

CLAIMS

WHAT IS CLAIMED IS:

1. A computer-implemented method comprising:
receiving one or more rules for respective users' access to variable resources associated with virtual desktop instances;
receiving a first request from a computing device to access a virtual desktop instance, the request identifying a user of the computing device;
providing, to the computing device, access to a first virtual desktop instance configured with a set of resources, the set of resources including at least one of a specified amount of processing resources within the configuration of the virtual machine and a specified amount of memory resources within the configuration of the virtual machine for use in executing the first virtual desktop instance;
receiving a second request from the user of the computing device to cause a change in the set of resources, wherein the second request is initiated by a selection by the user of an application process requiring resources greater than at least one of the specified amount of processing resources and the specified amount of memory resources, and the change comprises scaling at least one variable resource within the set of resources;
processing the one or more rules for respective users' access to variable resources to determine that the at least one variable resource should be scaled; and
causing the at least one variable resource to be scaled without interrupting access to the first virtual desktop instance.
2. The computer-implemented method of Claim 1, further comprising scaling one or more of memory specifications or processing power specifications associated with the virtual desktop instance.
3. The computer-implemented method of Claim 1, wherein the first virtual desktop instance is configured with the set of resources in accordance with a user profile and wherein the one or more rules for respective users' access to variable resources are included in the user profile.

4. The computer-implemented method of Claim 1, further comprising causing one or more volumes to be attached to the first virtual desktop instance, the one or more volumes including desktop personalization information for the user and a data store for the user, wherein a first operating system running within the first virtual desktop instance is personalized according to the desktop personalization information for the user and to one or more operating system folders mapped to storage in the data store for the user.

5. The computer-implemented method of Claim 4 further comprising causing the one or more volumes to be detached from the first virtual desktop instance and attached to a second virtual desktop instance.

6. A system, comprising:

one or more computer systems including processors and memory having computer-executable instructions that, when executed, cause the system to:

receive a policy, the policy establishing one or more rules for respective users' access to variable resources associated with virtual desktop instances;

receive a request from a computing device to access a virtual desktop instance, the request identifying a user of the computing device;

provide, to the user computing device, access to a first virtual desktop instance configured with a set of resources, the set of resources including at least one of a specified amount of processing resources within the configuration of the virtual machine and a specified amount of memory resources within the configuration of the virtual machine for use in executing the first virtual desktop instance;

receive a second request from the user of the computing device to cause a change in the set of resources, wherein the second request is initiated by a selection by the user of an application process requiring resources greater than at least one of a the specified amount of processing resources the and specified amount of memory resources, and the change in the set of resources comprises a modification of the at least one of the specified amount of processing resources and the specified amount of memory resources;

process the one or more rules associated with the user's access to variable resources, to determine whether the request to cause the change in the set of resources should be granted; and

responsive to a determination that the request should be granted, cause the change in the set of resources without interrupting access to the first virtual desktop instance.

7. The system of claim 6, wherein the set of resources comprises one or more of: an operating system run by the virtual desktop instance, memory specifications associated with the virtual desktop instance, or processing power specifications associated with the virtual desktop instance.

8. The system of claim 6, wherein the one or more rules for respective users' access to variable resources are stored in a user profile associated with each user.

9. The system of claim 8, wherein the first virtual desktop instance is configured based on historical resource access statistics associated with the user.

10. Non-transitory physical computer storage comprising computer-executable instructions that, when executed, direct a computing system to at least:

receive one or more rules for respective users' access to variable resources associated with virtual desktop instances;

receive a first request from a computing device to access a virtual desktop instance, the request identifying a user of the computing device;

provide, to the user computing device, access to a first virtual desktop instance configured with a set of resources, the set of resources including at least one of a specified amount of processing resources within the configuration of the virtual machine and a specified amount of memory resources within the configuration of the virtual machine for use in executing the first virtual desktop instance;

receive a second request from the user of the computing device to cause a change in the set of resources, wherein the second request is initiated by a selection by the user of an application process requiring resources greater than at least one of the specified amount of processing resources and the specified amount of memory resources, and the change comprises an adjustment to at least one variable resource in the set of resources;

determine, based at least in part on the one or more rules for users' respective access to variable resources, that the at least one variable resource in the set of resources should be adjusted; and

responsive to the determination, cause the adjustment to the at least one variable resource without interrupting access to the first virtual desktop instance.

11. The non-transitory physical computer storage of Claim 10, wherein the second request received from the user of the computing device comprises a request to access a virtual desktop instance configured with the changed set of resources.

12. The non-transitory physical computer storage of Claim 11, wherein the computer-executable instructions, when executed, direct the computing system to cause a change in the set of resources up to an amount of resources indicated in the one or more rules associated with the user.

13. The non-transitory physical computer storage of Claim 11, wherein the computer-executable instructions, when executed, further direct the computing system to:

determine that the second request comprises a request for a set of resources above the amount of resources indicated in the one or more rules associated with the user; and

notify an administrator associated with a user account of the user.

14. The non-transitory physical computer storage of Claim 10, wherein the computer-executable instructions, when executed, further direct the computing system to calculate a cost for access to the first virtual desktop instance.

15. The non-transitory physical computer storage of Claim 14, wherein the computer-executable instructions, when executed, direct the computing system to calculate the cost based at least in part on a period of time for which the user has access to the first virtual desktop instance configured with the set of resources.

16. The non-transitory physical computer storage of Claim 14, wherein the computer-executable instructions, when executed, direct the computing system to determine to cause a change in the set of resources, and further direct the computing system to calculate the cost based at least in part on a period of time for which the user has access to the first virtual desktop instance configured with the changed set of resources.