Claims

1. A computer-implemented method of preventing sensitive data received via a remote access protocol from being output to a human operator, the method comprising:

receiving, from a virtual remote server via a remote access protocol, a user interface of an application executing on the virtual remote server, wherein the virtual remote server is in the form of a virtual machine and wherein automated processes are performed on the application executing on the virtual remote server by a virtual operator of a virtual machine using the user interface of the application;

determining, or receiving from the virtual remote server, a text-based representation of the application;

identifying sensitive data in the user interface and/or the text-based representation of the application using one or more preselected filters;

modifying the user interface to remove the identified sensitive data; and

outputting the modified user interface to one or more output peripherals of a computer for receipt by the human operator.

2. The method of claim 1, wherein the remote access protocol is a remote framebuffer protocol.

3. The method of claim 2, wherein the received user interface is in the form of an image of the user interface, the step of modifying comprising modifying the image of the user interface, and the step of outputting comprising outputting the modified image of the user interface.

4. The method of claim 1, wherein the remote access protocol is a remote desktop protocol.

5. The method of claim 4, wherein the received user interface is in the form of data for rendering an image of the user interface, the step of modifying comprising modifying the data for rendering an image of the user interface, and the step of outputting comprises outputting the modified data to render an image of a modified user interface.

6. The method of any preceding claim, further comprising, prior to the step of determining, or receiving from the remote server, preselecting one or more filters based on the sensitive data that is expected in the content of the application.

7. The method of any preceding claim, wherein the step of receiving a user interface comprises receiving a user interface of a desktop of the remote server, the user interface of the application forming a portion of the user interface of the desktop.

8. The method of any preceding claim, wherein the text-based representation of the application comprises text extracted from the user interface and/or the application.

9. The method of any preceding claim, wherein the text-based representation of the application comprises a programmatic representation of the application.

10. The method of claim 9, wherein the programmatic representation comprises a document object model of the application.

11. The method of any preceding claim, wherein the preselected filter comprises a rule.

12. The method of any preceding claim, wherein the preselected filter comprises a machine learning model.

13. The method of any preceding claim, wherein the modified user interface is configured for interaction with the human operator via one or more input peripherals of the computer.

14. A computer program comprising instructions which, when the program is executed by a processor, cause the processor to carry out the method of any preceding claim.

15. A computing system comprising:

a processor configured to perform the method of any of claims 1 to 13;

a remote server communicatively coupled to the processor; and

a computer communicatively coupled to the processor and the remote server, the computer having one or more output peripherals configured to output the modified user interface and one or more input peripherals for receipt by a human user, wherein the modified user interface is configured for interaction with the human operator via the one or more input peripherals.