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### Systems and methods for locally streaming applications in a computing system

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#### Abstract

The present disclosure relates generally to a system that includes a storage component that stores data and a processor. The processor may install an application using a portion of the storage component, partition the portion of the storage component from a remaining portion of the storage component, and execute the application via the portion of the storage component.

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## Background/Summary

CROSS-REFERENCE TO RELATED APPLICATION (1) This application is a continuation of U.S. patent application Ser. No. 18/144,633, entitled “SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM,” filed May 8, 2023, which is a continuation of U.S. patent application Ser. No. 17/545,726, entitled, “SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM,” filed Dec. 8, 2021, which is a continuation of U.S. patent application Ser. No. 17/077,735, entitled, “SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM,” filed Oct. 22, 2020, which is a continuation of U.S. patent application Ser. No. 16/592,594, entitled, “SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM,” filed Oct. 3, 2019, which is a continuation of U.S. patent application Ser. No. 16/283,144, entitled, “SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM,” filed Feb. 22, 2019,

which is a continuation of U.S. patent application Ser. No. 16/108,796, entitled, "SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM," filed Aug. 22, 2018, which is a continuation of U.S. patent application Ser. No. 15/591,942, entitled, "SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM," filed May 10, 2017, which claims priority to and the benefit of U.S. Provisional Application No. 62/337,731, entitled "SYSTEMS AND METHODS FOR LOCALLY STREAMING APPLICATIONS IN A COMPUTING SYSTEM," filed May 17, 2016, which are each hereby incorporated by reference in their entirety for all purposes.

## BACKGROUND

(1) The present disclosure relates generally to systems and methods for maintaining computing systems. More specifically, the present disclosure relates to improving the performance of a computing system as the computing system continuously stores various applications.

## SUMMARY

(2) A summary of certain embodiments disclosed herein is set forth below. It should be understood that these aspects are presented merely to provide the reader with a brief summary of these certain embodiments and that these aspects are not intended to limit the scope of this disclosure. Indeed, this disclosure may encompass a variety of aspects that may not be set forth below.

(3) In one embodiment, a system may include a storage component capable of storing data. The system may also include a processor that may install an application using a portion of the storage component, partition the portion of the storage component from a remaining portion of the storage component, and execute the application via the portion of the storage component.

(4) In another embodiment, a non-transitory computer-readable medium that includes computer-executable instructions may cause a processor to receive a request to return to a previous state of a computing system, identify one or more containers in a storage device of the computing system that were added after the previous state, disable the one or more containers, and swap the one or more containers with one or more empty containers.

(5) In yet another embodiment, a method may include receiving, via a processor, a request to set a current state of a computing system as a recovery state, identifying a plurality of applications installed on a storage component of the computing system having a similar manufacturer, type, function, date of creation, or any combination thereof, and creating a partition within the storage component, wherein the partition is configured to store the plurality of applications. The method may then include moving the plurality of applications to the partition of the storage component.

(6) Various refinements of the features noted above may exist in relation to various aspects of the present disclosure. Further features may also be incorporated in these various aspects as well. These refinements and additional features may exist individually or in any combination. For instance, various features discussed below in relation to one or more of the illustrated embodiments may be incorporated into any of the above-described aspects of the present disclosure alone or in any combination. The brief summary presented above is intended only to familiarize the reader with certain aspects and contexts of embodiments of the present disclosure without limitation to the claimed subject matter.

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## Description

### DESCRIPTION OF DRAWINGS

(1) These and other features, aspects, and advantages of the present disclosure will become better understood when the following detailed description is read with reference to the accompanying drawings in which like characters represent like parts throughout the drawings, wherein:

(2) FIG. 1 illustrates a block diagram of a computing system, in accordance with embodiments described herein;

- (3) FIG. 2 illustrates a block diagram of a storage component of the computing system of FIG. 1 with containers of data organized in accordance with embodiments described herein;
- (4) FIG. 3 illustrates another block diagram of a storage component of the computing system of FIG. 1 with containers of data organized in accordance with embodiments described herein;
- (5) FIG. 4 illustrates a flow chart of a method for generating containers within the storage component of the computing system of FIG. 1, in accordance with embodiments described herein;
- (6) FIG. 5 illustrates a flow chart of a method for returning to a previous state of the computing system of FIG. 1, in accordance with embodiments described herein;
- (7) FIG. 6 illustrates a flow chart of a method for organizing data within containers of the storage component of the computing system of FIG. 1, in accordance with embodiments described herein; and
- (8) FIG. 7 illustrates a flow chart of a method for locally streaming various applications via containers within the storage component of the computing system of FIG. 1, in accordance with embodiments described herein.

#### DETAILED DESCRIPTION

(9) One or more specific embodiments will be described below. In an effort to provide a concise description of these embodiments, not all features of an actual implementation are described in the specification. It should be appreciated that in the development of any such actual implementation, as in any engineering or design project, numerous implementation-specific decisions must be made to achieve the developers' specific goals, such as compliance with system-related and business-related constraints, which may vary from one implementation to another. Moreover, it should be appreciated that such a development effort might be complex and time consuming, but would nevertheless be a routine undertaking of design, fabrication, and manufacture for those of ordinary skill having the benefit of this disclosure.

(10) As numerous software applications are installed onto a computer, the computer makes itself more vulnerable to malware, viruses, performance issues, and the like. That is, as new software applications are installed on a computer, certain undesirable software tools or programs may be installed with the new applications. Moreover, some applications may provide entry points for malware or viruses to gain access the computer. For example, when certain applications are installed on a computer, the application may include a daemon or background program that collects various types of information regarding the computer user, the computer usage, or the like. This collection of information takes computing resources away from the applications that a user is attempting to use. As more applications are added to the computer, the performance of the computer may continue to decline due to the undesirable additions.

(11) To enable users to better manage the changes or additional applications that they add to their computers, a computing system in accordance with present embodiments stores each new application installed on the computing device in a separate storage container from each other. That is, the computing system may create a partition in its storage (e.g., hard drive space) for each application installed onto the computing system. As a result, the newly added applications are limited to accessing data available within its respective container, and thus prevented from accessing other applications (e.g., operating system). Moreover, since each new application is added into an individual container, a user may better track how each newly added application affects the overall performance of the computing system. If the user suspects that the performance of the computer system is beginning to decline, the user may disable various applications via their respective containers and analyze how the computing system operates without each respective application. In this way, the user is better equipped to manage the maintenance of his/her respective computing system by managing the containers in which various applications are stored.

(12) By way of introduction, FIG. 1 is a block diagram of example components within an exemplary computing system 10 in accordance with present embodiments. The computing system 10 may include any suitable computer device, such as a general-purpose personal computer, a

laptop computer, a tablet computer, a mobile computer, and the like that is configured in accordance with present embodiments. The computing system **10** may include various types of components that may assist the computing system **10** in performing various types of computer tasks and operations. For example, the computing system **10** may include a communication component **12**, a processor **14**, a memory **16**, a storage **18**, input/output (I/O) ports **20**, a display **22**, and the like. The communication component **12** may be a wireless or wired communication component that may facilitate communication between the computing system **10** and various other computing systems via a network, the Internet, or the like.

(13) The processor **14** may be any type of computer processor or microprocessor capable of executing computer-executable code. The processor **14** may also include multiple processors that may perform the operations described below.

(14) The memory **16** and the storage **18** may be any suitable articles of manufacture that can serve as media to store processor-executable code, data, or the like. These articles of manufacture may represent computer-readable media (e.g., any suitable form of memory or storage) that may store the processor-executable code used by the processor **14** to perform the presently disclosed techniques. The memory **16** and the storage **18** may also be used to store the containers of data in accordance with the techniques described herein. In one embodiment, the storage **18** may include hard drive space that may be partitioned into different containers to store different applications, groups of applications, different types of data, and the like. As used herein, applications may include any suitable computer software or program that may be installed onto the computing system **10** and executed by the processor **14**. The memory **16** and the storage **18** may represent non-transitory computer-readable media (e.g., any suitable form of memory or storage) that may store the processor-executable code used by the processor **14** to perform various techniques described herein. It should be noted that non-transitory merely indicates that the media is tangible and not a signal.

(15) The I/O ports **20** may be interfaces that may couple to other peripheral components such as input devices (e.g., keyboard, mouse), sensors, input/output (I/O) modules, and the like. The display **22** may operate to depict visualizations associated with software or executable code being processed by the processor **14**. In one embodiment, the display **22** may be a touch display capable of receiving inputs from a user of the computing system **10**. The display **22** may be any suitable type of display, such as a liquid crystal display (LCD), plasma display, or an organic light emitting diode (OLED) display, for example. Additionally, in one embodiment, the display **22** may be provided in conjunction with a touch-sensitive mechanism (e.g., a touch screen) that may function as part of a control interface for the computing system **10**.

(16) It should be noted that the components described above with regard to the computing system **10** are exemplary components and the computing system **10** may include additional or fewer components as shown.

(17) With the foregoing in mind, FIG. 2 depicts a block diagram of the storage **18** that illustrates how various applications may be stored on the storage **18** or the like in accordance with the techniques described herein. Generally, the computing system **10** may use an operating system to manage the operations and resources of the computing system **10** and to provide common services for various applications. In one embodiment, the processor **14** may store the data related to an operating system in the storage **18** as illustrated in FIG. 2. That is, the processor **14** may store the operating system data in a read-only operating system container **32**. In other words, after the operating system is installed onto the computing system **10**, the processor **14** may partition the remaining portion of the storage **18** to generate the read-only operating system container **32**. The processor **14** may also modify hardware registers associated with the read-only container **32** to indicate to other applications that the data contained within the read-only container **32** is read-only. In this way, other applications may access the operating system data within the read-only container **32** for read operations but are prevented from writing or changing any data stored within the read-

only container **32**.

(18) As additional applications are added to the computing system **10** or as changes (e.g., updates or patches) are added to the computing system **10**, the processor **14** may store each respective application in the storage **18** and partition the remaining portion of the storage **18** from the previously stored data. For example, a first added application may be stored in container **34**, which may be separate from the read-only container **32**, and a second added application may be stored in container **36**, which may be separate from the container **34** and the read-only container **32**. As such, each application may be constrained to its respective container. Moreover, since the read-only container **32** is read only, each newly added application may not be able to modify or corrupt the operating system stored in the read-only container **32**. Although container **32** is described as being read-only, it should be noted that any container may be configured or designated as read only.

(19) In certain embodiments, the processor **14** may organize data within the storage into different containers based on the application or data type. For instance, FIG. 3 illustrates another block diagram of the storage **18** that depicts how various types of data may be stored within the storage **18**. Referring to FIG. 3, in addition to the read-only container **32**, the processor **14** may store patches related to the operating system in container **42**, various software installed on the computing system **10** in container **44**, and data related to a user profile in container **46**. Within the container **44**, the processor **14** may store software patches within a container **48**. Although the foregoing description of the various containers detailed certain types of data and software stored within the storage **18**, it should be noted that the presently disclosed systems and techniques are not limited to the listed types of data and software. Instead, the items described as being stored in containers depicted in FIG. 3 are merely provided as examples and are not meant to limit the types of information and data that may be stored in accordance with the presently disclosed systems and techniques.

(20) In one embodiment, the processor **14** may designate a portion of the storage **18** as hidden storage **50**. The hidden storage container **50** may not be presented to a user of the computing system **18** as being part of the storage **18**. For instance, if the storage **18** includes 200 GB of disk space, and if the hidden storage container **50** includes 100 GB of disk space, the processor **14** may indicate to the user that the storage **18** includes 100 GB of disk space. The processor **14** may then use the disk space available in the hidden storage container **50** to disable certain containers. For instance, if the processor **14** receives a request to temporarily disable a certain application stored in a particular container, the processor **14** may swap the container having the application with a similar sized container in the hidden storage **50**. As such, the user may not be alarmed as to the missing disk space due to the disabling of the specified application. Instead, the user will see the same amount of disk space within the storage **18** as seen prior to disabling the application.

(21) With the foregoing in mind, FIG. 4 illustrates a method **60** that may be employed by the processor **14** to organize applications and data within the storage **18** to enable a user to manage the maintenance of the computing system **10** more efficiently. Referring to FIG. 4, at block **62**, the processor **14** may create a partition in the storage **18** to isolate the operating system of the computing system **10** from the remaining portion of the storage **18**. As such, the processor **14** may identify the files and data associated with the operating system and create the partition in the storage **18** such that the operating system is stored within a container (e.g., container **32**) without any other applications or data.

(22) At block **64**, the processor **14** may determine whether a request to add new software, applications, or data to the computing system **10** or the storage **18** is received. If the request is not received, the processor **14** may return again to block **64** and check to see if a request is received. If, however, a request to add new software, applications, or data to the storage **18** is received, the processor **14** may proceed to block **66** and partition the storage **18** such that the newly added software, application, or data is isolated within the storage **18** in a respective container.

(23) By storing each new software, application, or data in a respective container, the processor **14**

may limit the respective operations of the stored software or application to the data available within its local container. For example, certain operations of an application may use temporary files, create new files, and conduct services on a computing system as read only. In some embodiments, the application operating within a container may have access to operating system components that are used for providing the application the ability to interact with input components, displays, and the like. Meanwhile, the application may have limited access to make changes to various registers, files, or other computing components that are not related to the operation of the respective application. Moreover, when a user desires to remove or disable a software or application, the user may send a request to the processor **14** to remove or disable undesired software or applications. The processor **14** may then remove the container associated with the undesired software or application without affecting other applications. In certain embodiments, by removing the container, the processor **14** may limit the ability of the application to interact or access the processor **14** or other computing components of the computer system **10**.

(24) In certain embodiments, the processor **14** may generate containers based on periods of time (e.g., per minute, hour, day, days, week, weeks, etc.). For example, the processor **14** may generate a container for each new day. As such, each newly added application for a particular day may be stored within the same container. In addition to storing each day's applications in an individual container, the processor **14** may maintain a record (e.g., snapshot) of a state of the storage **18** for each day, or for any period of time. In this way, user may return to a previous state of the computing system **10** by instructing the processor **14** to remove containers that were added after the day or time that corresponds to the previous state. Because the storage **18** is organized in a manner in which certain periods of time may be easily identified, and because the data associated each period of time is isolated within the storage **18** in a respective container, a user may be able to return to a previous state of the computing system **10** without worrying about how the return to the previous state may affect the computing system **10**. Indeed, the user is likely returning to a previous state because certain software or applications added to the computing system **10** have caused the computing system **10** to operate inefficiently, slowly, or with a general decrease in performance. Since the processor **14** has preserved the state of the computing system **10** using containers within the storage **18**, the operation of the computing system **10** is improved by easily identifying newly added applications that may be the cause of decreased performance in light of a period of time in which the user may have noticed decreased performance. Moreover, the processor **14** is capable of removing software or applications that are stored within containers without affecting the software or applications that were added prior to the indicated previous state.

(25) Keeping this in mind, FIG. 5 illustrates a method **70** for disabling or removing containers of the storage **18** in accordance with the techniques described herein. Generally, after the computing system **10** has been operating for a period of time, the performance of the computing system **10** may decrease due to various applications executing undesired processes in the background and the like. To enable users to improve the performance (e.g., speed) of the computing system **10**, the processor **14** may be capable of returning to a previous state of the computing system **10**. That is, the processor **14** may track the status or contents of the storage **18** at different points in time to enable the computing system **10** to return to a state when various applications were not installed on the system.

(26) With the foregoing in mind and referring to FIG. 5, at block **72**, the processor **14** may receive a request to return to a previous state of the computing system **10**. The request may refer to a date, a particular application installed at some time, or the like. In one embodiment, the processor **14** may display a visual representation of the storage **18** and the containers stored thereon. As such, the user may scan the visual representation of the storage **18** to identify the order in which various applications were installed and attempt to identify when the performance of the computing system **10** began to decrease.

(27) After receiving the request, at block **74**, the processor **14** may identify one or more containers

in the storage **18** that includes applications or data that was installed after the requested state of the computing system **18**. In one embodiment, each container may include metadata associated with it that indicates a date in which the container was created. In another embodiment, as discussed above, each container may be associated with a period of time (e.g., day, week). As such, the processor **14** may identify the containers that were added after the requested date or time.

(28) At block **76**, the processor **14** may disable the identified containers. In one embodiment, the processor **14** may delete the contents of the identified containers. Alternatively, the processor **14** may uninstall the applications stored in the identified containers. In one embodiment, the processor **14** halts the execution of the applications within the identified containers, thereby disabling the applications without deleting the applications. In this manner, the user may disable certain applications and test whether the performance of the computing system **10** has improved after disabling the application.

(29) In some embodiments, after disabling the identified containers, at block **78**, the processor **14** may swap the disabled containers with unused containers that may be part of the hidden storage **50**. As such, the disabled applications in the identified containers may be shown as being removed from the storage **18**, yet still available to re-activate if the user sends the processor **14** a request to do so. By swapping the identified containers with unused containers, the operation of the computing system **10** may be improved by removing potentially problematic applications, while maintaining the ability to re-activate or reinstall the respective applications if it is determined that the respective applications is not associated with the decreased performance.

(30) In addition to removing certain applications using containers, the processor **14** may more effectively organize the applications and data stored in the storage **18** at various times. For example, if a user has installed a number of applications and the computing system **10** has not decreased its performance after a certain period of time, the user may wish to establish the current state of the computing system **10** as a recovery state. In one embodiment, to create a recovery state of the computing system **10**, the processor **14** may organize the applications, data, and the like according to certain properties of the applications, data, or the like. By way of example, the processor **14** may store certain applications or data with respect to some property (e.g., manufacturer, application type, data type) in a corresponding container. The processor **14** may then modify the containers that include the recovery state applications into read-only containers. As a result, the management of the computing system **10** may be improved by organizing various types of applications together in particular containers, such that if problems occur with certain types of applications or data, the corresponding containers may be isolated, disabled, or the like.

(31) With this in mind, FIG. **6** illustrates a method **90** for organizing various applications or data types into certain containers. At block **92**, the processor **14** may receive a request to set a current state of the computing system **10** as a recovery state.

(32) At block **94**, the processor **14** may identify similar software, applications, or data types that are stored in various containers of the storage **18**. The software, applications, or data types may be identified based on their manufacturer, the type of applications, the function of the application, the type of data, the function of the data, the date in which the container was created, and the like.

(33) After identifying similar components stored in the storage **18**, at block **96**, the processor **14** may create a container in the storage **18** for each grouping of the identified software, applications, or data types. For example, financial software may be stored in a separate container as compared to entertainment software, such as games. Alternatively, software manufactured or developed by one entity may be stored in a container separate from software manufactured by another entity. At block **98**, the processor **14** may move each respective software, application, or data type to a corresponding container generated in block **96** based on their common grouping.

(34) In addition to providing improved organization of applications and data stored in the storage **18**, the techniques described herein may also enable the processor **14** to execute certain applications by locally streaming the execution of the applications via respective components. That



is, the operating system and user interface presented via the display **22** may provide visual representations that suggest executing an application on the computing system **10**. However, upon receiving an input via the visual representation (e.g., graphical interface, icon) to execute an application, the processor **14** may access the application as it is being executed in a separate container. As such, the display **22** may depict visualizations related to the execution of the applications, but the processor **14** may be accessing the container that stores the application via a pointer provided on the visual representation presented by the operating system.

(35) With this in mind, FIG. 7 illustrates a method **110** for enabling the processor **14** to locally stream applications via containers of the storage **18**. In one embodiment, when installing an application to the computing system **10**, at block **112**, the processor **18** may change registers or certain parameters of an operating system to indicate that certain software or applications is installed on the computing system **10**. For instance, the processor **14** may create visualizations that normally would be added onto a user interface or display to indicate that an application is installed on the computing system **10**.

(36) At block **114**, the processor **14** may add a pointer to the visualization that indicates a container that includes the application that corresponds to the visualization. For instance, the pointer may indicate a location within the storage **18** or a reference to a container in the storage **18** where the respective application is being executed.

(37) When a user wishes to use a particular application, the user may then select the visualization that corresponds to the desired application. At that time (block **116**), the processor **114** may receive a request to execute an application via the selection of the visualization. After receiving the request, at block **118**, the processor **14** may use the pointer associated with the visualization to identify a container in which the selected application is stored. The processor **14** may then execute the application within the respective container and stream the outputs of the application to the display **22**. As a result, the application may be executing on an isolated container of the storage **18** and may not affect the operation of the operating system or other applications being executed on the computing system **10**.

(38) The technical effects of the systems and methods described herein include improving the operation of the computing system **10** or any computer device by organizing applications and data within specific containers (e.g., partitions) of the storage **18**. That is, by separating the storage **18** for various applications or data types, the computing system **10** limits the ability for certain applications to alter the operating system of a computing system **10**, alter the execution of other applications, gain access to parts of the storage **18** that is not relevant to the certain applications, and the like.

(39) Moreover, the present embodiments disclosed herein address post Internet problems such as the frequent download of software or updates that may include malicious programs that compromise the performance of the computing system **10**. By maintaining isolation between data downloaded via the Internet at various times, the presently disclosed embodiments provide containment of malicious software and prevent the software from affecting different applications or containers within the storage **10**. Furthermore, the present embodiments improve the operation of the computing system **10** by quarantining the malicious software from accessing data stored on different containers.

(40) While only certain features of disclosed embodiments have been illustrated and described herein, many modifications and changes will occur to those skilled in the art. It is, therefore, to be understood that the appended claims are intended to cover all such modifications and changes as fall within the true spirit of the present disclosure.

## Claims

1. A method, comprising: installing, via a processor, an application in a storage component; creating, via the processor, a partition within the storage component, wherein the partition is configured to store the plurality of applications, previously installed on the storage component and the application, wherein configuring the partition to store the plurality of applications is based on a manufacturer, a type, a function, a date of creation, or any combination thereof that corresponds to the application; moving, via the processor, the plurality of applications and the application to the partition of the storage component; presenting, via the processor, a visualization associated with executing the application or one of the plurality of applications, or both via an electronic display, wherein each of the application and the plurality of applications is associated with a pointer corresponding to an indication of the partition in the storage component; receiving, via the processor, an input corresponding to a request to execute the application; and executing, via the processor, the application via the partition based on the pointer.
2. The method of claim 1, wherein the visualization comprises a graphical interface, an icon, or both.
3. The method of claim 1, wherein the partition comprises metadata indicative of a date in which the partition was created.
4. The method of claim 1, wherein the storage component consists of a plurality of partitions.
5. The method of claim 1, comprising: establishing, via the processor, a current state of the storage component as a recovery state; receiving, via the processor, a request to return to the recovery state; and modifying, via the processor, one or more additional partitions created after the recovery state in response to receiving the request.
6. The method of claim 1, comprising establishing, via the processor, a state of the storage component as a recovery state prior to creating the partition.
7. The method of claim 1, comprising: receiving, via the processor, a software patch associated with the application; identifying, via the processor, the partition based on the application; and storing, via the processor, the software patch in the partition.
8. The method of claim 7, where the software patch is configured to use temporary files, create new files, conduct services on a computing system as read only.
9. A non-transitory computer-readable medium comprising computer-executable instructions that, when executed, cause a processor to: install an application in a storage component; create a partition within the storage component, wherein the partition is configured to store the plurality of applications, previously installed on the storage component and the application, wherein configuring the partition to store the plurality of applications is based on a manufacturer, a type, a function, a date of creation, or any combination thereof that corresponds to the application; move the plurality of applications and the application to the partition of the storage component; present a visualization associated with executing the application or one of the plurality of applications, or both via an electronic display, wherein each of the application and the plurality of applications is associated with a pointer corresponding to an indication of the partition in the storage component; receive an input corresponding to a request to execute the application; and execute the application via the partition based on the pointer.
10. The non-transitory computer-readable medium of claim 9, wherein the visualization comprises a graphical interface, an icon, or both.
11. The non-transitory computer-readable medium of claim 9, wherein the partition comprises metadata indicative of a date in which the partition was created.
12. The non-transitory computer-readable medium of claim 9, wherein the storage component consists of a plurality of partitions.
13. The non-transitory computer-readable medium of claim 9, wherein the computer-executable instructions, when executed cause the processor to: establish a current state of the storage component as a recovery state; receive a request to return to the recovery state; and modify one or

more additional partitions created after the recovery state in response to receiving the request.

14. The non-transitory computer-readable medium of claim 9, wherein the computer-executable instructions, when executed cause the processor to establish a state of the storage component as a recovery state prior to creating the partition.

15. The non-transitory computer-readable medium of claim 9, wherein the computer-executable instructions, when executed cause the processor to: receive a software patch associated with the application; identify the partition based on the application; and store the software patch in the partition.

16. The non-transitory computer-readable medium of claim 15, wherein the software patch is configured to use temporary files, create new files, conduct services on a computing system as read only.

17. A system comprising: a storage component configured to store data; a processor configured to: install an application in a storage component; create a partition within the storage component, wherein the partition is configured to store the plurality of applications, previously installed on the storage component and the application, wherein configuring the partition to store the plurality of applications is based on a manufacturer, a type, a function, a date of creation, or any combination thereof that corresponds to the application; move the plurality of applications and the application to the partition of the storage component; present a visualization associated with executing the application or one of the plurality of applications, or both via an electronic display, wherein each of the application and the plurality of applications is associated with a pointer corresponding to an indication of the partition in the storage component; receive an input corresponding to a request to execute the application; and execute the application via the partition based on the pointer.

18. The system of claim 17 wherein the partition comprises metadata indicative of a date in which the partition was created.

19. The system of claim 17, wherein the storage component consists of a plurality of partitions.

20. The system of claim 17, wherein the processor is configured to establish a state of the storage component as a recovery state prior to creating the partition.

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