CLAIMS

WHAT IS CLAIMED IS:

1. A system comprising:

one or more computers of a Program Execution Service (PES) including processors and memory, the memory including instructions that, upon execution, cause the one or more computers to:

receive a request for a virtual desktop instance from a computing device, the request identifying a user of the computing device, wherein the computing device includes a local data store;

identify a first desktop store corresponding to the user of the computing device, the first desktop store including a desktop profile for the user and one or more folders including user content, wherein the first desktop store is different from the local data store; and

identify a virtual desktop instance corresponding to the request, the virtual desktop instance associated with a host computer system, the host computer system including one or more processors and memory, the memory including instructions that upon execution cause the host computer system to:

attach the first desktop store to the virtual desktop instance over a network;

replicate the user content in the one or more folders stored in the first desktop store to a second desktop store, wherein the second desktop store is different from the first desktop store and the local data store;

provide, to the computing device, access to the virtual desktop instance customized according to the desktop profile for the user and configured to store changes to user content to the one or more folders stored in the first desktop store;

write changes to the user content made by the virtual desktop instance to the one or more folders stored in the first desktop store;

write changes to the user content made by the virtual desktop instance to the user content stored in the second desktop store;

determine an event related to the first desktop store, wherein the event is indicative of a failure of the first desktop store; and

responsive to the determination of the event, detach the first desktop store from the virtual desktop instance and attach the second desktop store to the virtual desktop instance over the network, wherein the virtual desktop instance is maintained while the first desktop store is detached and the second desktop store is attached.

2. The system of Claim 1, wherein the first desktop store is stored on a first server, and the second desktop store is stored on a second server.

3. The system of Claim 1, wherein the one or more computers of the PES include a storage server hosting the first desktop store, and wherein the storage server is configured to generate a snapshot of the first desktop store in response to a request.

4. The system of Claim 1, wherein the instructions, upon execution, further cause the host computer system to periodically create a snapshot of the first and second desktop stores.

5. The system of Claim 1, wherein the first desktop store and the second desktop store are respectively stored on servers located in networks independent from one another.

6. A computer-implemented method comprising:

receiving a request from a computing device for a virtual desktop instance, the request identifying a user of the computing device, the computing device including a local data store;

identifying a first virtual desktop instance corresponding to the request;

attaching a first desktop store to the first virtual desktop instance over a network, the first desktop store including a desktop profile for the user and one or more folders including user content, wherein the first desktop store is different from the local data store;

providing, to the computing device, access to the first virtual desktop instance customized according to the desktop profile for the user and configured to store changes to user content to the one or more folders stored in the first desktop store;

writing changes to the user content made by the first virtual desktop instance to the one or more folders stored in the first desktop store;

replicating the first desktop store to a second desktop store, wherein the second desktop store is different from the first desktop store and the local data store;

writing changes to the user content made by the first virtual desktop instance to user content stored in the second desktop store; and

in response to an event related to the first desktop store, attaching the second desktop store over the network to at least one of the first virtual desktop instance and a second virtual desktop instance corresponding to the request, wherein the event is indicative of a failure of the first desktop store, and wherein the first virtual desktop instance is maintained while the second desktop store is attached.

7. The computer-implemented method of Claim 6, further comprising:

determining an event related to the first virtual desktop instance;

in response to the event related to the first virtual desktop instance, identifying the second virtual desktop instance corresponding to the request;

detaching the first desktop store from the first virtual desktop instance;

attaching the first desktop store to the second virtual desktop instance; and

providing, to the computing device, access to the second virtual desktop instance.

8. The computer-implemented method of Claim 6 further comprising:

determining the event related to the first desktop store;

detaching the first desktop store from the first virtual desktop instance; and

attaching the second desktop store to the first virtual desktop instance.

9. The computer-implemented method of Claim 8 further comprising:

determining an event related to the first virtual desktop instance;

in response to the event related to the first virtual desktop instance, identifying the second virtual desktop instance corresponding to the request;

detaching the second desktop store from the first virtual desktop instance;

attaching the second desktop store to the second virtual desktop instance; and

providing, to the computing device, access to the second virtual desktop instance.

10. The computer-implemented method of Claim 6 further comprising:

determining the event related to the first virtual desktop instance;

identifying the second virtual desktop instance corresponding to the request;

detaching the first desktop store from the first virtual desktop instance;

attaching the first desktop store to the second virtual desktop instance; and

providing, to the computing device, access to the second virtual desktop instance.

11. The computer-implemented method of Claim 10 further comprising:

determining the event related to the first desktop store;

detaching the first desktop store from the second virtual desktop instance; and

attaching the second desktop store to the second virtual desktop instance.

12. The computer-implemented method of Claim 6, wherein a snapshot of the first desktop store is periodically saved to a storage server.

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

receive a request from a client for a virtual desktop instance, the request identifying a user of the client; and

identify a first virtual desktop instance corresponding to the request, the first virtual desktop instance associated with a host computer system, the host computer system including one or more processors and memory, the memory including instructions that upon execution cause the host computer system to:

attach a first desktop store to the first virtual desktop instance over a network, the first desktop store including a desktop profile for the user and one or more folders including user content, wherein the first desktop store differs from a data store of the client;

provide, to the client, access to the first virtual desktop instance customized according to the desktop profile for the user and configured to store changes to user content to the one or more folders stored in the first desktop store;

write changes to the user content made by the first virtual desktop instance to the one or more folders stored in the first desktop store;

replicate the first desktop store to a second desktop store, wherein the second desktop store differs from the first desktop store and the data store of the client;

write changes to the user content made by the virtual desktop instance to user content stored in the second desktop store;

in response to an interruption related to the first desktop store, detach the first desktop store from the first virtual desktop instance and attach a second desktop store over the network to at least one of the first virtual desktop instance and a second virtual desktop instance corresponding to the request, wherein the interruption is indicative of a failure of the first desktop store, and wherein the first virtual desktop instance is maintained while the first desktop store is detached and the second desktop store is attached.

14. The non-transitory physical computer storage of Claim 13, wherein a snapshot of the first desktop store is periodically saved to a storage server.

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

determine an interruption related to the first virtual desktop instance;

identify the second virtual desktop instance corresponding to the request;

attach the first desktop store to the second virtual desktop instance; and

provide, to the client, access to the second virtual desktop instance.

16. The non-transitory physical computer storage of Claim 15, wherein the computer-executable instructions, when executed, further direct the computing system to detach the first desktop store from the first virtual desktop instance.