WHAT IS CLAIMED IS:

1. An image processing apparatus comprising:

a display;

one or more memory devices that store a set of instructions; and

one or more processors that execute the set of instructions to:

detect alteration of an application held in the image processing apparatus using a hash value obtained from a file making up the application;

determine whether or not a use of the image processing apparatus needs to be restricted based on the application in which alteration has been detected; and

restrict the use of the image processing apparatus by displaying a message indicating that alteration of the application has been detected, in a case where the use of the image processing apparatus needs to be restricted,

and not restrict the use of the image processing apparatus, in a case where the use of the image processing apparatus need not be restricted.

2. The image processing apparatus according to claim 1,

wherein the application includes an attribute file having type information of the application, a program file for executing the application, and a digest file having information for detecting alteration, and

the digest file includes a first digest including information for detecting alteration of the attribute file, a second digest including information for detecting alteration of the program file, and a third digest including information for detecting alteration of the first digest and the second digest.

3. The image processing apparatus according to claim 2, wherein

the one or more processors execute the instructions in the memory device to:

detect whether or not the program file is altered, in a case where alteration of the digest file and the attribute file is not detected.

4. The image processing apparatus according to claim 3, wherein

the one or more processors execute the instructions in the memory device to:

determine that, upon detecting alteration of the digest file or the attribute file, the use of the image processing apparatus needs to be restricted,

determine that, upon detecting alteration of the program file, in a case where the type information included in the attribute file indicates a login application for permitting an authenticated user to use the image processing apparatus, the use of the image processing apparatus needs to be restricted, and

determine that, in a case where the type information does not indicate the login application, the use of the image processing apparatus need not be restricted.

5. The image processing apparatus according to claim 4, wherein

the one or more processors execute the instructions in the memory device to:

determine that, even in a case where having determined that the fact that alteration has been detected with respect to an application necessitates restriction of the use of the image processing apparatus, in a case where the application is invalid, the use of the image processing apparatus need not be restricted.

6. The image processing apparatus according to claim 5, wherein

the one or more processors execute the instructions in the memory device to:

detect alteration of status information indicating whether or not the any

application is valid, and

determine that, in a case where having detected alteration of the status information, the use of the image processing apparatus needs to be restricted.

7. The image processing apparatus according to claim 1, wherein

the one or more processors execute the instructions in the memory device to:

in a case where the use of the image processing apparatus need not be restricted,

display a message indicating that alteration of the application has been detected, in a predetermined region of an operation screen, and

display the operation screen such that an operation to use a function of the image processing apparatus can be accepted.

8. The image processing apparatus according to claim 1, wherein

the one or more processors execute the instructions in the memory device to:

in a case where the use of the image processing apparatus needs to be restricted,

display a message indicating that alteration of the application has been detected, and a message for prompting restarting the image processing apparatus, and

continue to display the message until the restarting is performed.

9. The image processing apparatus according to claim 8, wherein

the one or more processors execute the instructions in the memory device to:

in a case where the use of the image processing apparatus needs to be restricted,

further perform display such that invalidation of the application can be accepted.

10. The image processing apparatus according to claim 6, wherein

the one or more processors execute the instructions in the memory device to:

display a message indicating that alteration of the application has been detected as a result of having detected alteration of the status information, and a message for prompting restarting the image processing apparatus,

continue to display the message until the restarting is performed, and

further perform display such that initialization of the application can be accepted.

11. The image processing apparatus according to claim 1, wherein the detection of alteration of the application is performed at least one of a timing at which the image processing apparatus is started and a timing at which the application is executed.

12. A control method of an image processing apparatus having a display, the control method comprising:

detecting alteration of an application held in the image processing apparatus using a hash value obtained from a file making up the application;

determining whether or not a use of the image processing apparatus needs to be restricted based on the application in which alteration has been detected;

restricting the use of the image processing apparatus by displaying a message indicating that alteration of the application has been detected, in a case where the use of the image processing apparatus needs to be restricted, and

not restricting the use of the image processing apparatus, in a case where the use of the image processing apparatus need not be restricted.

13. An image processing apparatus comprising:

a display;

one or more memory devices that store a set of instructions; and

one or more processors that execute the set of instructions to:

detect alteration of a login application held in the image processing apparatus using a hash value obtained from a file making up the login application, and

restrict a use of the image processing apparatus by displaying on the display, according to detection of alteration of the login application, a message indicating that alteration of the login application has been detected.

14. The image processing apparatus according to claim 13, wherein

the one or more processors execute instructions in the memory device to:

display on the display, according to detection of alteration of the login application, a message for prompting re-installing the login application.

15. The image processing apparatus according to claim 13, wherein the login application performs processing for authenticating a user.

16. The image processing apparatus according to claim 13, wherein

the one or more processors execute instructions in the memory device to:

display on the display, according to detection of alteration of the login application, a message for prompting to disable the login application.