

WHAT IS CLAIMED IS:

1. A system for accessing an application available from a data center of a program execution service, the system comprising:

a Program Execution Service (PES) comprising a number plurality of data centers, each data center including one or more physical computing systems configurable to execute one or more virtual desktop instances, each virtual desktop instance associated with a computing environment that includes an operating system configurable to execute one or more applications, each virtual desktop instance accessible by a computing device of a user of the PES via a network, the PES including an application marketplace accessible to search for one or more of the virtual desktop instances or one or more applications, the PES further comprising:

~~an application-access component configured to~~ a data center computer programmed to:

provide, to a user computing device associated with a user of the PES, access to the application marketplace for searching for an application to be executed by ~~the~~ a virtual desktop instance;

receive, by the application marketplace, a request from the user to access the application on ~~a~~ the virtual desktop instance from the user computing device;

access metadata associated with the user computing device, the metadata comprising information indicative of whether the user is authorized to access the application from the PES on the user computing device;

determine, based at least in part on the metadata, whether the user is authorized to access the application on the user computing device;

in response to determining that the user is authorized to access the application on the user computing device, ~~;~~

cause the application to be executed from the virtual desktop instance; ~~and~~

provide, to the user computing device, access to at least a portion of the application from the virtual desktop instance; and

remove the portion of the application from the user computing device upon completion of a usage session for the application.

2. The system of claim 1, wherein the portion of the application comprises a user interface of the application.

3. The system of claim 1, wherein the portion of the application comprises an entire copy of the application.

4. The system of claim 1, wherein the ~~application access component~~data center computer is further ~~configured~~programmed to provide access to at least a portion of the application by streaming the virtual desktop instance to the user computing device.

5. The system of claim 1, wherein the metadata further comprises purchasing information indicative of whether the user has purchased, rented, or licensed the application from the application marketplace.

6. The system of claim 5, wherein the ~~application access component~~data center computer is further ~~configured~~programmed to send a notification to the user at an expiration of an application rental period notifying the user of the expiration of the application rental period, the application rental period comprising a period of time during which the user is authorized to access the application.

7. The system of claim 1, wherein to provide access to the portion of the application, the ~~application access component~~data center computer is ~~configured~~programmed to stream the portion of the application to the user computing device.

~~8. The system of claim 7, wherein the application access component is further configured to cause the portion of the application to be removed from the user computing device upon completion of a usage session for the application.~~

9.8. A method for accessing an application available from a data center of a program execution service, the method comprising:

under control of a Program Execution Service (PES) that includes a number plurality of data centers, each data center including one or more physical computing systems configurable to execute one or more virtual desktop instances, each virtual desktop instance associated with a computing environment that includes an operating system configurable to execute one or more applications, each virtual desktop instance accessible by a computing

device of a user of the PES via a network, the PES including an application marketplace accessible to search for one or more of the virtual desktop instances or one or more applications:

providing, to a user computing device associated with a user of the PES, access to the application marketplace for searching for an application to be executed by ~~the~~ a virtual desktop instance;

receiving, by the application marketplace, a request from the user to access the application on ~~a~~ the virtual desktop instance from the user computing device;

accessing metadata associated with the user computing device, the metadata comprising authorization information indicative of whether the user is authorized to access the application from the PES on the user computing device;

determining, based at least in part on the metadata, whether the user is authorized to access the application on the user computing device;

in response to determining that the user is authorized to access the application on the user computing device, causing

configuring the application to be executed from the virtual desktop instance; ~~and~~

providing, to the user computing device, access to at least a portion of the application from the virtual desktop instance; and

removing the portion of the application from the user computing device upon completion of a usage session for the application.

~~40.9.~~ The method of claim 98, wherein the portion of the application comprises a user interface of the application.

~~41.10.~~ The method of claim 98, wherein the portion of the application comprises an entire copy of the application.

~~42.11.~~ The method of claim 98, wherein providing access to at least a portion of the application comprises streaming a portion of the application to the user computing device.

~~43.12.~~ The method of claim 98, wherein providing access to at least a portion of the application comprises streaming the virtual desktop instance to the user computing device.

44.13. The method of claim 98, wherein the metadata further comprises purchasing information indicative of whether the user has purchased, rented, or licensed the application from the application marketplace.

45.14. The method of claim 4413, wherein the method further comprises sending a notification to the user at an expiration of an application rental period notifying the user of the expiration of the application rental period, the application rental period comprising a period of time during which the user is authorized to access the application.

15. Non-transitory physical computer storage comprising computer-executable instructions that direct a computing system to perform a method for accessing an application available from a data center of a program execution service, the method comprising:

under control of a Program Execution Service (PES) that includes a plurality of data centers, each data center including one or more physical computing systems configurable to execute one or more virtual desktop instances, each virtual desktop instance associated with a computing environment that includes an operating system configurable to execute one or more applications, each virtual desktop instance accessible by a computing device of a user of the PES via a network, the PES including an application marketplace accessible to search for one or more of the virtual desktop instances or one or more applications:

providing, to a user computing device associated with a user of the PES, access to the application marketplace for searching for an application to be executed by a virtual desktop instance;

receiving, by the application marketplace, a request from the user to access the application on the virtual desktop instance from the user computing device;

accessing metadata associated with the user computing device, the metadata comprising authorization information indicative of whether the user is authorized to access the application from the PES on the user computing device;

determining, based at least in part on the metadata, whether the user is authorized to access the application on the user computing device;

in response to determining that the user is authorized to access the application on the user computing device:

configuring the application to be executed from the virtual desktop instance;

providing, to the user computing device, access to at least a portion of the application from the virtual desktop instance; and

removing the portion of the application from the user computing device upon completion of a usage session for the application.

16. The non-transitory physical computer storage of claim 15, wherein the portion of the application comprises a user interface of the application.

17. The non-transitory physical computer storage of claim 15, wherein the portion of the application comprises an entire copy of the application.

18. The non-transitory physical computer storage of claim 15, wherein providing access to at least a portion of the application comprises streaming a portion of the application to the user computing device.

19. The non-transitory physical computer storage of claim 15, wherein providing access to at least a portion of the application comprises streaming the virtual desktop instance to the user computing device.

20. The non-transitory physical computer storage of claim 15, wherein the metadata further comprises purchasing information indicative of whether the user has purchased, rented, or licensed the application from the application marketplace.

21. The non-transitory physical computer storage of claim 20, wherein the method further comprises sending a notification to the user at an expiration of an application rental period notifying the user of the expiration of the application rental period, the application rental period comprising a period of time during which the user is authorized to access the application.