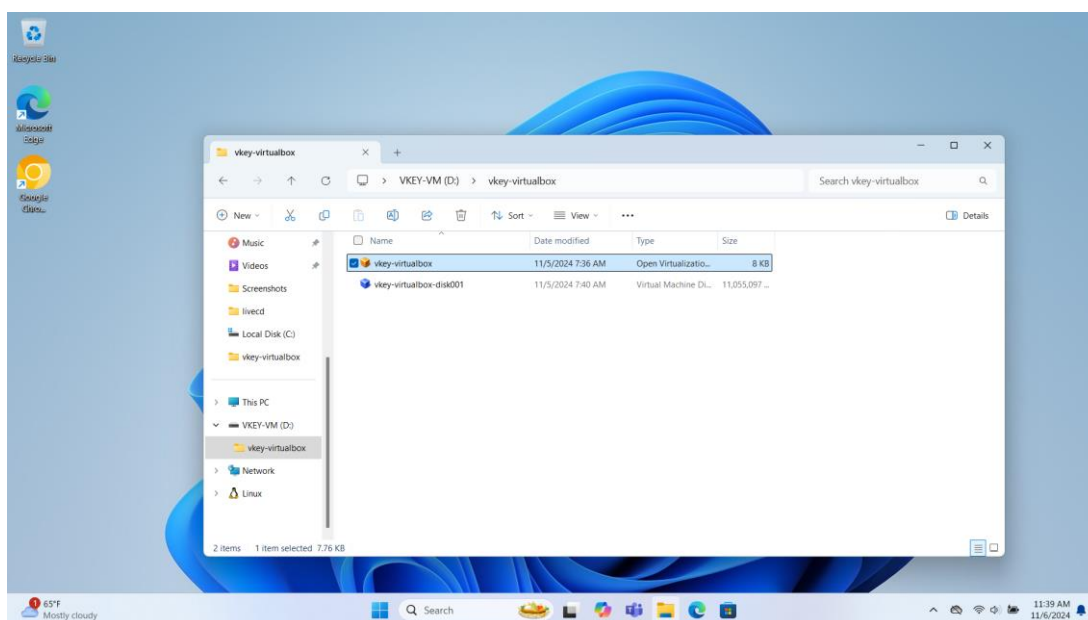
## vKey VM on Oracle VM VirtualBox 7

Please visit the official Oracle VirtualBox website to download the latest VirtualBox package and the accompanying VirtualBox Extension Pack.

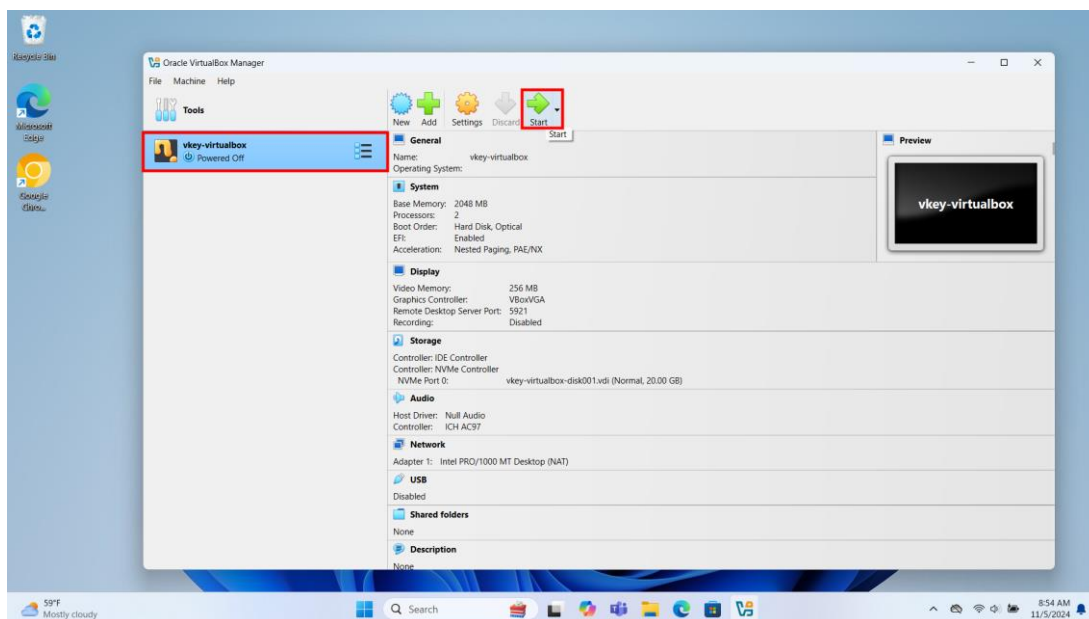
### [Downloads – Oracle VirtualBox](#)

Open the **vkey-virtualbox** folder on **VKEY-VM** and double-click the **vkey-virtualbox** image to import it with VirtualBox. The VirtualBox application will then load the vKey virtual machine.

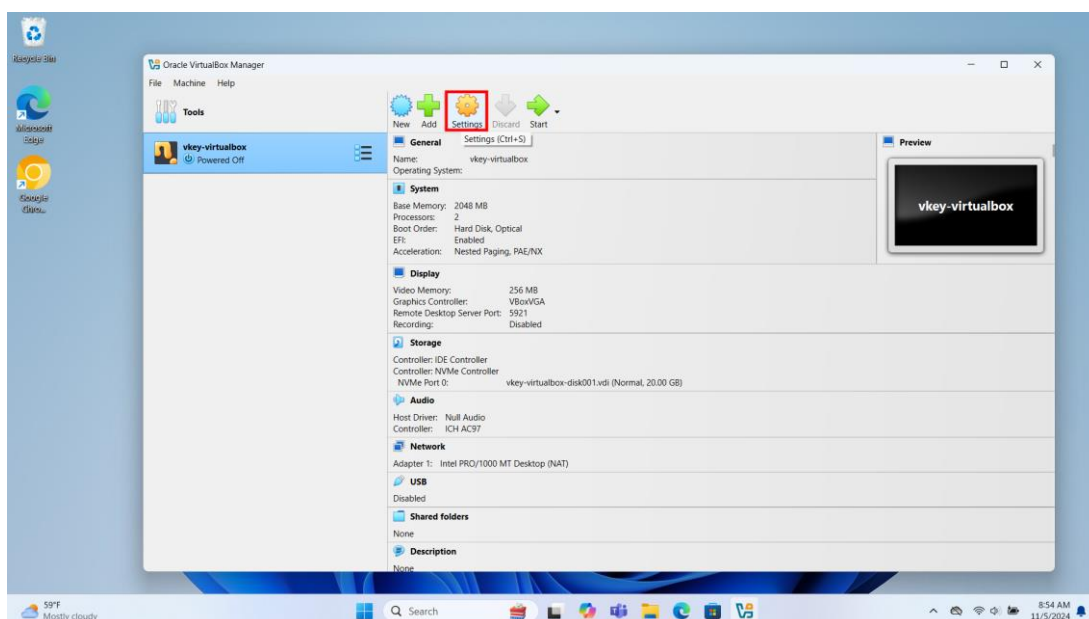
Alternatively, you can open VirtualBox, click **File -> Import Appliance...**, and import the vkey-virtualbox image.



Once the vKey VM is loaded, it will appear in the side panel of VirtualBox. To start the VM, simply select it from the side panel and click Start.



To edit the virtual machine, select it from the side panel and click Settings.



# Getting started with vKey OS

Getting started with vKey OS is easy. When you first receive a vKey device from your organization, your device will most likely be in an unactivated state.

Unactivated vKey is clearly marked with the following watermark:



You will not see the special watermark if your system administrator has already activated your device. In this case, you can go straight to the "[Using your vKey](#)" Section.

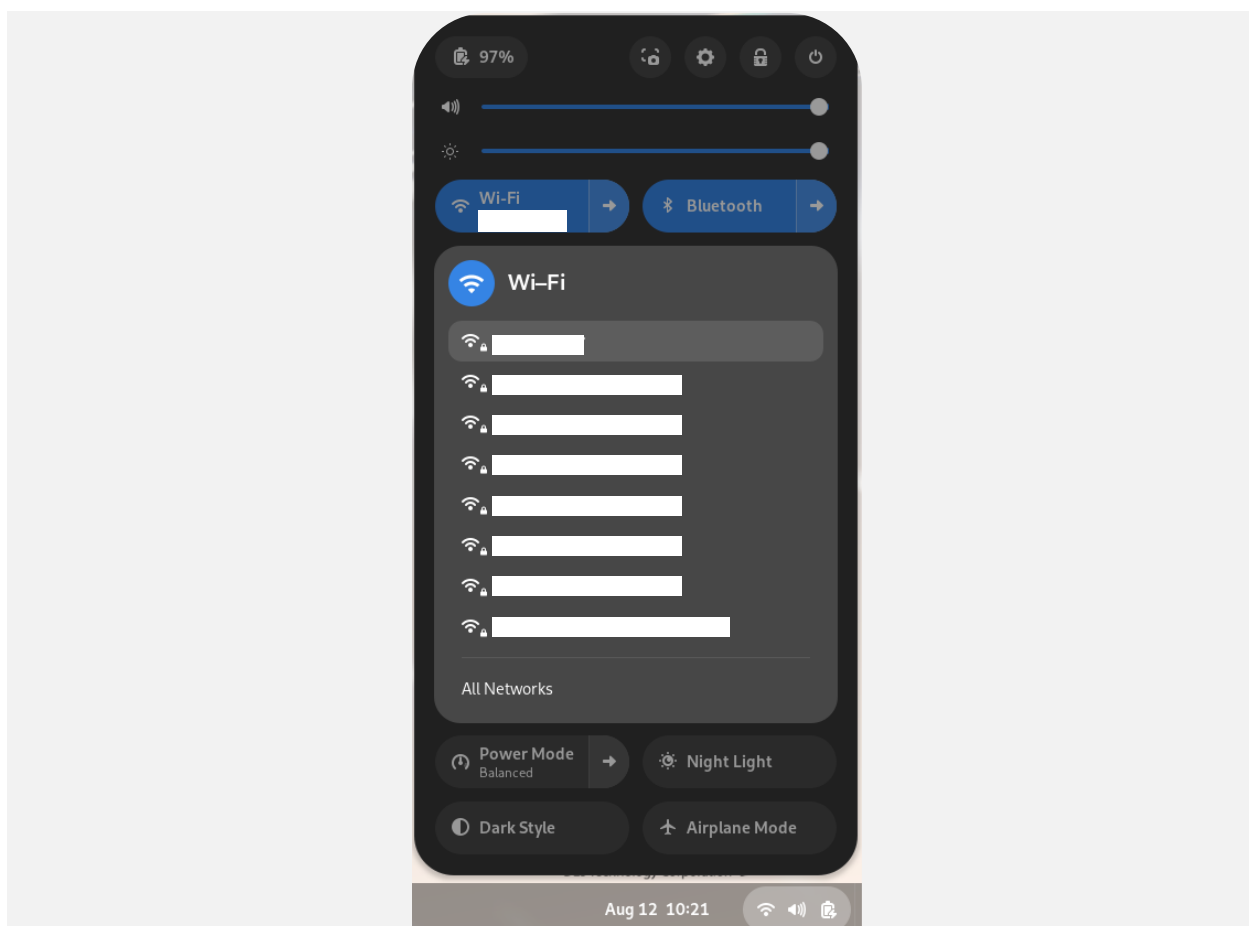
# About Your Trial Activation

Please note that your vKey device will be activated under the special trial account provided by DLS. The trial activation license expires automatically in 15 days.

DLS also monitors and collects various activity data for our trial devices for continuous product enhancement.

## Activating your vKey - Step 1

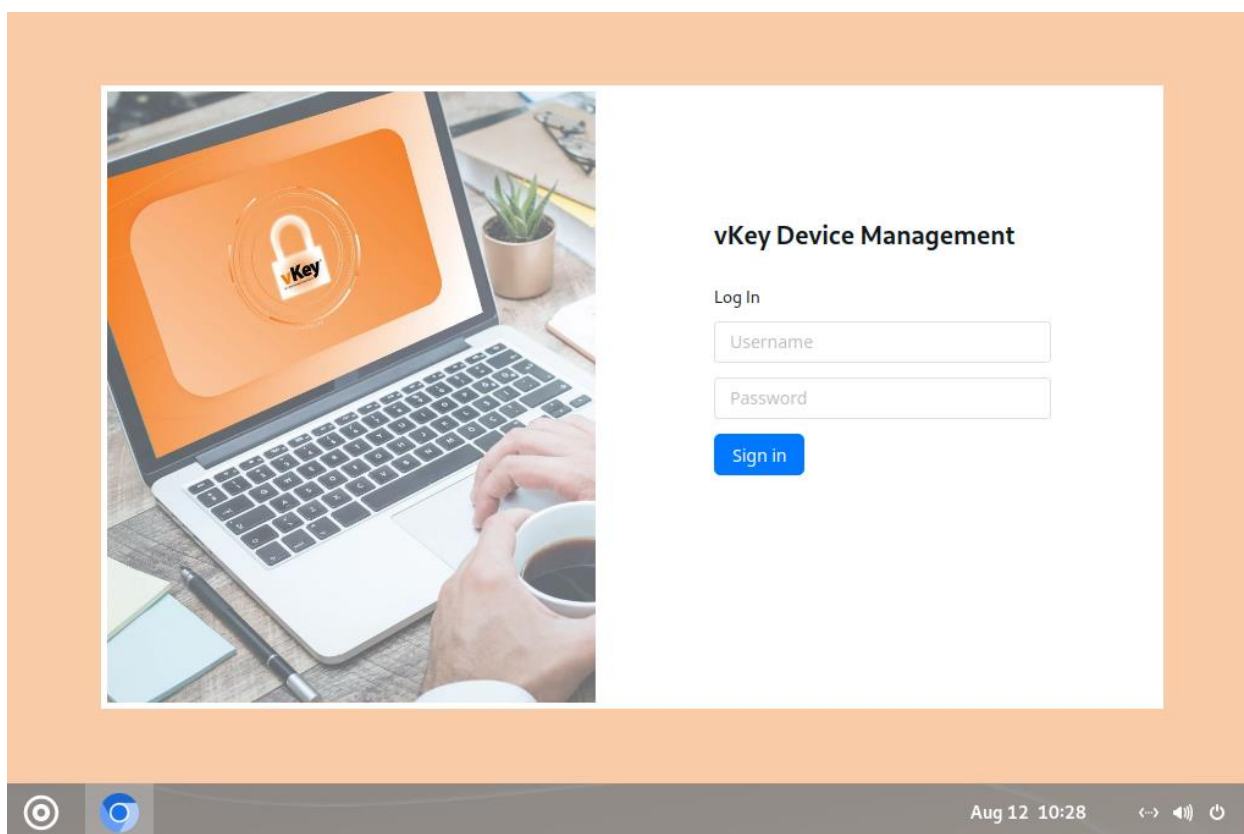
On your vKey, connect to a Wi-Fi Network or Ethernet.



## Activating your vKey - Step 2

Open a browser, go to vKey Device Manager (VDM) at <https://vdm.vkey.ca>, and log in with the trial account.

Please find the account information provided in the **vKey Trial Activation** email.



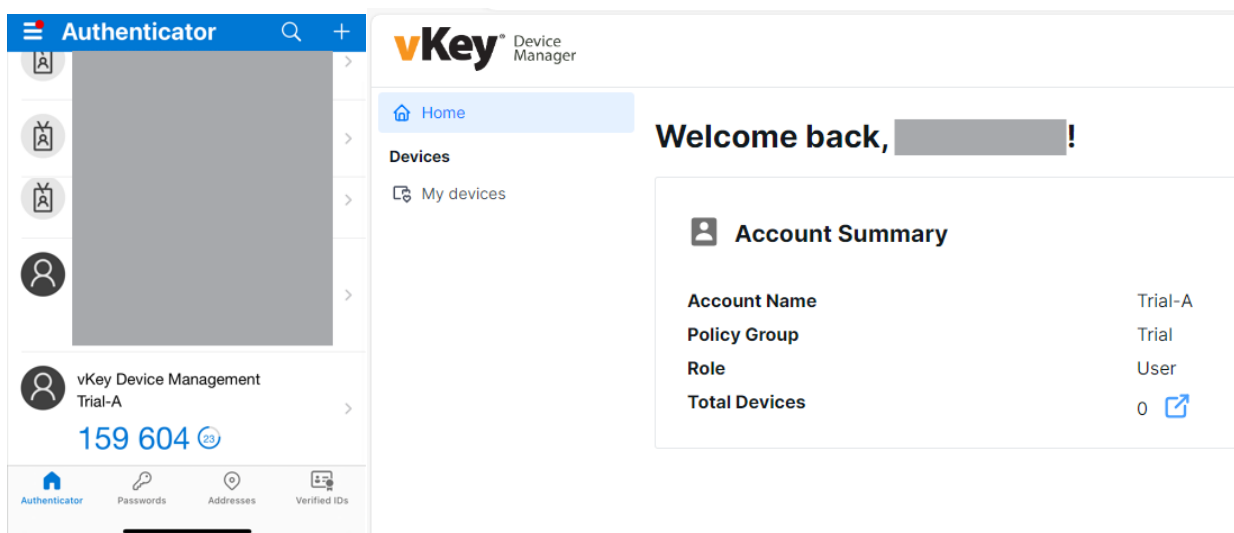


You will be prompted to activate the Multi-Factor Authentication (MFA) with Microsoft Authenticator.

Open your Microsoft Authenticator, select “Other”, then scan the QR code on the screen.

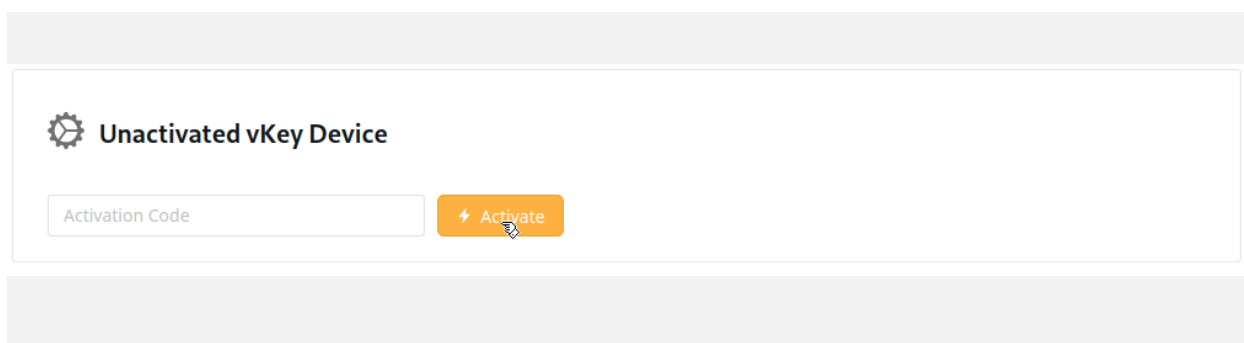


You will see the authentication code in the Authenticator app. Put the code in vDM, and you are successfully logged in!



## Activating your vKey - Step 3

On the vDM home page, enter the trial activation code and click "Activate". Please find the activation code provided in the **vKey Trial Activation** email.



The screenshot shows a web interface for activating a vKey device. At the top, there is a gear icon followed by the text "Unactivated vKey Device". Below this, there is a text input field labeled "Activation Code" and an orange button with a lightning bolt icon and the text "Activate". A mouse cursor is hovering over the "Activate" button.

## Activating your vKey - Step 4

Restart your machine and you are good to go!

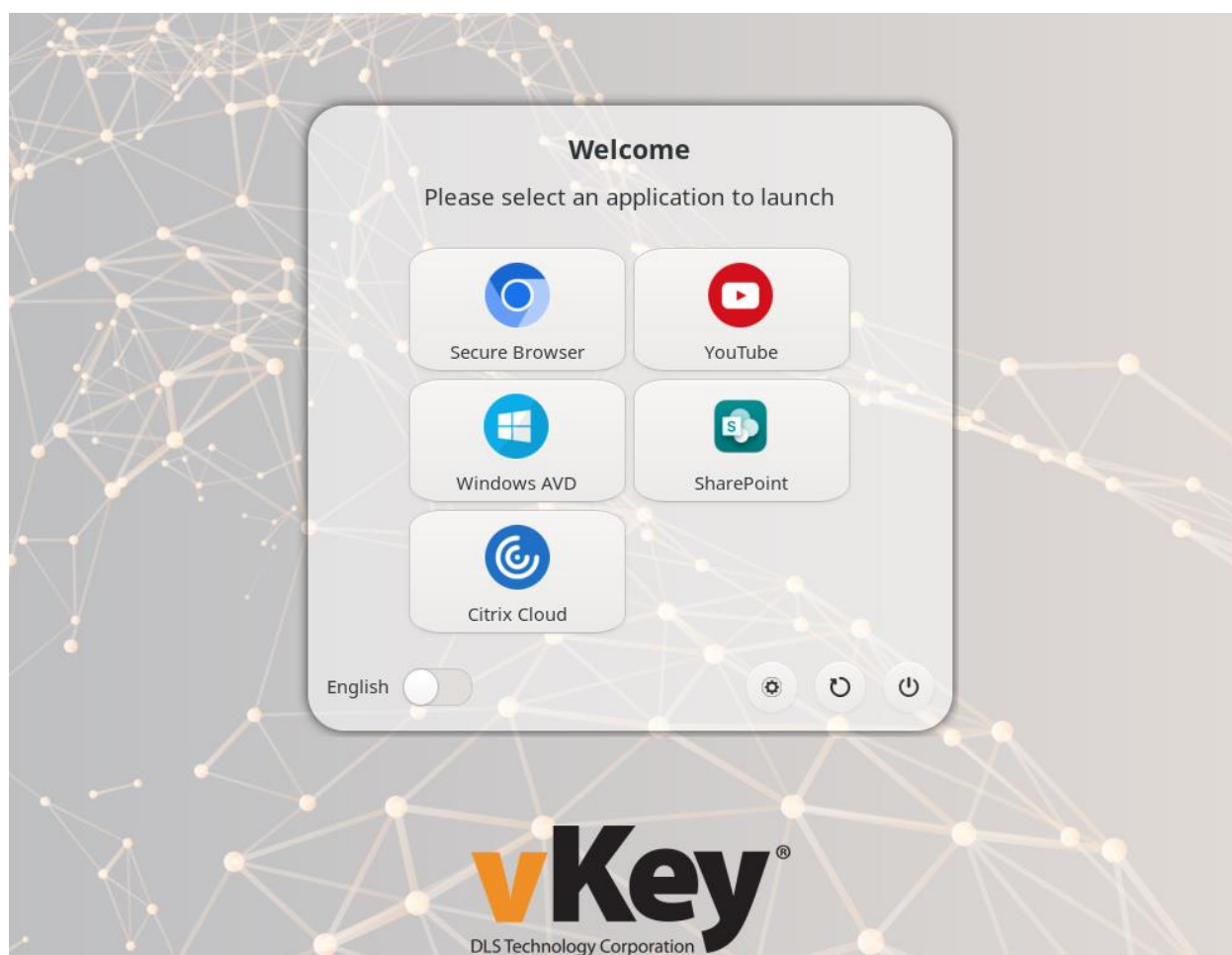


# Using your vKey

Once activated, your trial vKey device will be directed to the Single Application Mode (S.A.M.).

## Single Application Mode (S.A.M.)

This is a simplistic, lockdown, application centric mode where you can access your applications that are managed by your system administrator.



# S.A.M. Desktop

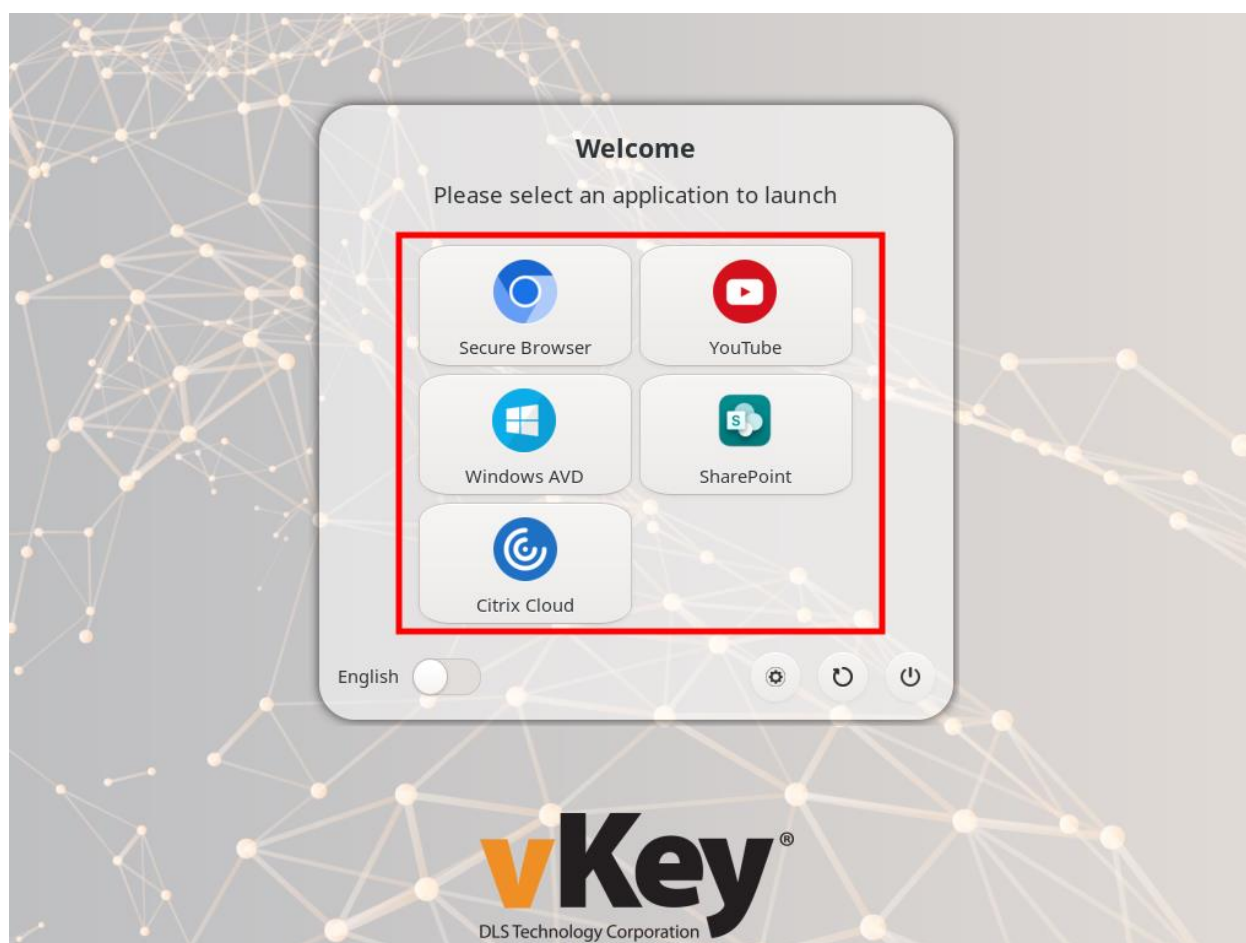
Applications available on your device are shown in the highlighted section. You can launch applications with a simple mouse click.

To access Citrix Cloud:

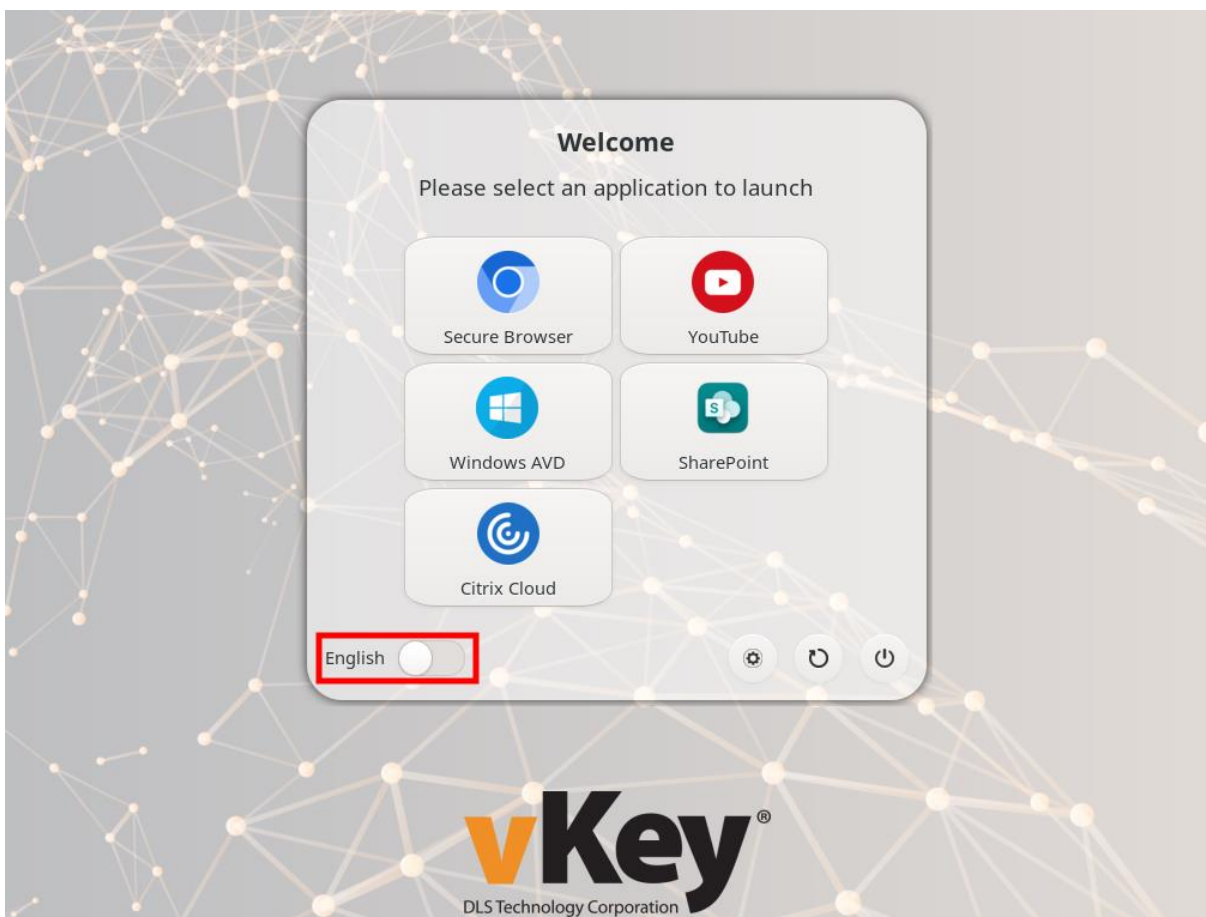
- Please find the DLS demo server and account information provided in the **vKey Trial Activation** email.

To use Microsoft Windows on Azure Virtual Desktop:

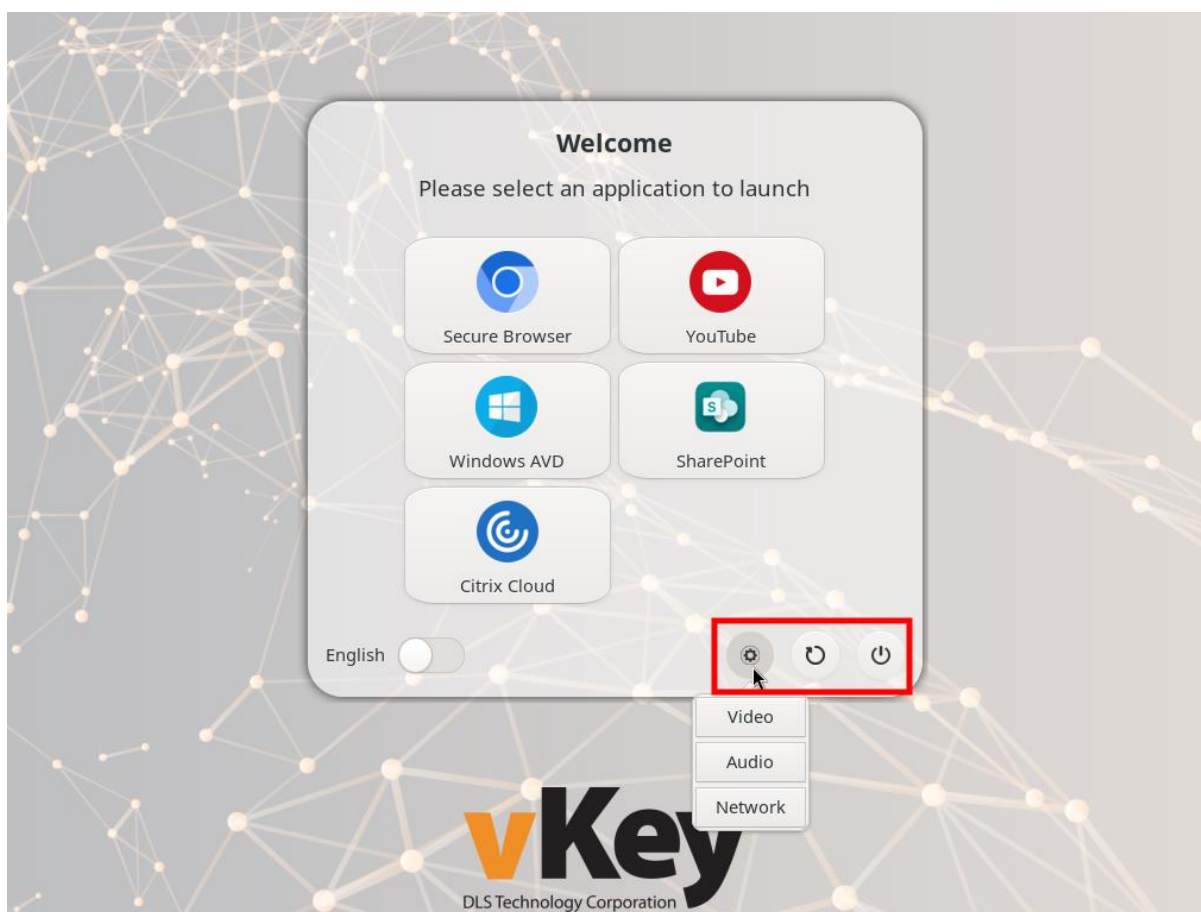
- Please find the account information provided in the **vKey Trial Activation** email.



System language can be toggled (English <--> French).



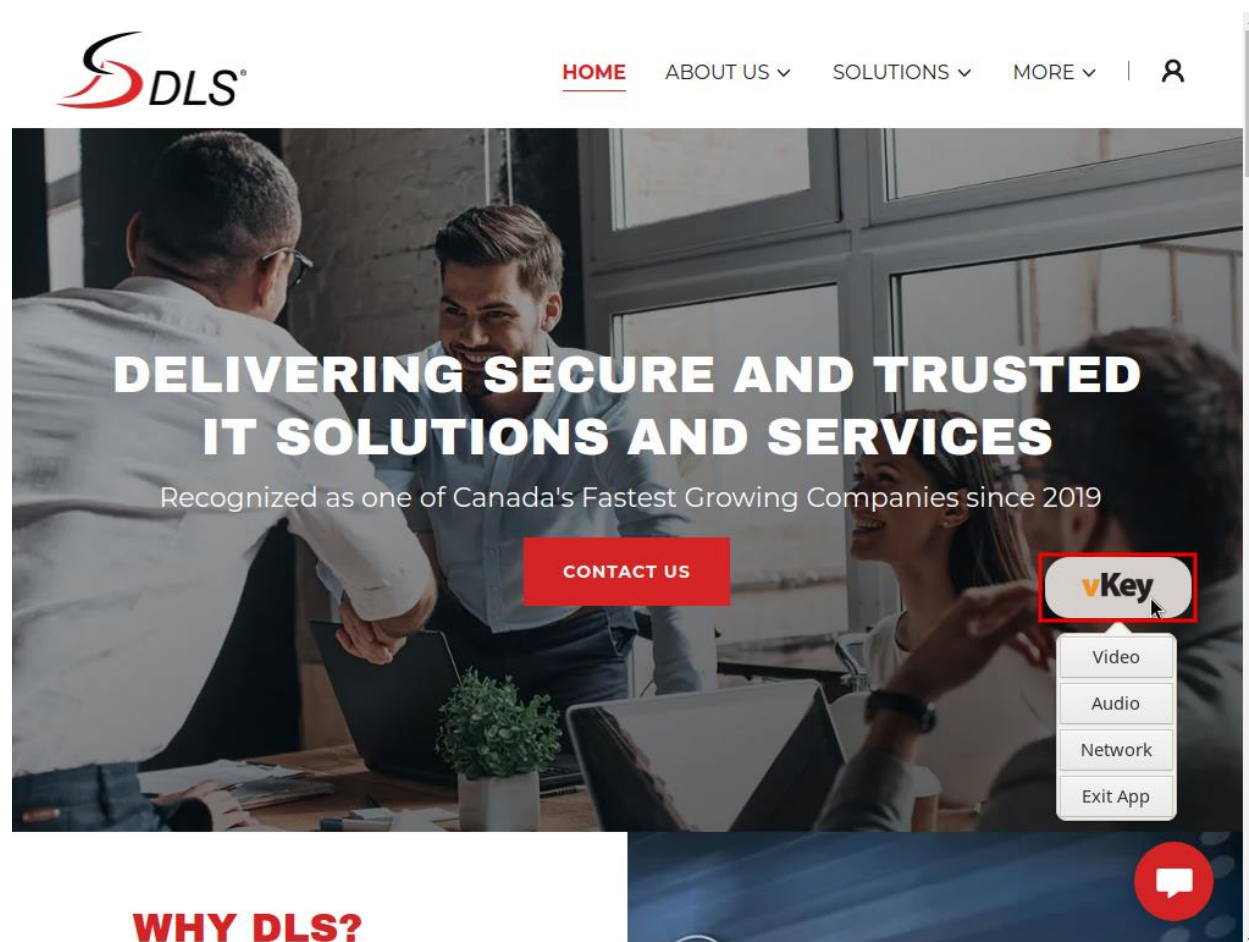
System configurations, robot, power-off.





When an application is launched, a configuration button becomes available.

This button is both draggable and expandable, allowing you to exit the launched application and access all system configurations.



# Turning Your Device into a vKey

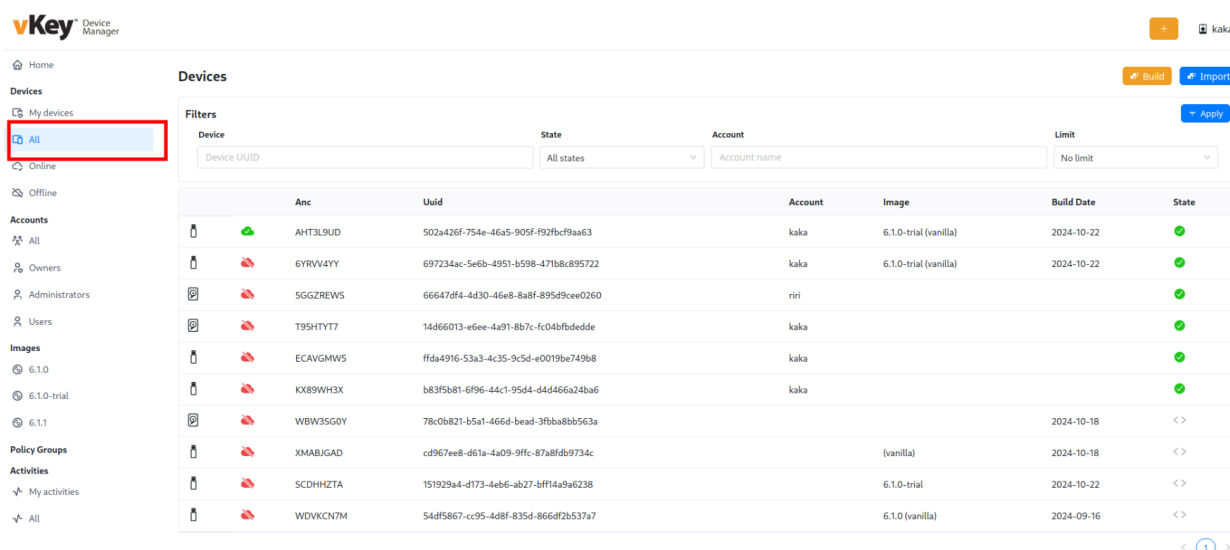
Additionally, you can also install vKey OS to your machine's hard drive with the vKey Trial device.



## Warning & Advice

Installing vKey OS directly on your machine will reformat the hard drive. This process will cause **permanent data loss** and is **not recoverable**. Make sure you have backup for your important data! Additionally, the build process can only be done through an activated vKey To Go.

Boot in with vKey To Go and log in to your account on vDM. Navigate to the **All** section by clicking the panel highlighted in red.



**vKey Device Manager**

**Devices**

**Filters**

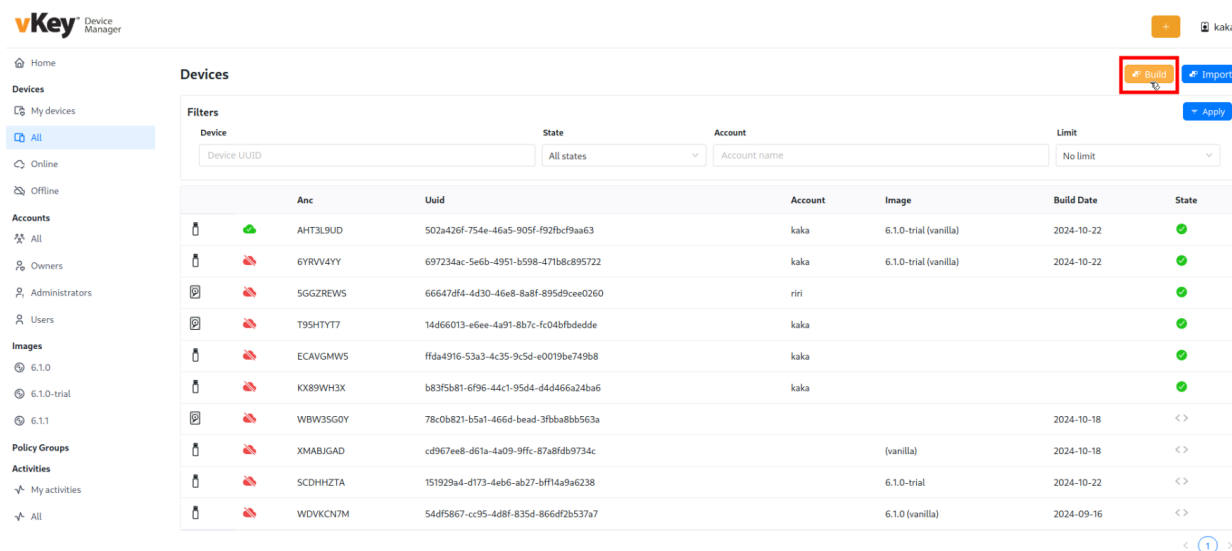
Device:  State:  Account:  Limit:

**Table:**

Anc	Uuid	Account	Image	Build Date	State
AHT3L9UD	502a426f-754e-46a5-905f-f92fbc9aa63	kaka	6.1.0-trial (vanilla)	2024-10-22	✓
6YRV4YY	697234ac-5e6b-4951-b598-471b8c895722	kaka	6.1.0-trial (vanilla)	2024-10-22	✓
SGGZREWS	66647df4-4d30-46e8-8a8f-895d9cee0260	riri			✓
T99HTY7	14d66013-e6ee-4a91-8b7c-fc04bfbdedde	kaka			✓
ECAVGMW5	ffda4916-53a3-4c35-9c5d-e0019be749b8	kaka			✓
KX89WH3X	b83f5b81-6f96-44c1-95d4-d4d466a24ba6	kaka			✓
WBW35G0Y	78c0b821-b5a1-466d-bead-3fbbabbb563a			2024-10-18	<>
XMABJGAD	cd967ee8-d61a-4a09-9ffc-87a8fdb9734c		(vanilla)	2024-10-18	<>
SCDH4ZTA	151929a4-d173-4eb6-ab27-bf14a9a6238		6.1.0-trial	2024-10-22	<>
WDWKCN7M	54df5867-cc95-4d8f-835d-866df2b537a7		6.1.0 (vanilla)	2024-09-16	<>



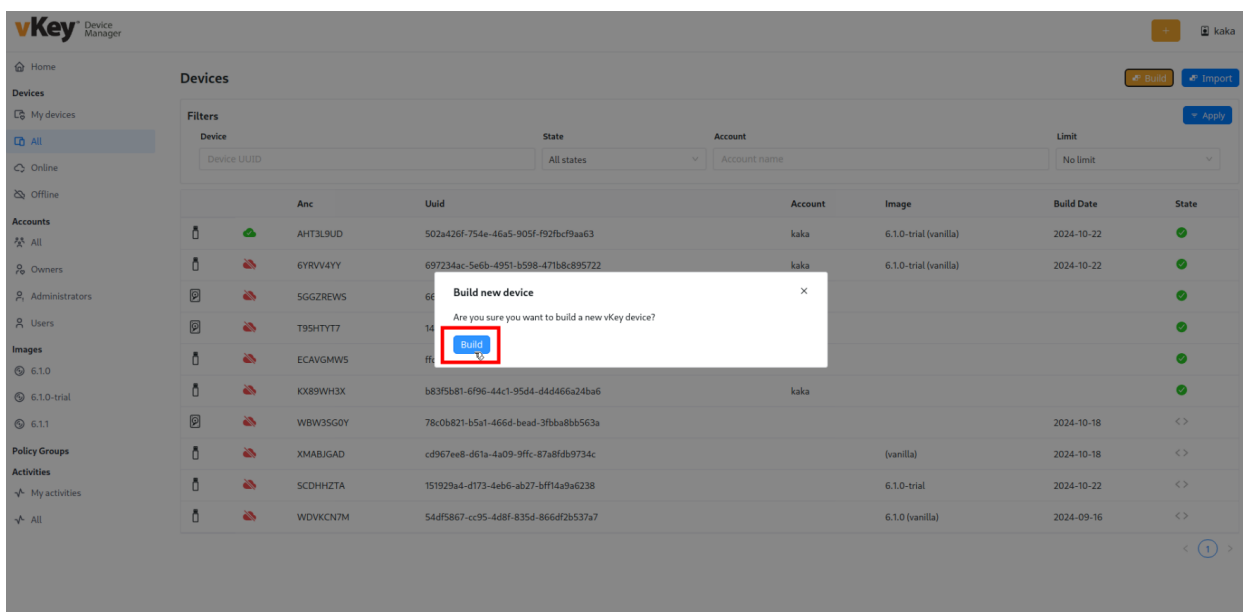
Click the **Build** button.



The screenshot shows the vKey Device Manager interface. In the top right corner, there is a '+ kaka' button and a 'Build' button (highlighted with a red box) next to an 'Import' button. The main area displays a table of devices with columns: Anc, Uuid, Account, Image, Build Date, and State. The table contains several rows of device information. A filter bar at the top allows filtering by Device, State, Account, and Limit.

Anc	Uuid	Account	Image	Build Date	State
AHT3L9UD	502a426f-754e-46a5-905f-f92bcb9aa63	kaka	6.1.0-trial (vanilla)	2024-10-22	✓
6YRVV4YY	697234ac-5e6b-4951-b598-471b8c895722	kaka	6.1.0-trial (vanilla)	2024-10-22	✓
SGGZREWS	66647df4-4d30-46e8-8a8f-895d9cee0260	riri			✓
T9SHTYT7	14d66013-e6ee-4a91-8b7c-fc04bfbdedde	kaka			✓
ECAVGMW5	ffd4916-53a3-4c35-9c5d-e0019be749b8	kaka			✓
KX89WH3X	b83f5b81-6f96-44c1-95d4-d44466a24ba6	kaka			✓
WBW3SGOY	78c0b821-b5a1-466d-bead-3fba8bb563a			2024-10-18	<>
XMAJXGAD	cd967ee8-d61a-4a09-9ffc-87a8fdb9734c		(vanilla)	2024-10-18	<>
SCDH4ZTA	151929a4-d173-4eb6-ab27-bff14a9a6238		6.1.0-trial	2024-10-22	<>
WDVKCN7M	54df5867-cc95-4d8f-835d-866df2b537a7		6.1.0 (vanilla)	2024-09-16	<>

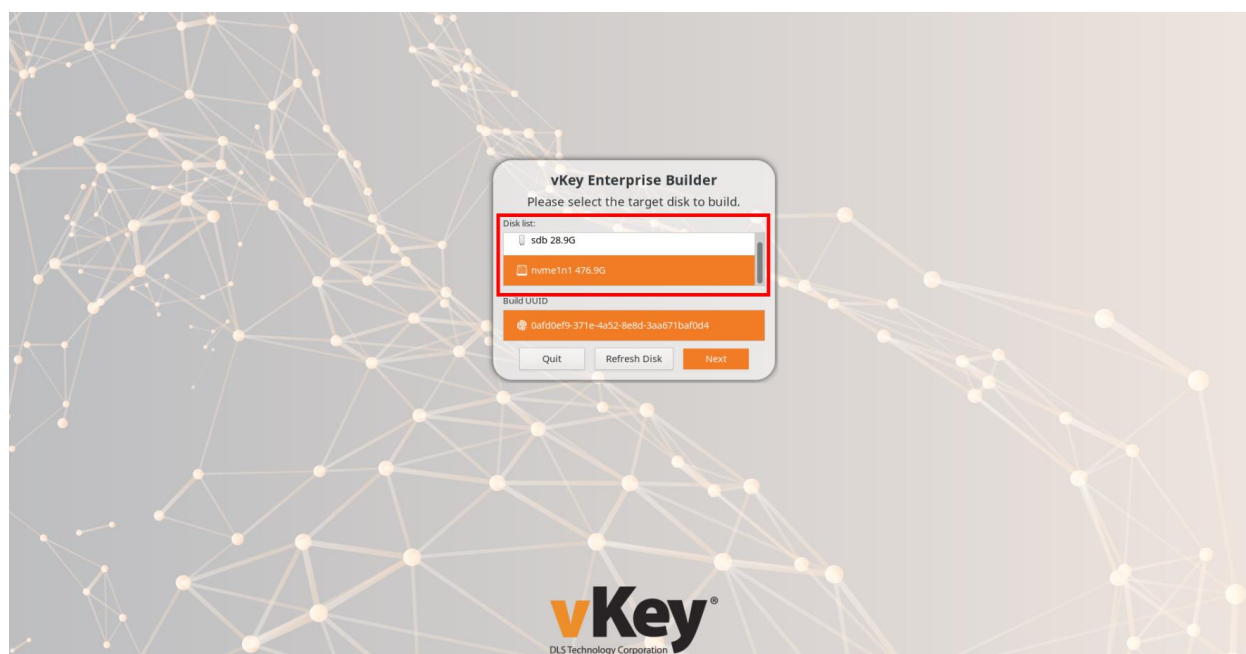
A confirmation window will spawn as follows: click **Build** to proceed.



The screenshot shows the vKey Device Manager interface with a 'Build new device' confirmation dialog box open. The dialog box contains the text 'Are you sure you want to build a new vKey device?' and a 'Build' button (highlighted with a red box). The background interface is dimmed, showing the same device table as the previous screenshot.

Then, click on the “**Exit App**” button on the **configuration button** to return to the home page.

Select a target medium. If your target medium is not listed, you can click **Refresh Disk** to re-detect disks.

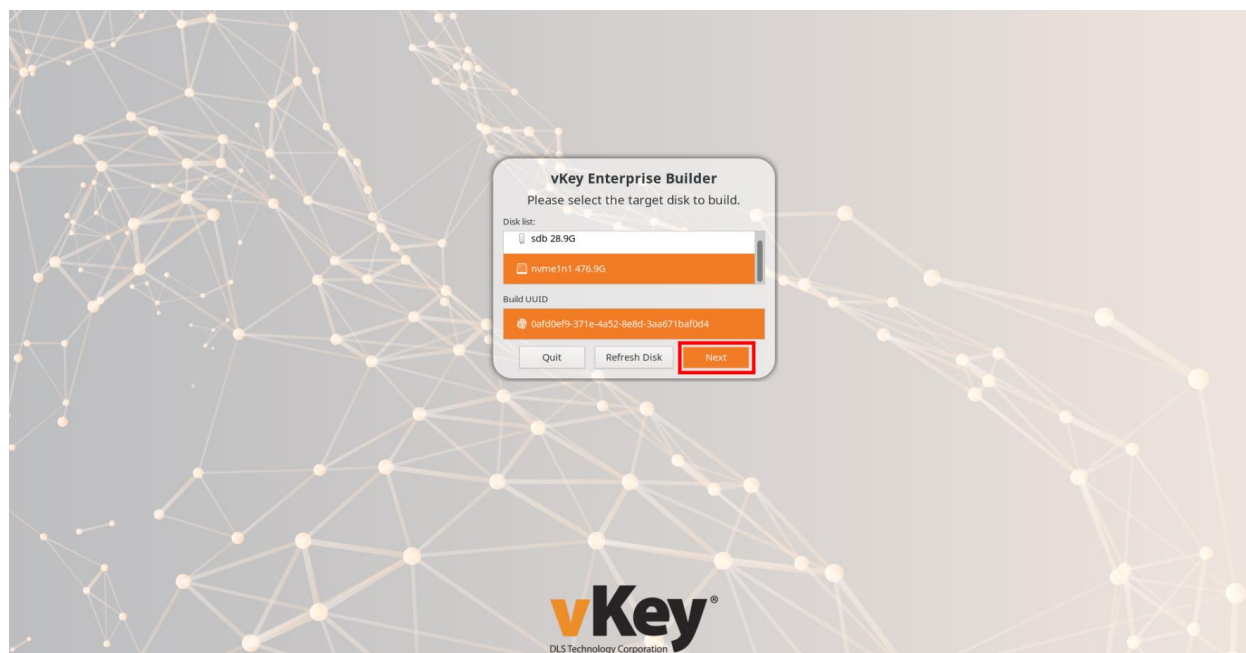


Click **Next** to proceed to install vKey OS on the target medium.

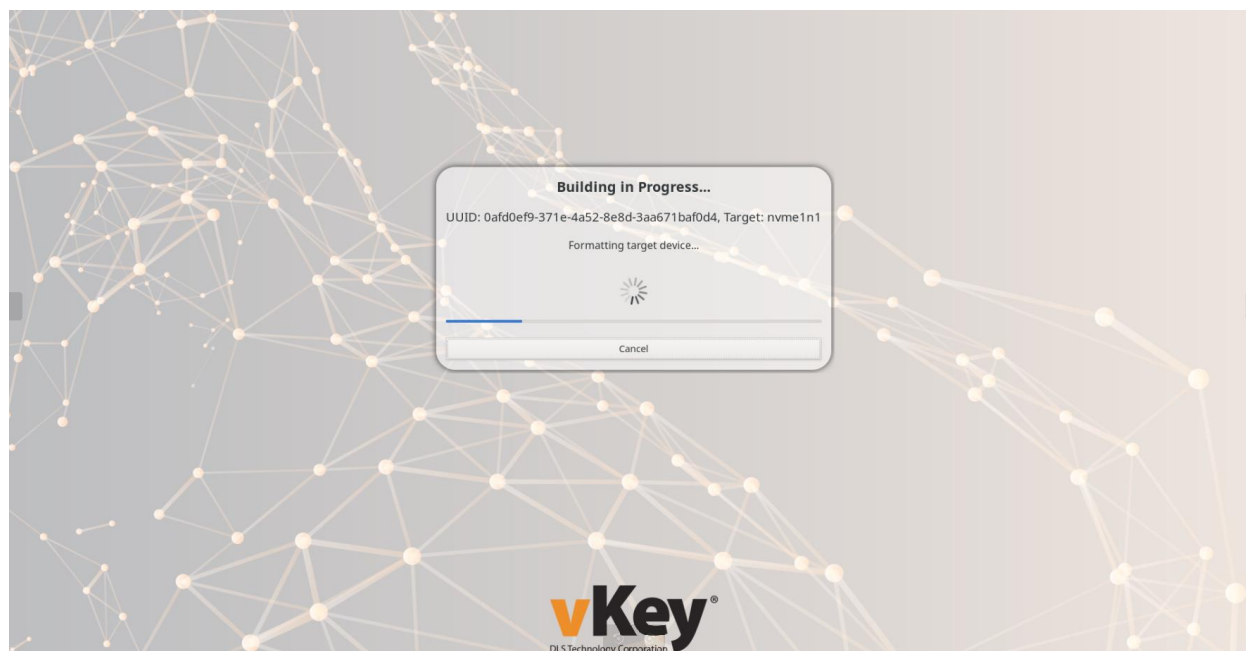


### Warning & Advice

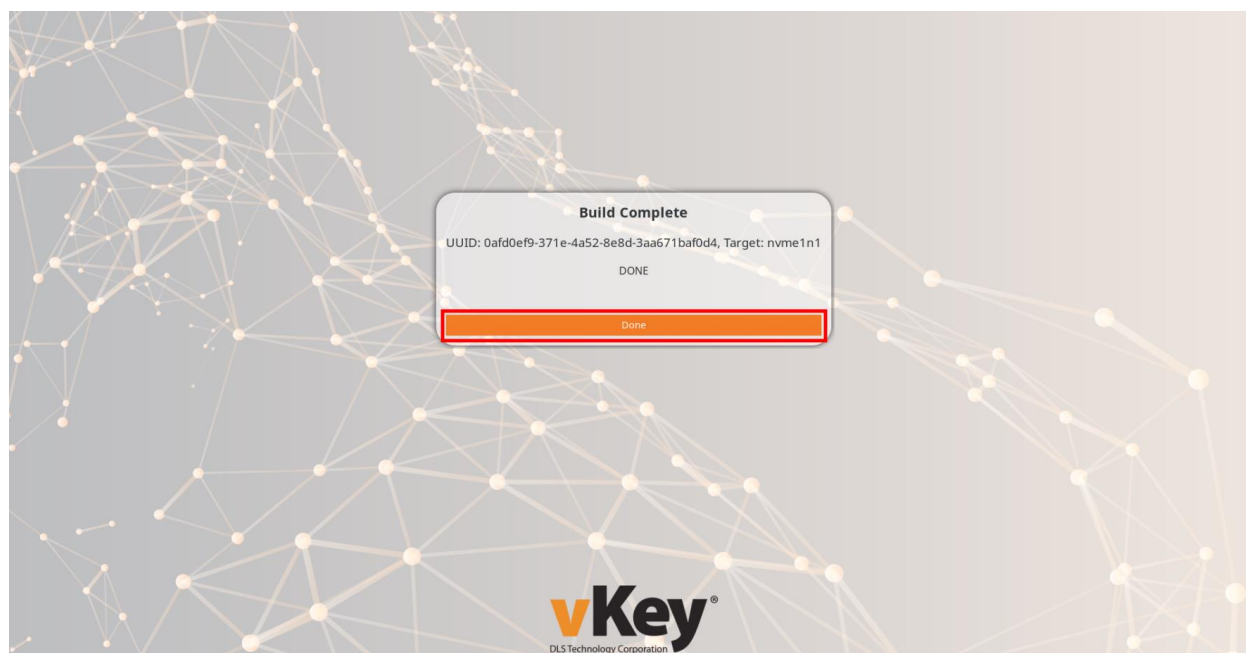
Please note that by clicking Next, all data on the target medium will be deleted.



Wait for the installation to complete (approximately 3 minutes).

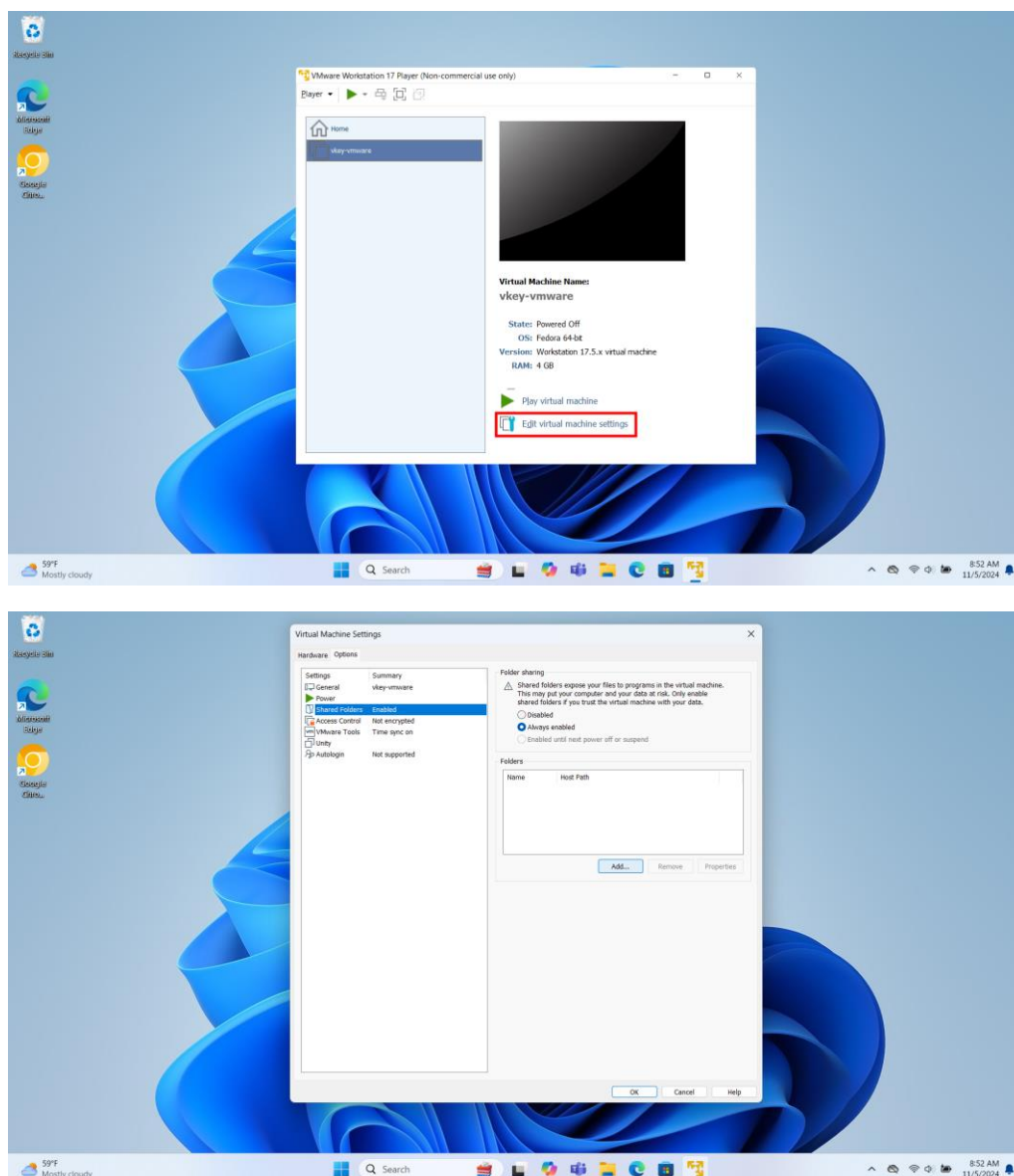


After the installation is complete, click Done to close the interface. Reboot your device and enter the BIOS to change the boot order if needed.



# Appendix A – Optional Steps to Configure VMware Player 17.5.2

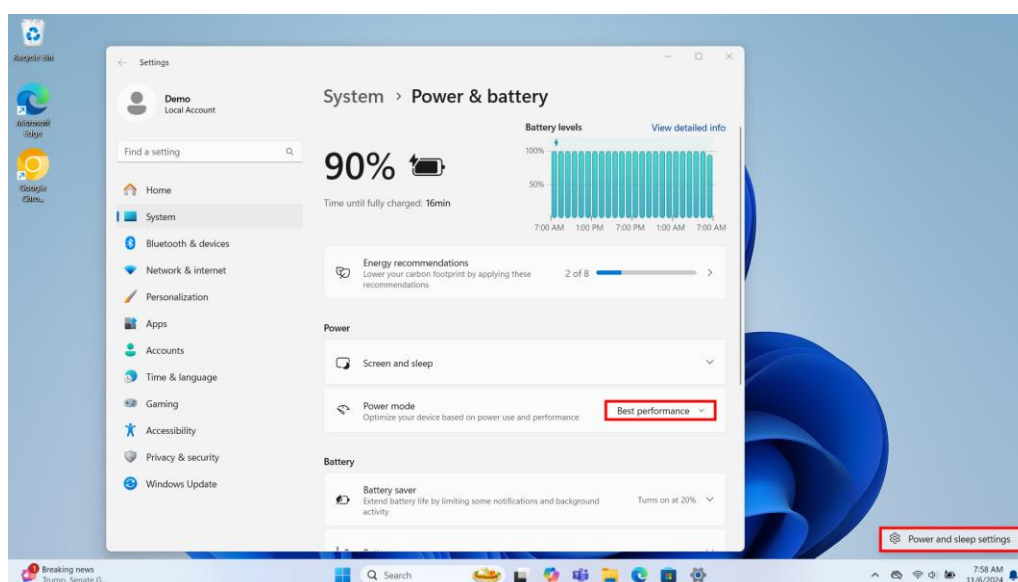
To create share drives so vKey can communicate with your Windows Host, you can select **vkey-vmware** on the side panel and click **Edit virtual machine settings -> Options -> Share Folders** and follow the wizard.



If you experience performance issues with VMware, the following steps can help to improve the performance.

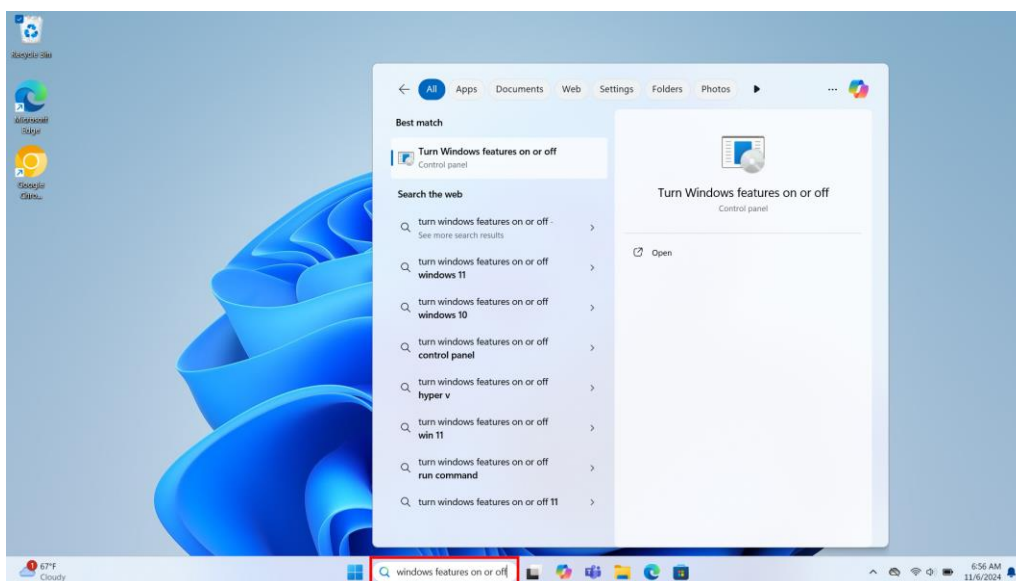
If you are using a laptop, plugging it in and setting the power management to **Best performance** mode can help improve VMware performance.

You can access the **Power and sleep settings** by right-clicking the battery icon in your Windows taskbar.



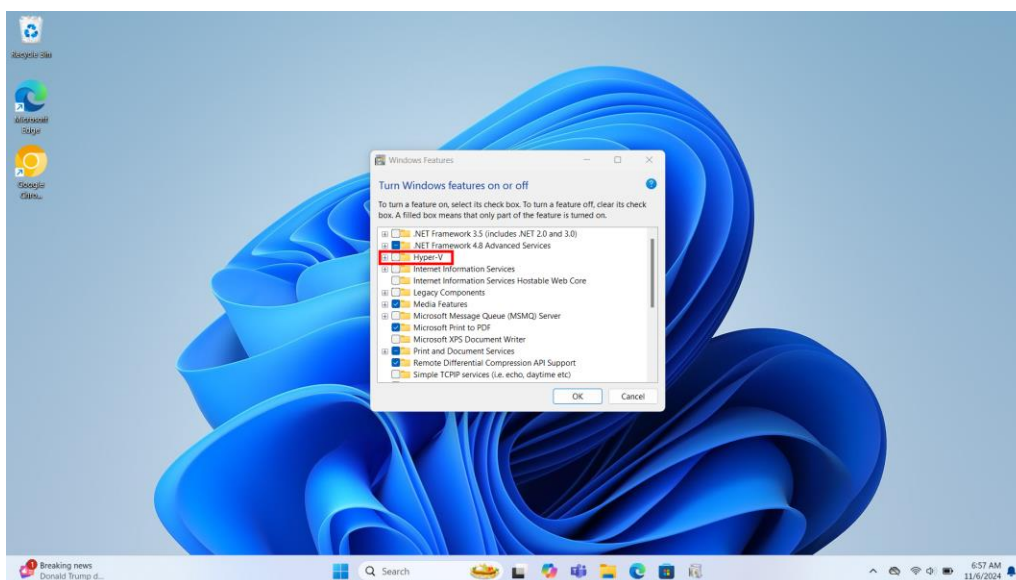
Users should disable Hyper-V on their machine, as it is known to conflict with VMware hypervisor.

To disable or verify Hyper-V is disabled, search **Turn Windows features on or off** in the search bar beside the **Windows** menu key.



Ensure the Hyper-V option is disabled (unchecked), if the option is previously checked, unchecking the option will require you to restart the computer.



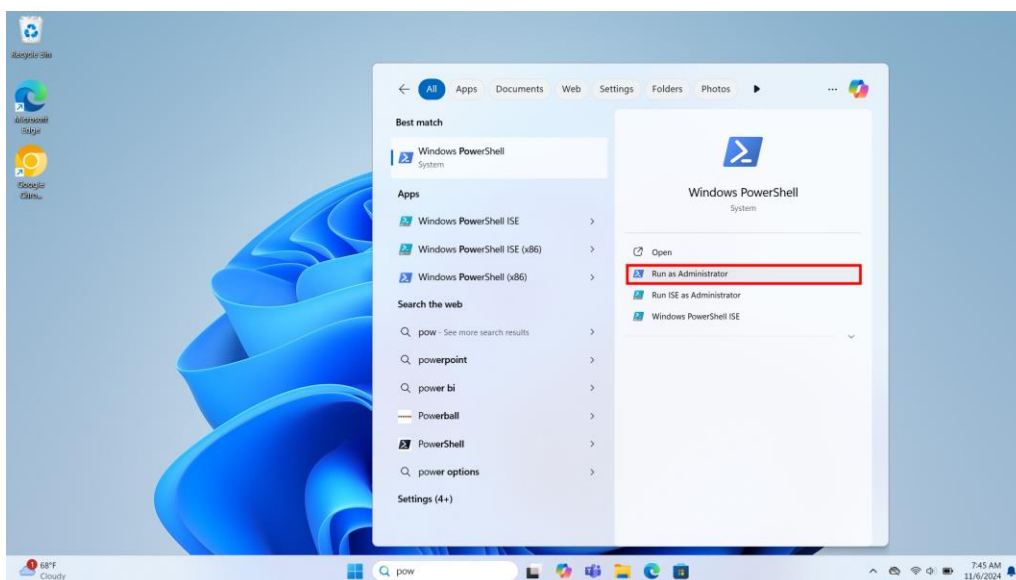


Users are recommended to run the following command as administrator to turn of CPU power throttling on vmware. It is known to cap CPU usage of the program, causing the VM to run slow:

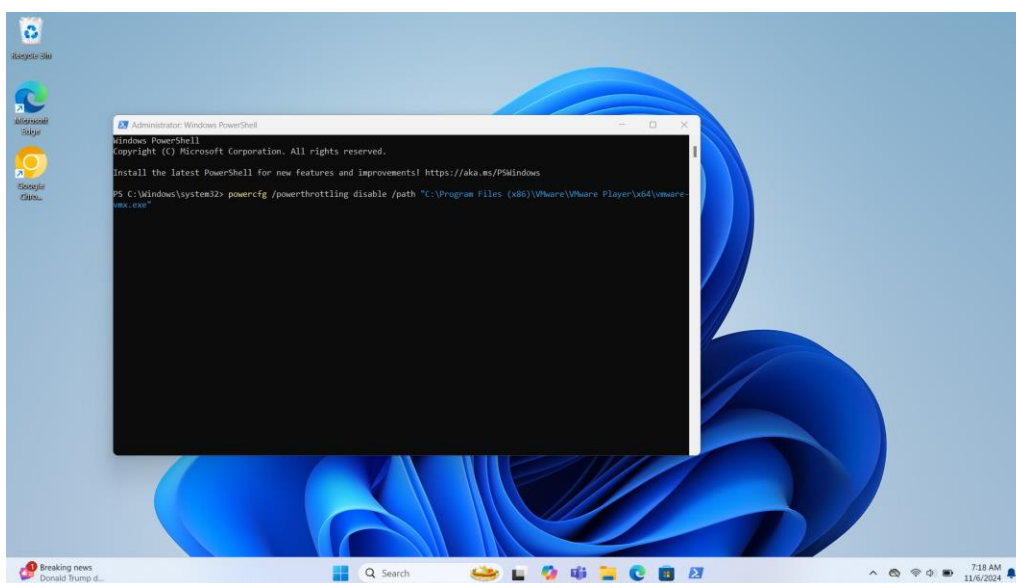
**powercfg /powerthrottling disable /path "C:\Program Files (x86)\VMware\VMware Player\x64\vmware-vmx.exe"**

Search 'Powershell' in the search bar beside the Windows menu key. Make sure to run the **Powershell** as an administrator.





Enter the command mentioned and hit Enter.



# About DLS

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DLS Technology is a leading provider of Cybersecurity, Cloud Computing, Infrastructure and Virtualization Integration Solutions and IT Consulting services, product research and development for both public and private sector clients. DLS Technology designs, deploys, and supports end-to-end secure enterprise and workspace solutions, including DLS' patented vKey Endpoint Cybersecurity solution. Since 2000, DLS has delivered hundreds of enterprise level projects that have reduced client's Total Cost of Ownership by an estimated 40% and has accelerated client's productivity by an estimated 500%. Visit [www.dlstech.com](http://www.dlstech.com) and [www.vkey.ca](http://www.vkey.ca).

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