CLAIMS

WHAT IS CLAIMED IS:

1. A computer-implemented method for data storage, comprising:

under the control of one or more computer systems configured with executable instructions,

monitoring data files of a first computing system;

determining an importance of one or more data files based at least in part on a quantified data inference algorithm;

selectively determining a set of data files from the one or more data files to send to a storage service based at least in part on a determined importance of the set of data files; and

causing the set of data files to be uploaded for availability of the set of data files on other computing devices.

2. The computer-implemented method of claim 1, wherein determining an importance of one or more data files further comprises calculating an importance rating based at least in part on metadata describing the data file.

3. The computer-implemented method of claim 2, wherein the metadata comprises document type, document access history, document edit history, keywords, or author information.

4. The computer-implemented method of claim 1, wherein determining an importance of one or more data files further comprises calculating an importance rating based at least in part on a relationship with one or more applications installed on the first computing system.

5. The computer-implemented method of claim 1, wherein the quantified data inference algorithm is based at least in part on user interaction with a data file from the one or more data files.

6. The computer-implemented method of claim 1, further comprising receiving an address of a second computing device registered to an account of the storage service to enable transmission of the set of data files to the second computing device.

7. The computer-implemented method of claim 1, further comprising causing the set of data files to be stored by the storage service.

8. The computer-implemented method of claim 1, further comprising indexing the set of data files to enable searching of the set of data files.

9. The computer-implemented method of claim 1, wherein causing the set of data files to be uploaded further comprises encrypting the set of data files such that the set of data files is stored in encrypted form at the storage service.

10. The computer-implemented method of claim 1, further comprising determining an importance rating of at least one file from the set of data files based at least in part on a file event or file attribute.

11. A computer system for data storage, comprising:

one or more computing resources having one or more processors and memory including executable instructions that, when executed by the one or more processors, cause the one or more processors to implement at least:

a first computing system application configured to selectively determine a set of data files in a data structure to send to a storage service based on a determined importance of the data files;

a second computing system application configured to receive the data files from the storage service; and

the storage service configured to manage synchronization of the data files between the first computing system and the second computing system.

12. The computer system of claim 11, wherein the first computing system further comprises a volume containing a file structure and wherein the data structure is a file structure.

13. The computer system of claim 11, wherein the storage service further comprises storage to store the set of data files.

14. The computer system of claim 13, wherein the storage service further comprises a web application that provides an editor for at least one data file from the set of data files stored by the storage.

15. The computer system of claim 13, further comprising a search service that indexes the set of files stored by the storage and provides a search interface.

CLAIMS

WHAT IS CLAIMED IS:

1. A computer-implemented method for providing data, comprising:

running, by a service provider, a virtual machine including an operating system within a multi-tenant environment for a customer of the service provider;

monitoring the operating system for access of data files in a file structure of the operating system;

determining an importance of at least a portion of the data files in the file structure; and

uploading at least a portion of the data files from the file structure to a storage service based at least in part on the determined importance such that the uploaded data files become cached on a server for distribution to other computing devices.

2. The computer-implemented method of claim 1, wherein the importance is based at least in part on a bloom filter.

3. The computer-implemented method of claim 1, further comprising causing multiple versions of the uploaded data files to be made available on a second computing system.

4. The computer-implemented method of claim 1, further comprising causing removal of one or more of the uploaded data files on the server based at least in part on a second determination of importance of the one or more of the uploaded data files.

5. The computer-implemented method of claim 1, further comprising causing a supplemental data file supporting an uploaded data file with the uploaded data file to be cached on the server.

6. The computer-implemented method of claim 1, further comprising:

monitoring the virtual machine for one or more changes to the uploaded data files; and

uploading the one or more changes to the data files from a first computing system to form a new version of the data file.

7. The computer-implemented method of claim 1, wherein the importance is based at least in part on recent accesses to a respective data file in the file structure.

8. One or more computer-readable storage media having collectively stored thereon executable instructions that, when executed by one or more processors of a computer system, cause the computer system to at least:

determine an importance of data files of a first computing system;

determine a set of data files from the first computing system based at least in part on the determined importance of the set of data files; and

upload the set of data files to the computer system that associates the first computing system and a second computing system and is configured to transmit the uploaded files to the second computing system.

9. The computer-readable storage media of claim 8, wherein the instructions further comprise instructions that, when executed, cause the computer system to at least temporarily store the set of data files; and

wherein the upload of the set of data files further comprises distributing the set of data files to the second computing system.

10. The computer-readable storage media of claim 8, wherein the instructions further comprise instructions that, when executed, cause the computer system to at least restrict the set of data files to a subset of the set of data files based at least in part on permissions granted to a user of the second computing system.

11. The computer-readable storage media of claim 8, wherein the determined importance is based at least in part on a recency of access of each data file in the set of data files.

12. The computer-readable storage media of claim 8, wherein the determined importance is based at least in part on a set of applications installed on the first computing system.

13. The computer-readable storage media of claim 8,

wherein the set of data files is a list of data files determined to be sent to the second computing system; and

wherein the upload of the set of data files further comprises receiving an address of the second computing system to facilitate direct communication of the set of data files to the second computing system by the first computing system.

14. The computer-readable storage media of claim 8, wherein the set of data files contains a subset of a set of data files in a folder with at least one file from the set of data files in the folder being outside of the subset.

15. A computer-implemented method for providing data, comprising:

determining an importance of data files of a first computing system;

determining a set of data files from the first computing system based at least in part on the determined importance of the set of data files; and

uploading the set of data files to a computer system that associates the first computing system and a second computing system and is configured to transmit the uploaded files to the second computing system.

16. The computer-implemented method of claim 15, further comprising:

temporarily storing the set of data files; and

wherein uploading the set of data files further comprises distributing the set of data files to the second computing system.

17. The computer-implemented method of claim 15, further comprising:

restricting the set of data files to a subset of the set of data files based at least in part on permissions granted to a user of the second computing system.

18. The computer-implemented method of claim 15, wherein the determined importance is based at least in part on a recency of access of each data file in the set of data files or a set of applications installed on the first computing system.

19. The computer-implemented method of claim 15,

wherein the set of data files is a list of data files determined to be sent to the second computing system; and

wherein uploading the set of data files further comprises receiving an address of the second computing system to facilitate direct communication of the set of data files to the second computing system by the first computing system.

20. The computer-implemented method of claim 15, wherein the set of data files contains a subset of a set of data files in a folder with at least one file from the set of data files in the folder being outside of the subset.

21. A system for performing the computer-implemented method of any one of claims 15 to 20, the system comprising the computer system, the first computing device and the second computing device.

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WHAT IS CLAIMED IS:

1. A computer-implemented method for providing data, comprising:

running, by a service provider, a virtual machine including an operating system within a multi-tenant environment for a customer of the service provider;

monitoring the operating system for access of data files in a file structure of the operating system;

determining an importance of at least a portion of the data files in the file structure; and

uploading at least a portion of the data files from the file structure to a storage service based at least in part on the determined importance such that the uploaded data files become cached on a server for distribution to other computing devices.

2. The computer-implemented method of claim 1, wherein the importance is based at least in part on a bloom filter.

3. The computer-implemented method of claim 1, further comprising causing multiple versions of the uploaded data files to be made available on a second computing system.

4. The computer-implemented method of claim 1, further comprising causing removal of one or more of the uploaded data files on the server based at least in part on a second determination of importance of the one or more of the uploaded data files.

5. The computer-implemented method of claim 1, further comprising causing a supplemental data file supporting an uploaded data file with the uploaded data file to be cached on the server.

6. The computer-implemented method of claim 1, further comprising:

monitoring the virtual machine for one or more changes to the uploaded data files; and

uploading the one or more changes to the data files from a first computing system to form a new version of the data file.

7. The computer-implemented method of claim 1, wherein the importance is based at least in part on recent accesses to a respective data file in the file structure.

8. One or more computer-readable storage media having collectively stored thereon executable instructions that, when executed by one or more processors of a computer system, cause the computer system to at least:

determine an importance of data files of a first computing system;

determine a set of data files from the first computing system based at least in part on the determined importance of the set of data files; and

upload the set of data files to the computer system that associates the first computing system and a second computing system and is configured to transmit the uploaded files to the second computing system.

9. The computer-readable storage media of claim 8, wherein the instructions further comprise instructions that, when executed, cause the computer system to at least temporarily store the set of data files; and

wherein the upload of the set of data files further comprises distributing the set of data files to the second computing system.

10. The computer-readable storage media of claim 8, wherein the instructions further comprise instructions that, when executed, cause the computer system to at least restrict the set of data files to a subset of the set of data files based at least in part on permissions granted to a user of the second computing system.

11. The computer-readable storage media of claim 8, wherein the determined importance is based at least in part on a recency of access of each data file in the set of data files.

12. The computer-readable storage media of claim 8, wherein the determined importance is based at least in part on a set of applications installed on the first computing system.

13. The computer-readable storage media of claim 8,

wherein the set of data files is a list of data files determined to be sent to the second computing system; and

wherein the upload of the set of data files further comprises receiving an address of the second computing system to facilitate direct communication of the set of data files to the second computing system by the first computing system.

14. The computer-readable storage media of claim 8, wherein the set of data files contains a subset of a set of data files in a folder with at least one file from the set of data files in the folder being outside of the subset.

15. A computer-implemented method for providing data, comprising:

determining an importance of data files of a first computing system;

determining a set of data files from the first computing system based at least in part on the determined importance of the set of data files; and

uploading the set of data files to a computer system that associates the first computing system and a second computing system and is configured to transmit the uploaded files to the second computing system.

16. The computer-implemented method of claim 15, further comprising:

temporarily storing the set of data files; and

wherein uploading the set of data files further comprises distributing the set of data files to the second computing system.

17. The computer-implemented method of claim 15, further comprising:

restricting the set of data files to a subset of the set of data files based at least in part on permissions granted to a user of the second computing system.

18. The computer-implemented method of claim 15, wherein the determined importance is based at least in part on a recency of access of each data file in the set of data files or a set of applications installed on the first computing system.

19. The computer-implemented method of claim 15,

wherein the set of data files is a list of data files determined to be sent to the second computing system; and

wherein uploading the set of data files further comprises receiving an address of the second computing system to facilitate direct communication of the set of data files to the second computing system by the first computing system.

20. The computer-implemented method of claim 15, wherein the set of data files contains a subset of a set of data files in a folder with at least one file from the set of data files in the folder being outside of the subset.

21. A system for performing the computer-implemented method of any one of claims 15 to 20, the system comprising the computer system, the first computing device and the second computing device.