

NComputing LEAFOS

Getting Started Guide

Contents

NComputing LEAFOS.....	1
Getting Started Guide	1
Prerequisites	2
Bootting to the LEAFOS USB Stick	2
Connecting to Wi-Fi	3
Activating LEAFOS Software.....	4
Optional Setup and Configuration Topics	5
Accessing LEAFOS Settings UI	5
The About UI	6
Password Protection	7
Configuring VPN	8
Configuring USB Peripherals	9
Configuring Local Applications.....	10
Connecting LEAFOS to NComputing's PMC Endpoint Manager	11
Installing LEAFOS to the Hard Drive	12
Connection Options	13
Selecting Device Operation Mode	13
VPN.....	14
NComputing's vSpace Pro Software	14
NComputing's VERDE VDI Software.....	15
Microsoft Remote Desktop Services.....	15
Microsoft's Azure Virtual Desktop (AVD) and Cloud PC	16

Prerequisites

Download the last LEAFOS software from the NComputing website.

Use a 3rd party tool (e.g., [Rufus](#)) to flash the LEAFOS software to create a bootable USB stick.

Note: LEAFOS can also be flashed to the hard disk of your PC or laptop. This approach wipes out any previously installed OS.

Booting to the LEAFOS USB Stick

Power off your PC or laptop.

Plug in the USB stick that has the LEAFOS software.

Power on your PC or laptop.

If LEAFOS software is booted then proceed to the

Connecting to Wi-Fi section.

If the current OS on your PC or laptop is loaded then you will need to configure your computer so that it boots to the LEAFOS USB Stick.

You can quickly change the boot sequence of your computer. Alternatively, you can access the BIOS of your computer to permanently change the boot sequence.

Please review [LEAFOS Live Boot Quick Start Guide](#) starting on page 3, section LEAFOS LIVE BOOT FROM USB FLASH DRIVE for more details.

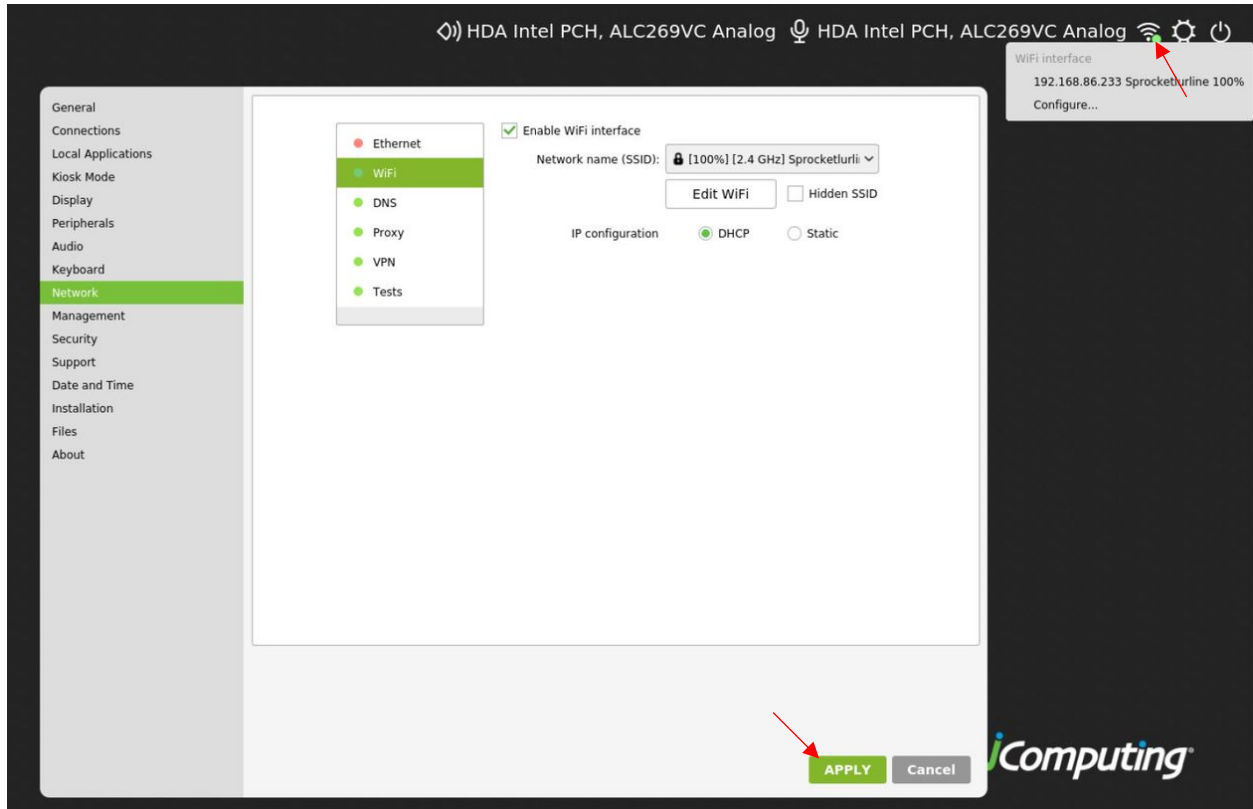
Note: The LEAFOS image is provided in a compressed format. The first time boot sequence includes a process that decompresses the image. This only occurs during the first time boot. Depending on your PC or laptop it may take up to 2 minutes to complete the decompression step. During this time you will see a blank screen. Please wait until the decompression has completed.

Note: If there is no USB stick in your USB port then your PC or laptop will boot to the hard drive for normal operation.

Connecting to Wi-Fi

You can skip this step if your PC or laptop is connected to the network using an ethernet cable.

To enable WiFi connectivity hover over the WiFi icon found at the top of the LEAFOS UI then click Configure...



This displays the WiFi connection UI as shown above.

Select the appropriate connection options and click the APPLY button.

If you clicked on WiFi then select your WiFi SSID name from the Network Name dropdown then click Edit WiFi to enter connection credentials.

Activating LEAFOS Software

To unlock the full functionality of LEAFOS you must activate the software with a License Key provided by NComputing.

When LEAFOS boots it detects if it has already been activated. If it has not been activated you will see the following UI prompt:



The image shows a software activation window titled "LEAFOS(X86) ACTIVATION". At the top is the NComputing logo. Below the title, a message states: "To enable full functionality this device requires activation." Below this, it says "Please enter your license key:" followed by four empty rectangular boxes separated by hyphens. At the bottom center is a button labeled "Activate".

Enter the License Key provided to you by NComputing and click the Activate button.

Note: You must activate LEAFOS to connect to Microsoft AVD, Cloud PC and RDS. Activation also unlocks access to locally installed applications such as the Chromium browser, Teams and Zoom.

You are now ready to use the full functionality of LEAFOS.

See below for optional setup and configuration topics.

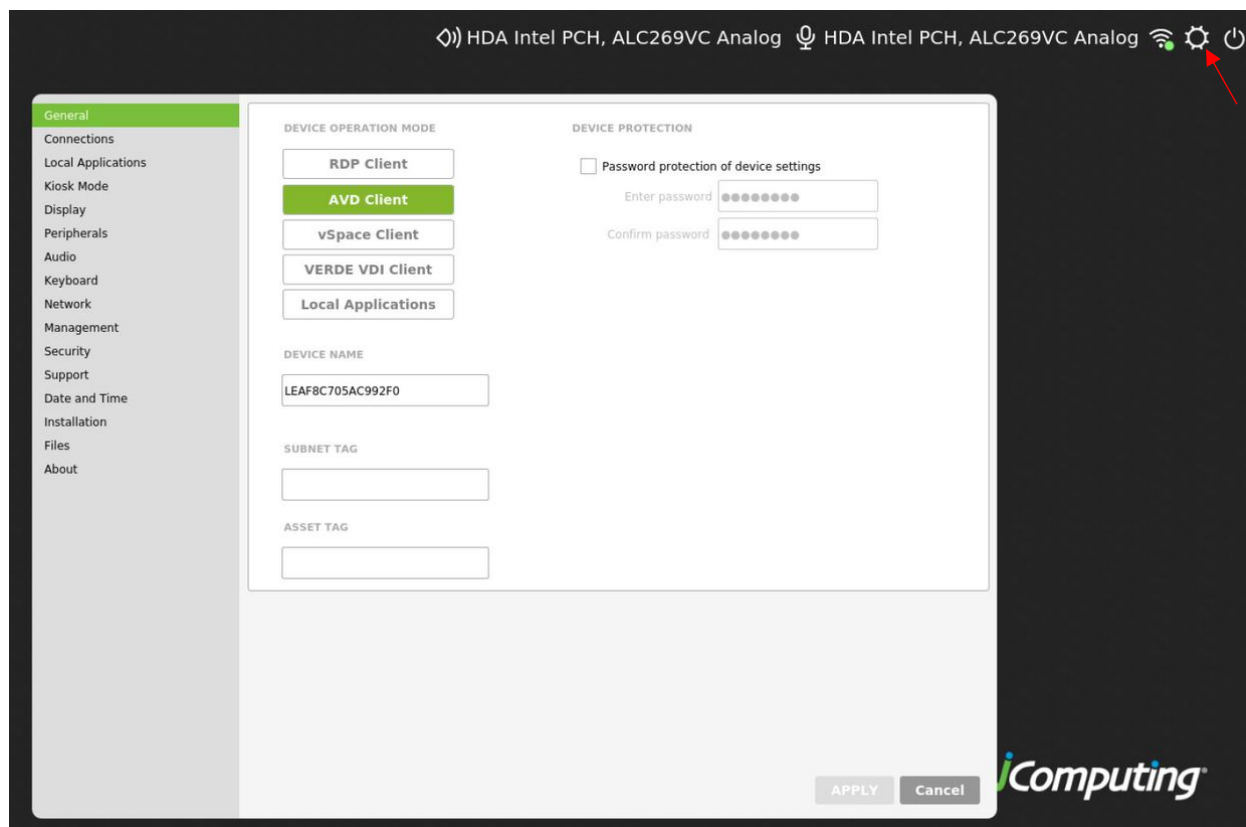
Optional Setup and Configuration Topics

Accessing LEAFOS Settings UI

The LEAFOS Settings UI allows you to configure your installation. The admin can either configure LEAFOS device setting locally or remotely via PMC Endpoint Manager.

Most of the topics described below require the Settings UI.

You can open the Settings UI at any time by clicking on the gear icon in the top right of the LEAFOS UI:

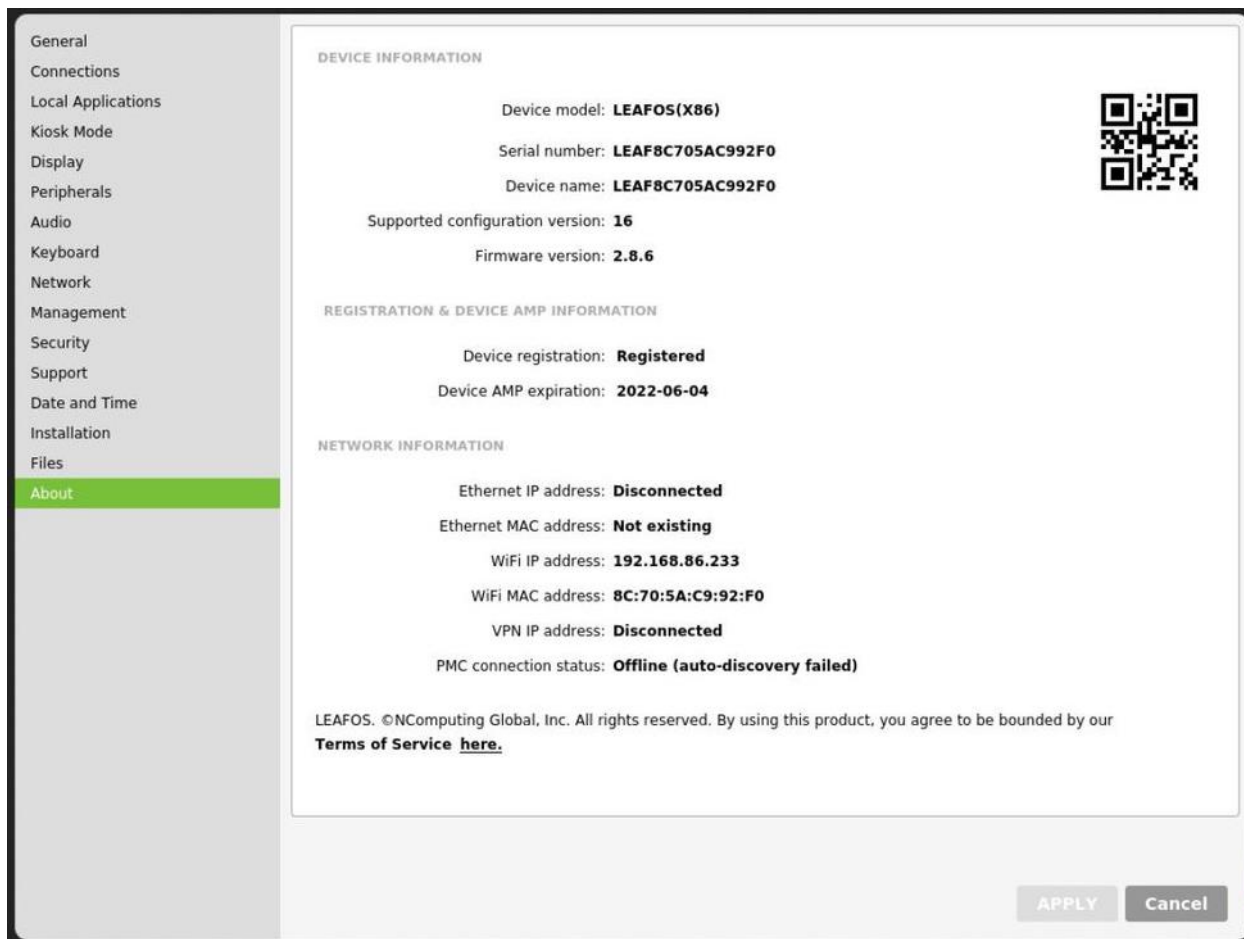


The gear icon opens the Settings UI preset to the General tab as shown above.

Note: The SUBNET TAG shown in the above screenshot can be very useful for automatically assigning devices to PMC groups. Please reference [How to use 'Subnet Tags' to assign devices to groups in PMC](#) for more details.

The About UI

From the Settings UI click the About menu option to display the following:



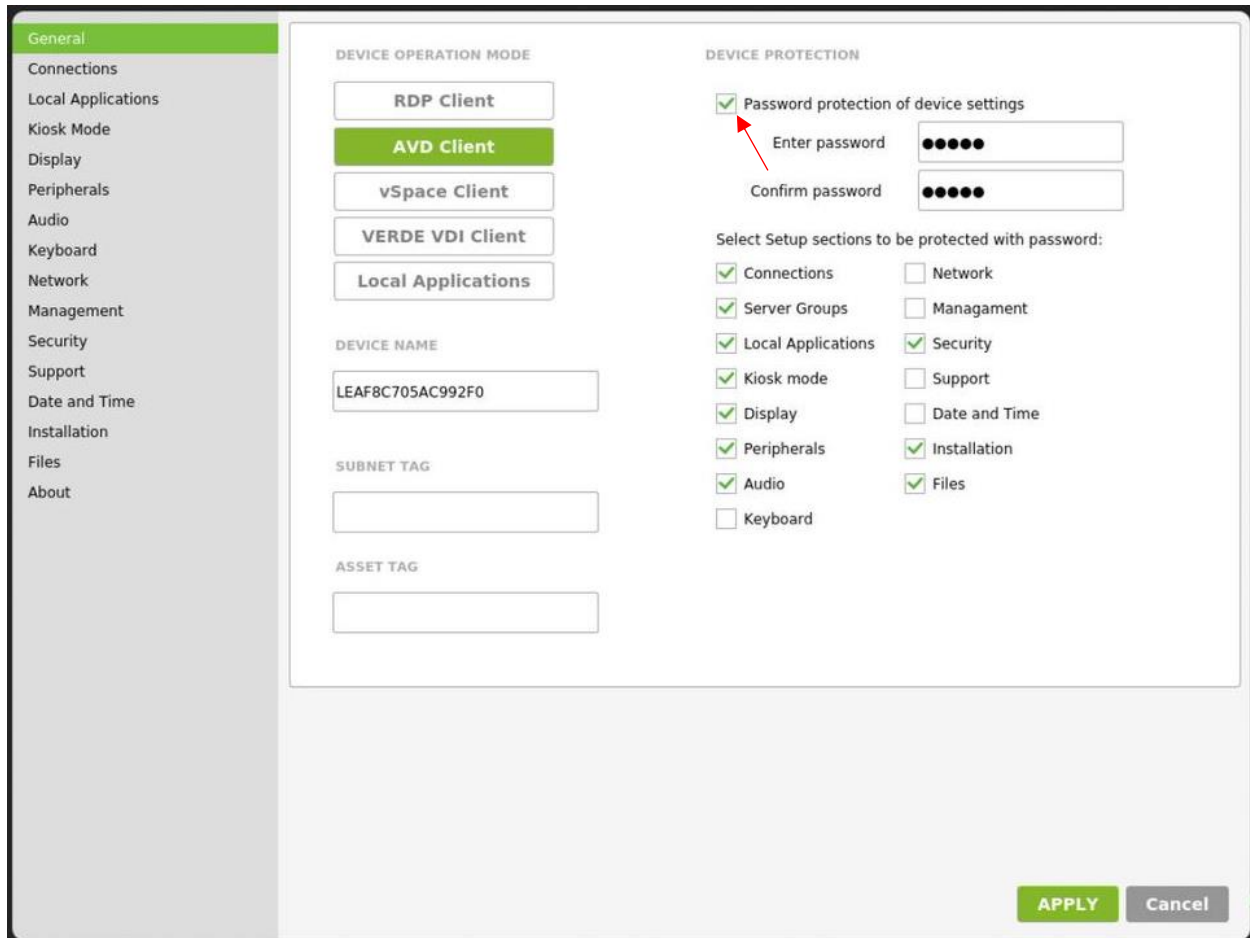
This displays important information about your LEAFOS software including the unique serial number, registration status, networking details and version number.

Password Protection

Password protection can be enabled to restrict access to some or all of the settings menu options.

This helps to prevent accidental changes to settings that may affect the functionality of LEAFOS.

The General tab includes this option:



The screenshot shows the LEAFOS General settings interface. On the left is a sidebar with a list of settings categories: General, Connections, Local Applications, Kiosk Mode, Display, Peripherals, Audio, Keyboard, Network, Management, Security, Support, Date and Time, Installation, Files, and About. The 'General' tab is selected and highlighted in green. The main content area is divided into two sections: 'DEVICE OPERATION MODE' and 'DEVICE PROTECTION'. Under 'DEVICE OPERATION MODE', there are five buttons: 'RDP Client', 'AVD Client' (which is highlighted in green), 'vSpace Client', 'VERDE VDI Client', and 'Local Applications'. Below these are three text input fields: 'DEVICE NAME' (containing 'LEAF8C705AC992F0'), 'SUBNET TAG', and 'ASSET TAG'. The 'DEVICE PROTECTION' section has a checkbox labeled 'Password protection of device settings' which is checked. A red arrow points to this checkbox. Below the checkbox are two password input fields: 'Enter password' and 'Confirm password', both containing masked characters. Below these is a section titled 'Select Setup sections to be protected with password:' followed by two columns of checkboxes. The first column has checked boxes for 'Connections', 'Server Groups', 'Local Applications', 'Kiosk mode', 'Display', 'Peripherals', and 'Audio'. The second column has unchecked boxes for 'Network', 'Management', 'Support', 'Date and Time', 'Installation', and 'Files'. At the bottom right of the settings area are two buttons: 'APPLY' (highlighted in green) and 'Cancel'.

Click the “Password protection of device settings” checkbox and enter the desired password.

You can select 1 or more of the sections as shown.

After clicking the APPLY button then access to the checked sections will require the password that you defined.

Configuring VPN

LEAFOS supports common VPN connection options.

Click on the Network menu option then select VPN:

The screenshot shows the LEAFOS configuration interface. On the left is a sidebar menu with the following items: General, Connections, Kiosk Mode, Display, Peripherals, Audio, Keyboard, Network (highlighted in green), Management, Security, Support, Date and Time, Installation, and About. A red arrow points to the 'Network' menu item. The main content area displays the 'VPN' configuration page. At the top left of this page is a sub-menu with 'Ethernet', 'WiFi', 'DNS', 'Proxy', 'VPN' (highlighted in green), and 'Tests'. A red arrow points to the 'VPN' sub-menu item. The main configuration area includes a checkbox for 'Enable VPN connection' which is checked. Below this is a 'VPN type:' dropdown menu with options: OpenVPN, OpenConnect (highlighted in green), PPTP, IPSec, and FortiClient SSL VPN. There are four unchecked checkboxes: 'Let user provide .ovpn and c...', 'Let user provide VPN username and password', 'Let user provide VPN client certificate password', and 'Re-use VPN credentials for terminal sessions'. Below these are input fields for 'VPN server address:', 'Credentials type:' (set to 'Username and password'), 'User name:', 'User password:', 'CA certificate:', 'Client certificate:', and 'Client certificate password:'. An 'Advanced Options' button is located below the 'Client certificate password' field. At the bottom right of the interface are 'APPLY' and 'Cancel' buttons.

Select your VPN type and enter the information provided by your IT admin.

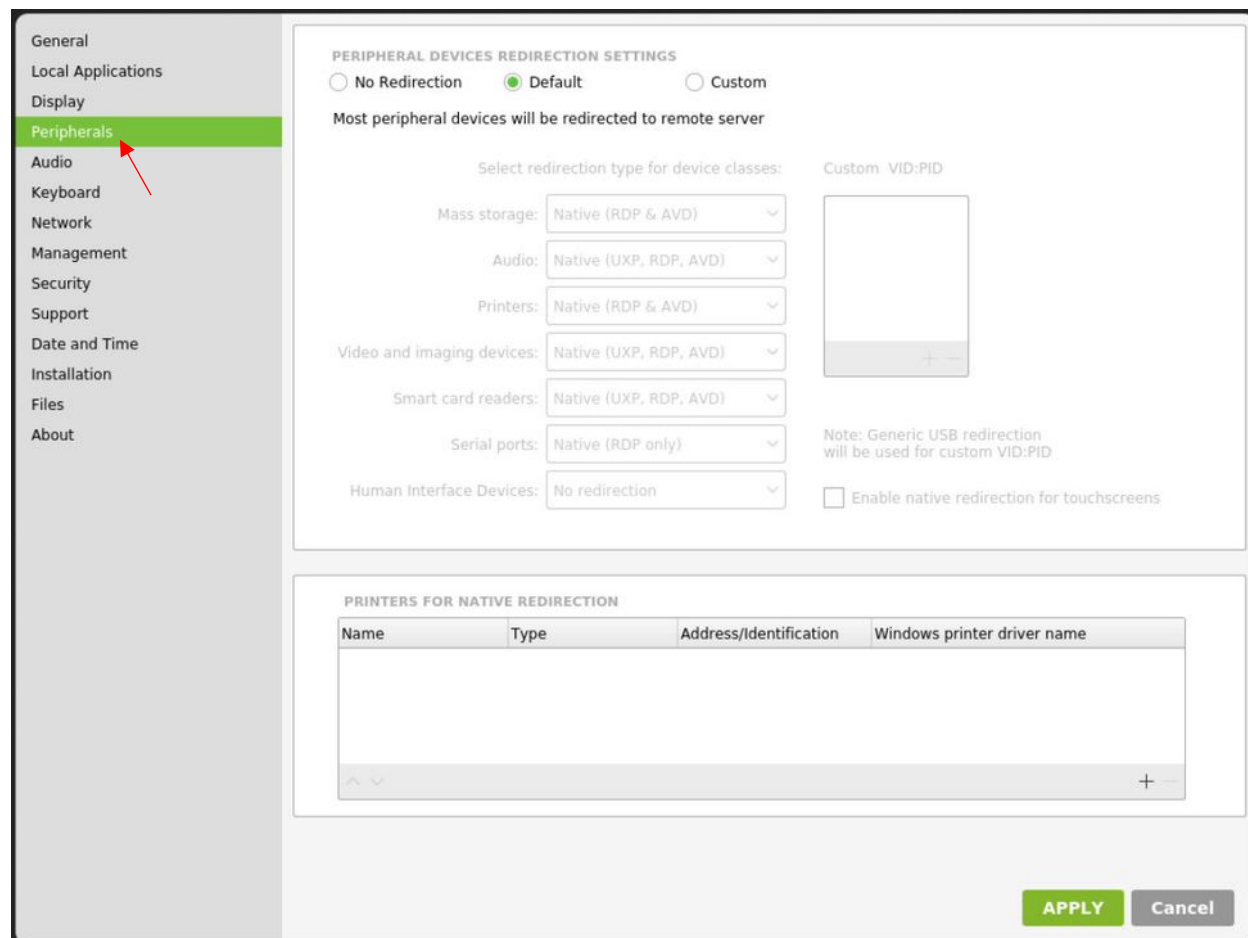
Click the APPLY button to save the changes.

Configuring USB Peripherals

LEAFOS supports most USB devices such as headsets, printers, smart card readers and more.

You can configure USB peripheral support by clicking on the Peripherals menu option:

The default setting is the most optimized configuration. If there are some special peripheral devices which can't be recognized in LEAFOS, then you customize the peripheral redirection setting.



PERIPHERAL DEVICES REDIRECTION SETTINGS

☐ No Redirection
 ☒ Default
 ☐ Custom

Most peripheral devices will be redirected to remote server

Select redirection type for device classes:

Mass storage: Native (RDP & AVD)
 Audio: Native (UXP, RDP, AVD)
 Printers: Native (RDP & AVD)
 Video and imaging devices: Native (UXP, RDP, AVD)
 Smart card readers: Native (UXP, RDP, AVD)
 Serial ports: Native (RDP only)
 Human Interface Devices: No redirection

Custom VID:PID

Note: Generic USB redirection will be used for custom VID:PID

☐ Enable native redirection for touchscreens

PRINTERS FOR NATIVE REDIRECTION

Name	Type	Address/Identification	Windows printer driver name
+ -			

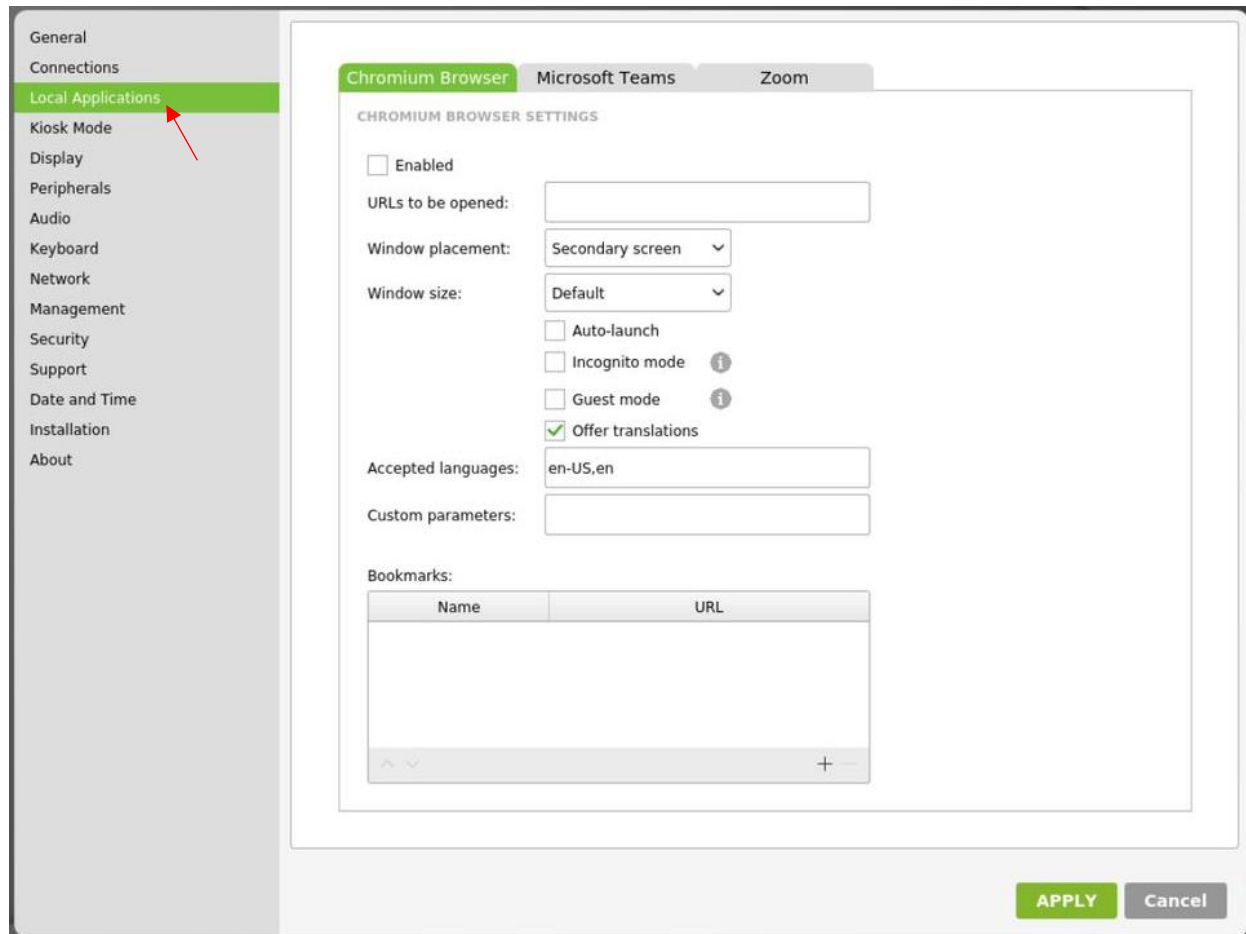
APPLY **Cancel**

Click the APPLY button to save the changes.

Configuring Local Applications

LEAFOS comes with pre-installed local applications such as a Chromium Browser, Microsoft Teams and Zoom conferencing software.

Click the Local Applications menu option to access the configuration options for these local applications:



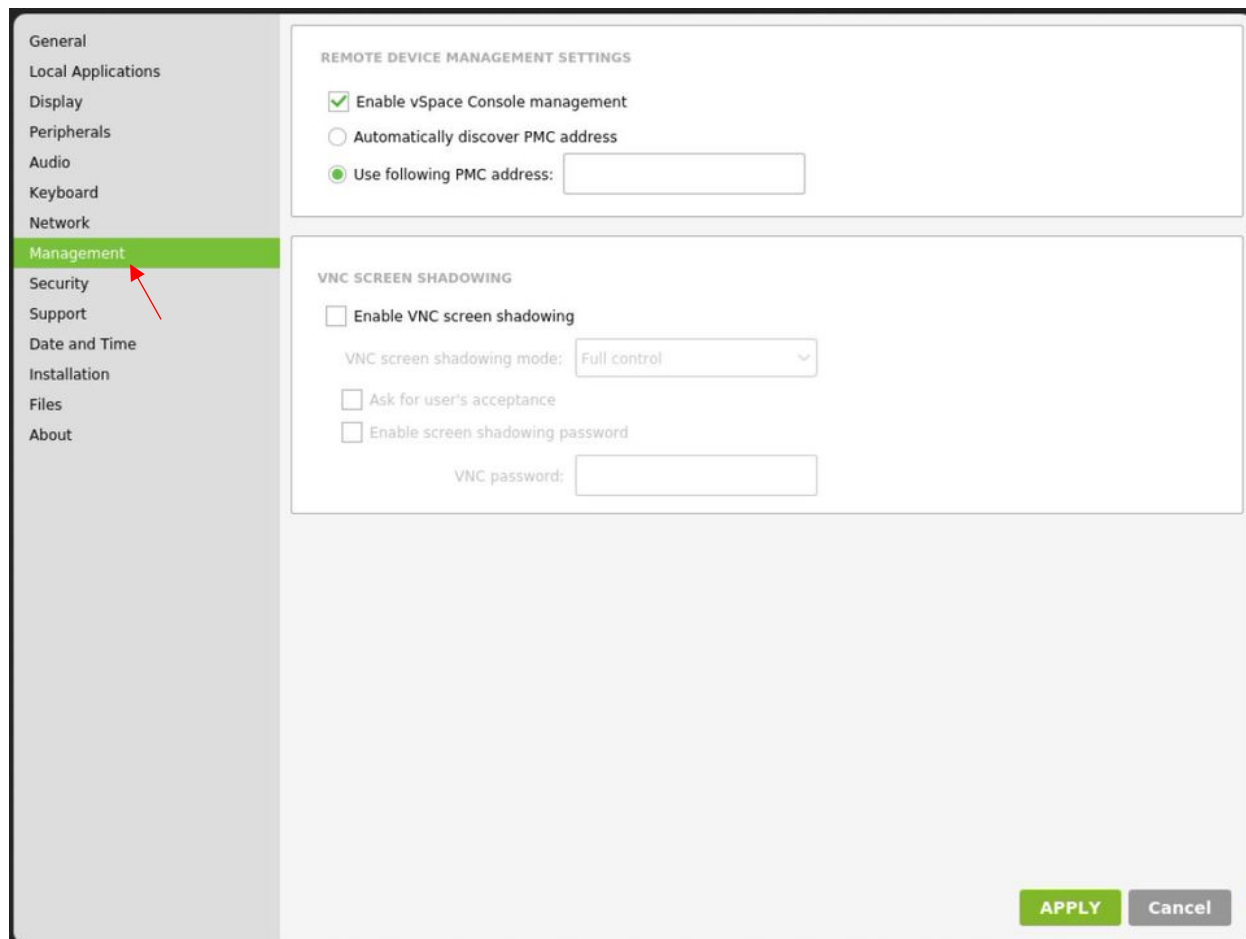
Access to each application can be enabled or disabled.

Additional configuration options are available for each application.

Click the APPLY button to save the changes.

Connecting LEAFOS to NComputing's PMC Endpoint Manager

If your organization has deployed PMC then you will need to configure LEAFOS using the Settings UI:



General
Local Applications
Display
Peripherals
Audio
Keyboard
Network
Management
Security
Support
Date and Time
Installation
Files
About

REMOTE DEVICE MANAGEMENT SETTINGS

☒ Enable vSpace Console management
☐ Automatically discover PMC address
☒ Use following PMC address:

VNC SCREEN SHADOWING

☐ Enable VNC screen shadowing
VNC screen shadowing mode:
☐ Ask for user's acceptance
☐ Enable screen shadowing password
VNC password:

APPLY Cancel

Click the Management option as shown above.

Your IT admin should provide you with the preferred REMOTE DEVICE MANAGEMENT SETTINGS option and PMC address.

After completing this setup click the APPLY button.

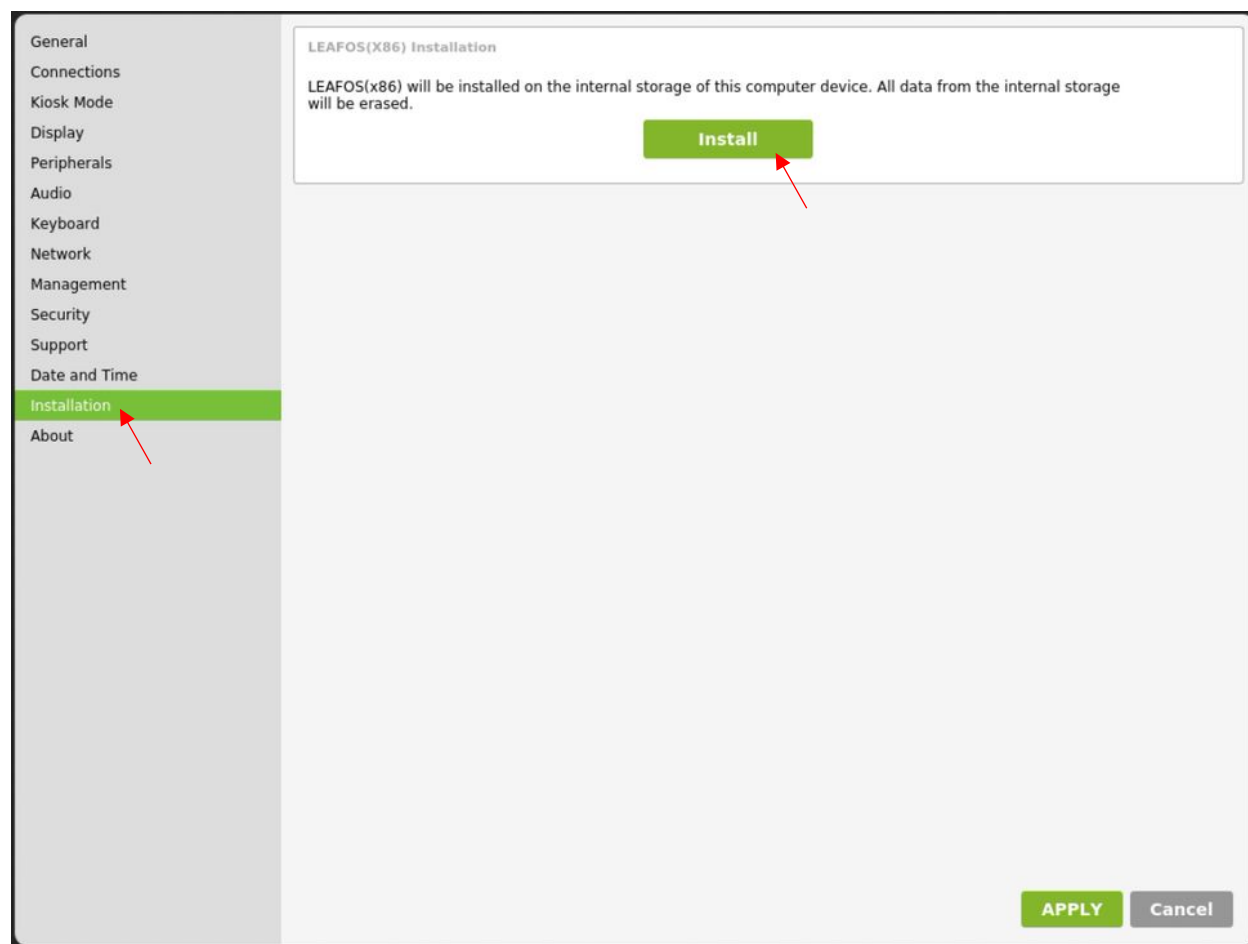
Installing LEAFOS to the Hard Drive

You can install LEAFOS on to the hard drive of your PC or laptop.

The benefit is faster booting and performance and eliminates the need to carry the USB stick with you.

IMPORTANT NOTE: *Performing this action will erase all content on the hard drive of your PC or laptop. LEAFOS will be installed as the OS of the PC or laptop.*

To start the hard drive installation, click on the Installation menu option:



Then click on the Install button shown above. You will be prompted to confirm the action before proceeding.

Connection Options

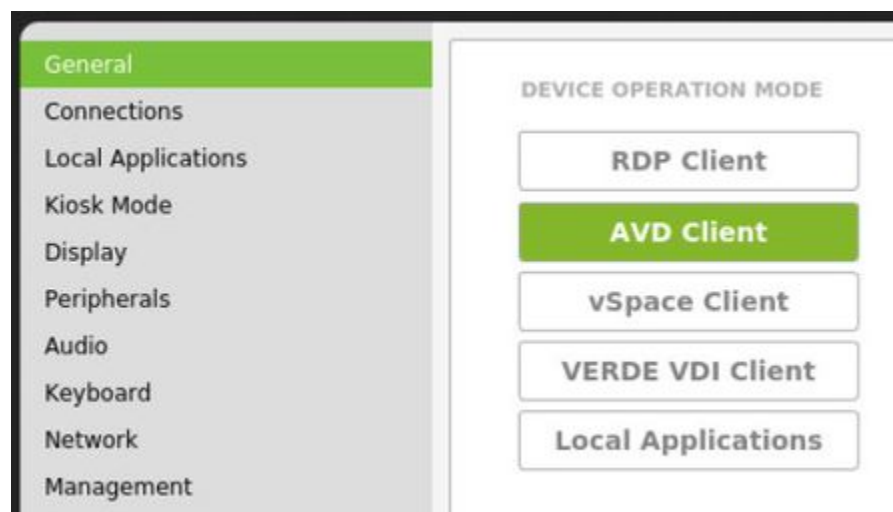
This section describes the different connection options available from LEAFOS.

Selecting Device Operation Mode

LEAFOS supports several different types of connection options including:

- VPN
- NComputing's vSpace Pro Software
- NComputing's VERDE VDI Software
- Microsoft's Remote Desktop Services (RDS)
- Microsoft's Azure Virtual Desktop (AVD) (formerly known as WVD)
- Microsoft's Cloud PC (use AVD)

Use the Device Operation Mode found in the General settings tab to select your desired connection mode option:



VPN

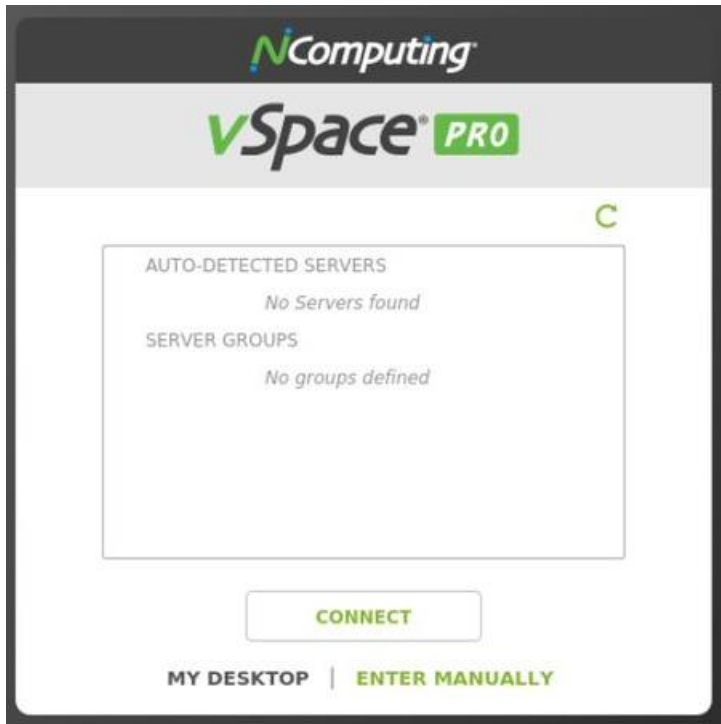
If you have configured LEAFOS to connect using VPN (see [Configuring VPN](#)) you may be prompted to authenticate to your VPN network:



The image shows a dialog box titled "NComputing VPN Connection". It features a shield icon with a key and the text "VPN". Below the title, it displays "VPN server: testvpn.ncomputing.com". There are two input fields: "VPN Username" and "VPN Password". At the bottom, there are two buttons: "Connect VPN" and "Skip VPN".

NComputing's vSpace Pro Software

Select the Device Operation Mode to vSpace Client. LEAFOS will use the vSpace Pro login UI:



The image shows the "NComputing vSpace PRO" login interface. It has a header with the "NComputing vSpace PRO" logo. Below the header, there is a green "C" icon. The main content area is titled "AUTO-DETECTED SERVERS" and displays "No Servers found". Below this, it is titled "SERVER GROUPS" and displays "No groups defined". At the bottom, there is a "CONNECT" button and a link to "MY DESKTOP | ENTER MANUALLY".

This allows you to connect to a session hosted by NComputing's vSpace Pro software.

NComputing's VERDE VDI Software

Select the Device Operation Mode to VERDE VDI Client. LEAFOS will use the VERDE VDI login UI:



The image shows the NComputing VERDE login interface. At the top, there is a header with the NComputing logo and the word 'verde' in a large, stylized font. Below the header, there is a dropdown menu with 'verde.ncomputing.com' selected. Underneath the dropdown are four input fields: 'Username', 'Password', and 'Domain'. At the bottom of the form is a green button labeled 'LOGIN'.

This allows you to authenticate to NComputing's VERDE VDI software.

After successful authentication, depending on how your IT admin has setup VERDE VDI, you will be automatically connected to your VERDE VDI desktop or presented with a list of provisioned VERDE VDI desktops.

Microsoft Remote Desktop Services

Select the Device Operation Mode to RDP Client. LEAFOS will use the RDP login UI:

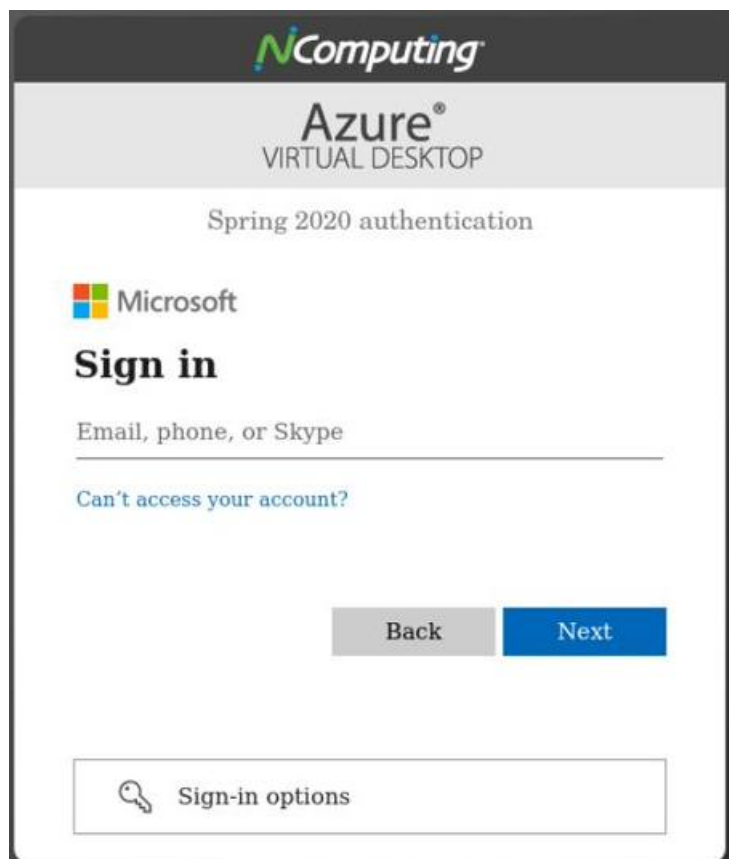


The image shows the NComputing Remote Desktop Connection interface. At the top, there is a header with the NComputing logo and the text 'Remote Desktop Connection' next to a small icon of a monitor and a play button. Below the header, there is a dropdown menu with 'RD Session Host' selected. Underneath the dropdown are four input fields: 'Username', 'Password', and 'Domain'. At the bottom of the form is a green button labeled 'CONNECT'.

Microsoft's Azure Virtual Desktop (AVD) and Cloud PC

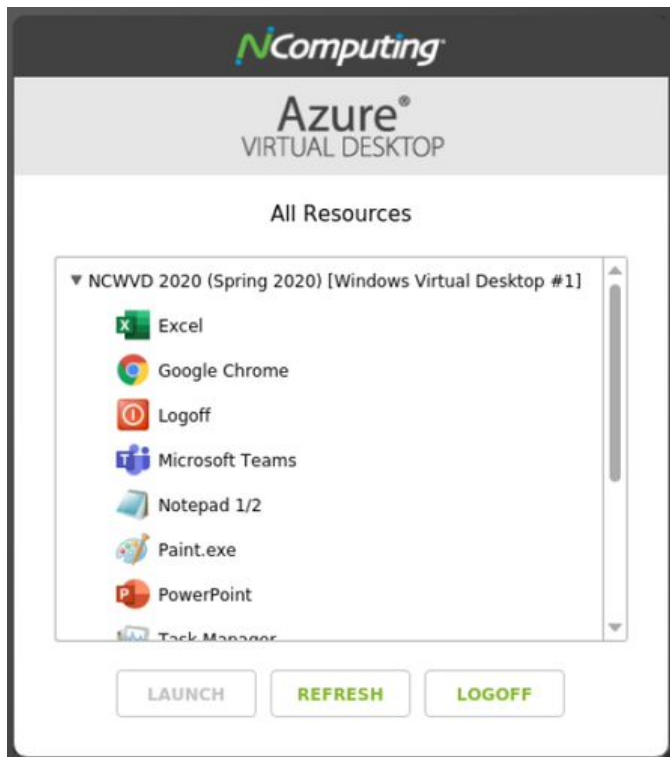
Note: NComputing has compiled an extensive list of recommendations and tips related to Microsoft AVD. Please reference our [Microsoft Azure Virtual Desktop \(AVD\) Quick Start Guide](#).

Select the Device Operation Mode to AVD Client. LEAFOS will use the Azure Virtual Desktop I login UI:



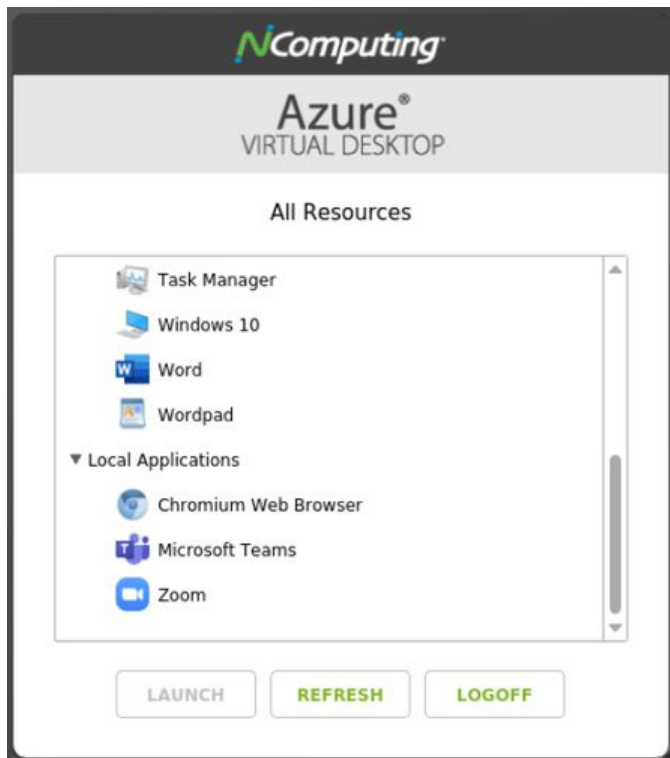
This allows you to authenticate to Microsoft's AVD or Cloud PC.

You then can select from the resources assigned to you by your IT admin.



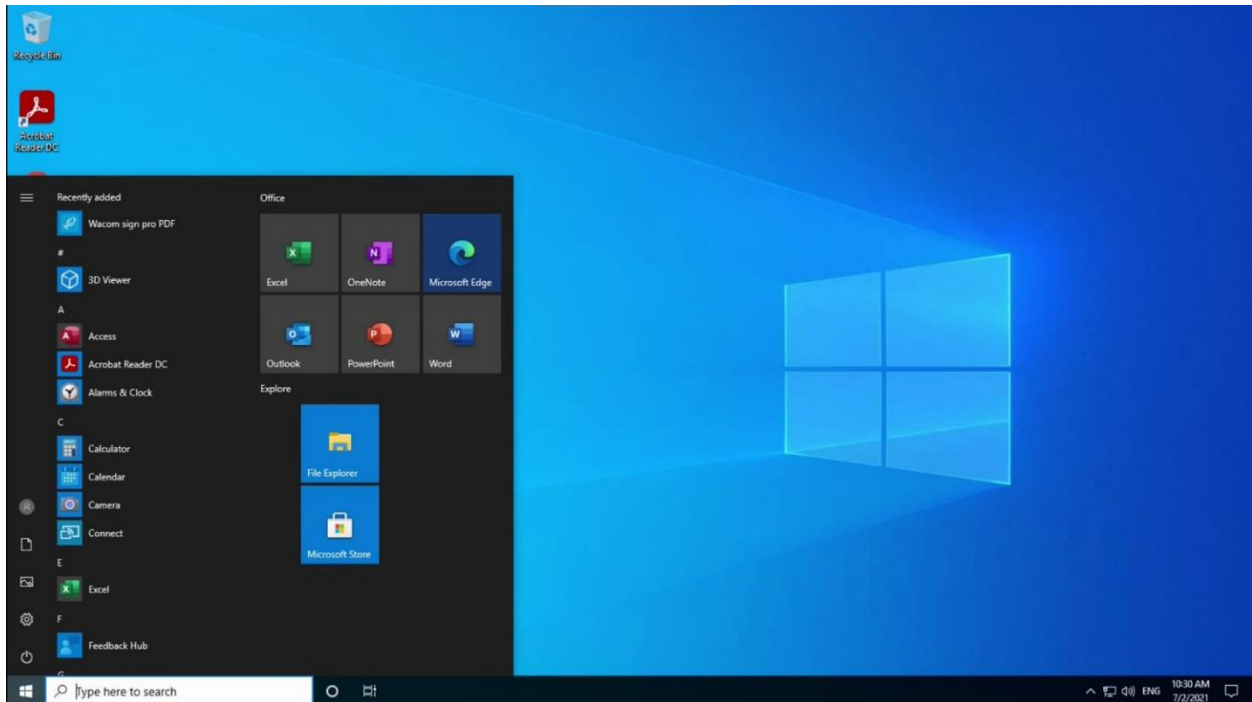
AVD Resources and Local Application Selection

LEAFOS comes with several native applications pre-installed.



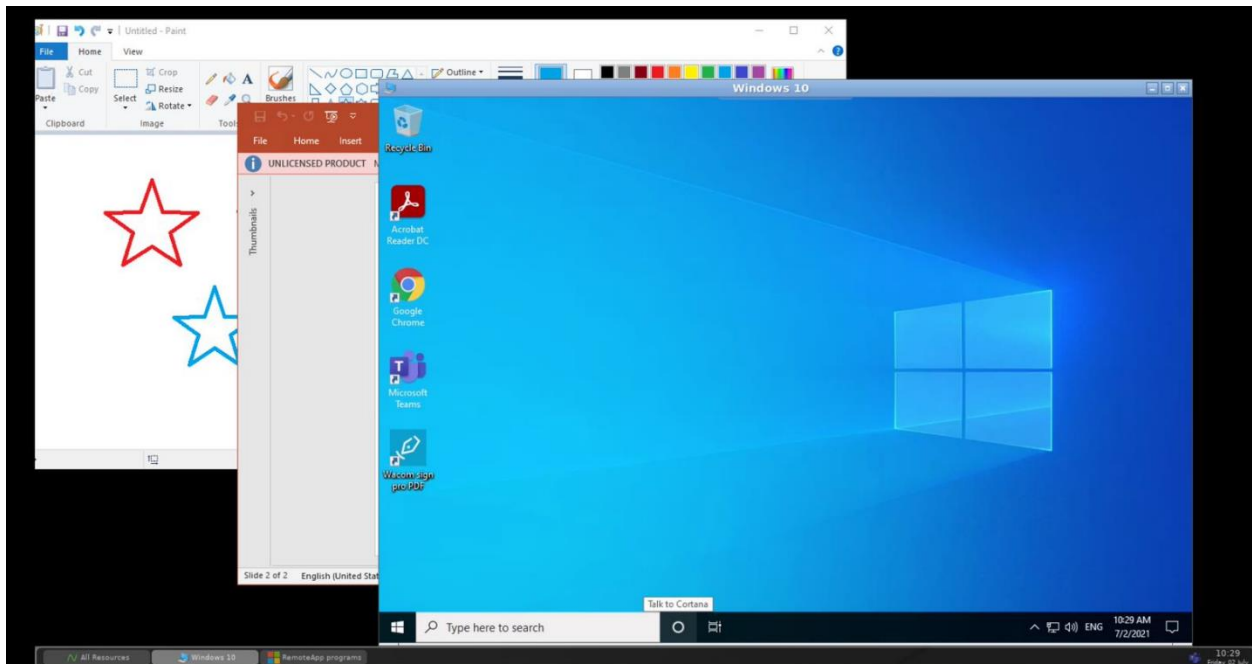
After authenticating to AVD you can select from cloud-based resources or one of the pre-installed local applications.

AVD or Cloud PC Full Screen Desktop



AVD or Cloud PC Desktop and Remote App Multi-tasking

LEAFOS permits multi-tasking by using the familiar taskbar and window-mode operation:



AVD or Cloud PC Desktop and Local Microsoft Teams Multi-tasking

LEAFOS permits multi-tasking by using the familiar taskbar and window-mode operation:

