**C:\Program Files\Microsoft Office\MEDIA\CAGCAT10\j0285750.wmf**

**User Manual**

**OrchestraOS**

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**Date:** 09/08/2023

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# INTRODUCTION

Thank you for getting OrchestraOS! This manual will guide you through how to get started with OrchestraOS and access its features. You would not need an internet connection for the setup and usage of OrchestraOS.

# SETUP

This section of the manual will describe how to connect to OrchestraOS from your device. You would have registered as a user for OrchestraOS with your username and password information. The password will be the secret access key assigned to you by the IT administrator. Please contact our IT Administrator for help at (979) 234-5678 if you face any issues accessing this information.

## Connecting to OrchestraOS

1. Go to the search bar on your laptop and type ‘Remote Desktop Connection’ and run the application. This will open a popup as shown below.

A screenshot of a computer

Description automatically generated

1. Insert the IP address of OrchestraOS you are connecting to in the text box labelled ‘Computer:’ and click on ‘Show Options’ as shown above.
2. Add your login username in the ‘User name:’ text box and click ‘Connect’ as labelled below.

A screenshot of a computer

Description automatically generated

4. Once you have clicked ‘Connect’, your operating system will display another popup. Add your secret access key in the password text box below and click OK.

A screenshot of a computer screen

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5. You may receive a warning from your device that the identity of the remote computer cannot be verified. This happens because your device is connecting with a remote client for the first time and does not recognize it. Click the ‘Yes’ button at the bottom right to proceed.

A screenshot of a computer error message

Description automatically generated

6. You will be successfully connected to the remote computer! Ensure that the public IP address matches the one you connected with in Step 2. If you face any issues, please contact the IT administrator for help.

A screenshot of a computer

Description automatically generated

# APPLICATIONS

All the applications in OrchestraOS do not require Internet access and come installed. You may proceed to the specific section of the application you would like to use.

## PDF Viewer

If you download any PDF files on the remote computer from the Internet, you will need an application to open PDFs without accessing the Internet. OrchestraOS comes installed with SodaPDF, an application to view and read PDF files quickly and easily.

1. Click on the Soda PDF Desktop 14 shortcut icon on the Desktop. This will open the application as shown below.

**A screenshot of a computer

Description automatically generated**

1. Click ‘Open PDF’ inside the application window and select the PDF file you want to open.

A screenshot of a computer

Description automatically generated

1. This will open your file in view mode, which is read-only. You can learn more about the different view options at your convenience on www.sodapdf.com.

A screenshot of a computer

Description automatically generated

## IDE and Compiler

OrchestraOS comes with Visual Studio Code (VS Code) as the Integrated Development Environment, allowing you to create, access, edit and compile code files from the remote desktop. OrchestraOS also comes with a C++ compiler called MingW that comes with g++. This section will demonstrate how to create a C++ language file in VS Code and compile it using g++ and MingW.

1. Click the ‘Visual Studio Code’ shortcut icon on the Desktop. This will launch VS Code.

A screenshot of a computer

Description automatically generated

1. Click on the ‘New File’ button under the Start Menu and select Text File on the top bar as shown.

A screenshot of a computer program

Description automatically generated

1. Click on ‘Select a language’ and select the language mode as ‘C++ (cpp)’ as highlighted below.

A computer screen shot of a black screen

Description automatically generated

1. Once you have created a C++ file, write your C++ program inside the file. For demonstration purposes, we will be writing a C++ program that will output ‘Hello World’.

A screen shot of a computer

Description automatically generated

1. Save the file using an appropriate file name in your file directory. Notice that the file directory of the remote computer will be different from your local device. For demonstration purposes, the file is saved as ‘helloworld.cpp’ in the Desktop folder.

A screenshot of a computer

Description automatically generated

1. Open up Windows PowerShell as the command line using the search bar as shown.

A screenshot of a computer

Description automatically generated

1. In the PowerShell, type the ‘cd’ command followed by the folder name to navigate where you saved the C++ file. Consequently, type ‘g++’ followed by the name of the C++ file and press Enter to compile the file using g++ and MingW.

A screenshot of a computer

Description automatically generated

1. By default, the compiled file will be saved as ‘a’ in your Desktop. Run the file using ‘./’ followed by the name of the compiled file (which is ‘a’). The PowerShell will show the output of the program as ‘Hello World’.

A screen shot of a computer screen

Description automatically generated

## Code Editor

OrchestraOS comes with NotePad++ as the code editor. This allows you to write code in multiple programming languages and save to your file system within OrchestraOS.

1. Click on the NotePad++ shortcut desktop icon to open up a new file. For demonstration purposes, a Python file with a variable ‘name’ initialized as a string ‘My Name is Shreeman’ is created.

A computer screen shot of a computer

Description automatically generated

1. You can save the file by using the keyboard shortcut ‘Ctrl + S’ and save the file with the programming language file extension appended. The image below saves the Python file using the ‘.py’ extension in the Desktop folder.

A screenshot of a computer

Description automatically generated

## Document Editor

OrchestraOS comes with Word from Microsoft Office 365 as the document editor. The document editor supports creating, loading, editing, and saving documents within the file system in OrchestraOS.

1. Type ‘word’ in the Search Bar and open the Word application as shown below.

A screenshot of a computer

Description automatically generated

1. Click on the ‘Blank Document’ option to create a new document.

A screenshot of a computer

Description automatically generated

1. Type the text inside the Microsoft Word document. You can also explore other templates and features by visiting the Microsoft Office website.

A computer screen shot of a computer

Description automatically generated

# DISCONNECT FROM OrchestraOS

You can disconnect from OrchestraOS by clicking on the X button on the tab on the top and click OK on the popup shown below.

A screenshot of a computer

Description automatically generated

# ACKNOWLEDGEMENTS

The remote computer is a virtual machine created using Amazon Lightsail.

The template for the user manual was obtained from <https://www.docformats.com/instruction-manual-template/>.