

CLAIMS

1. A computer implemented method, the method comprising:
executing an application process on a first computer system, the first computer system being arranged within a first security zone;
storing access credentials for the application process in a storage device, the storage device being arranged within a second security zone and the first security zone and the second security zone being communicatively coupled via a firewall, wherein the first security zone is communicatively coupled with a third security zone and the application process interacts with a further application process, executing the further application process on a third computer system, the further application process being controlled by a graphical user interface of the further application process, the third computer system being arranged within the third security zone;
executing an application robot on the first computer system, wherein the first computer system is communicatively coupled with the third computer system, the application robot executing the application process, wherein executing the application process comprises simulating steps of a first imaginary user using the graphical user interface of the further application process; and
executing a login into the first computer system from a second computer system for getting access to the application process using the access credentials, the second computer system being arranged within the second security zone, wherein by getting access to the application process the application process can be initialized.
2. The method of claim 1, wherein the firewall is configured such that the login on the first computer system can only be executed from the second computer system.
3. The method of claim 1, wherein the login is performed by a login robot, the login robot simulating steps of a second imaginary user executing the login into the first computer system from the second computer system.
4. The method of claim 1, wherein the application process comprises a graphical user interface.
5. The method of claim 1, wherein the application process comprises a graphical user

interface and the login is performed by a login robot, the login robot simulating steps of a second imaginary user executing the login into the first computer system from the second computer system, the login robot obtaining access to the graphical user interface of the application process and initializing the application process using the graphical user interface of the application process.

6. The method of claim 1, further comprising:

establishing a secure connection between the second computer system and the first computer system and providing access information to the first computer system using the secure connection, the access information providing access to the further application process and in response to receiving the access information, the application robot simulating the steps of the first imaginary user using the graphical user interface of the further application process performing a login into the further application process using the access information, wherein within the first security zone the access information can only be received from the second security zone via the secure connection.

7. The method of claim 1, wherein the first computer system is realized as a dedicated application server.

8. The method of claim 1, wherein the third computer system is realized as a non-dedicated application server.

9. The method of claim 1, wherein the second security zone and the third security zone are only communicatively coupled indirectly via the first security zone.

10. The method of claim 1, wherein an interactive login into the first computer system being executed from the first security zone is disabled.

11. The method of claim 3, wherein executing the login and executing the application robot are scheduled in a queue via a run script, the run script being executed within the first security zone, wherein executing the run script provides an execution of the login followed by an execution of the application robot.

12. The method of claim 1, further comprising:

executing a second application robot on a fourth computer system, the fourth computer system being arranged within the first security zone and communicatively coupled with a fifth computer system, the second application robot executing a second application process, wherein executing the second application process comprises using a graphical user interface of a second further application process and simulating steps of a further first imaginary user using the graphical user interface of the second further application process, the second further application process being operated on the fifth computer system and the second further application process being controlled by the graphical user interface of the second further application process, the fifth computer system being arranged in the third security zone, executing a login into the fourth computer system for getting access to the second application process, wherein by getting access to the second application process the second application process can be initialized, wherein the login into the fourth computer system is performed by a second login robot from the second security zone using second access credentials, the second login robot simulating steps of a further second imaginary user executing the login into the fourth computer system, wherein executing the login into the first computer system and executing the login into the fourth computer system are scheduled via a run script and the second access credentials are stored within the second security zone.

13. The method of claim 3, further comprising:

starting the login robot via a jump server, the jump server being arranged within the first security zone and communicatively coupled via a further secure connection between the first security zone and the third security zone and being accessible from the third security zone via the further secure connection for starting the login robot via the jump server.

14. The method of claim 11, further comprising:

controlling the run script via a jump server, the jump server being arranged within the first security zone and communicatively coupled by a further secure connection between the first security zone and the third security zone and being accessible from the third security zone via the further secure connection for controlling the run script via the jump server.

15. The method of claim 4, further comprising:
storing the access information cryptographically secured within the second security zone.
16. The method of claim 3, further comprising:
executing a login into the login robot using login robot access credentials, wherein the login robot is only accessible by using the login robot access credentials and the login robot access credentials are stored within the second security zone.
17. A computer program product comprising a computer readable storage medium having program instructions embodied therewith, the program instructions executable by a computer to cause the computer to:
execute, by the computer, an application process on a first computer system, the first computer system being arranged within a first security zone;
store, by the computer, access credentials for the application process in a storage device, the storage device being arranged within a second security zone and the first security zone and the second security zone being communicatively coupled via a firewall, wherein the first security zone is communicatively coupled with a third security zone and the application process interacts with a further application process, executing the further application process on a third computer system, the further application process being controlled by a graphical user interface of the further application process, the third computer system being arranged within the third security zone;
execute, by the computer, an application robot on the first computer system, wherein the first computer system is communicatively coupled with the third computer system, the application robot executing the application process, wherein executing the application process comprises simulating steps of a first imaginary user using the graphical user interface of the further application process; and
execute, by the computer, a login into the first computer system from a second computer system for getting access to the application process using the access credentials, the second computer system being arranged within the second security zone, wherein by getting access to the application process the application process can be initialized.

18. A system, comprising:

a computer system comprising: a computer processor, a computer-readable storage medium, and program instructions stored on the computer-readable storage medium being executable by the processor, to cause a computer system to:

execute an application process on a first computer system, the first computer system being arranged within a first security zone;

store access credentials for the application process in a storage device, the storage device being arranged within a second security zone and the first security zone and the second security zone being communicatively coupled via a firewall, wherein the first security zone is communicatively coupled with a third security zone and the application process interacts with a further application process, executing the further application process on a third computer system, the further application process being controlled by a graphical user interface of the further application process, the third computer system being arranged within the third security zone;

execute an application robot on the first computer system, wherein the first computer system is communicatively coupled with the third computer system, the application robot executing the application process, wherein executing the application process comprises simulating steps of a first imaginary user using the graphical user interface of the further application process; and

execute a login into the first computer system from a second computer system for getting access to the application process using the access credentials, the second computer system being arranged within the second security zone, wherein by getting access to the application process the application process can be initialized.