

CLAIMS

1. A method for detecting a software application installed in a computing environment, the method comprising:
 - obtaining a catalog of signatures;
 - scanning the computing environment to obtain information about configuration parameters corresponding to software applications provisioned in the computing environment; and
 - comparing the catalog of signatures with the information comprising configuration parameters to determine the software applications in the computing environment.
2. The method according to claim 1, wherein the computing environment is a cluster-based computing environment comprising one or more clusters.
3. The method according to the preceding claim, wherein the method further comprises:
 - redistributing the determined software applications across different clusters to optimize processing.
4. The method according to any of the preceding claims and with features of claim 2, further comprising:
 - determining which pods in the one or more clusters use objects associated with particular configuration parameters; and
 - comparing outputs of the pods to the catalog of signatures to identify the software application.
5. The method of according to any of the preceding claims and with features of claim 2, wherein the cluster-based computing environment comprises a Kubernetes cluster or a Nomad cluster.

6. The method according to any of the preceding claims, wherein the software application is packaged in a container.

7. The method according to any of the preceding claims, wherein the catalog of signatures includes information comprising at least one of volumes, commands, configuration parameters, and secrets corresponding to the software application.

8. A system for detecting a software application installed in a computing environment comprising one or more processors configured to:

- obtain a catalog of signatures;
- scan the computing environment to obtain information about configuration parameters corresponding to software applications provisioned in the computing environment; and
- compare the catalog of signatures with the information comprising configuration parameters to determine the software applications in the computing environment.

9. The system according to the preceding claim, wherein the computing environment is a cluster-based computing environment comprising one or more clusters.

10. The system according to the preceding claim, wherein the processor is further configured to:

- redistribute the determined software applications across different clusters to optimize processing.

11. The system according to any of the preceding claims 8 to 10 and with features of claim 9, wherein the processor is further configured to:

- determine which pods in the one or more clusters use objects associated with particular configuration parameters; and
- compare outputs of the pods to the catalog of signatures to identify the software application.

12. The system according to any of the preceding claims 8 to 11 and with features of claim 9, wherein the cluster-based computing environment comprises a Kubernetes cluster or a Nomad cluster.

13. The system according to any of the preceding claims 8 to 12, wherein the software application is packaged in a container.

14. The system according to any of the preceding claims 8 to 13, wherein the catalog of signatures includes information comprising at least one of volumes, commands, configuration parameters, and secrets corresponding to the software application.

15. A computer program product for detecting a software application installed in a computing environment, the computer program product comprising a computer readable storage medium having program instructions embodied therewith, the program instructions executable by a processor to:

obtain a catalog of signatures;

scan the computing environment to obtain information about configuration parameters corresponding to software applications provisioned in the computing environment; and

compare the catalog of signatures with the information comprising configuration parameters to determine the software applications in the computing environment.

16. The computer program product according to the preceding claim, wherein the computing environment is a cluster-based computing environment comprising one or more clusters.

17. The computer program product according to the preceding claim, wherein the program instructions are executable to:

redistribute the determined software applications across different clusters to optimize processing.

18. The computer program product according to any of the preceding claims 15 to 17 and with features of claim 16, wherein the program instructions are executable to:

determine which pods in the one or more clusters use objects associated with particular configuration parameters; and

compare outputs of the pods to the catalog of signatures to identify the software application.

19. The computer program product according to any of the preceding claims 15 to 18, wherein the software application is packaged in a container.

20. The computer program product according to any of the preceding claims 15 to 19, wherein the catalog of signatures includes information comprising volumes, commands, configuration parameters, or secrets corresponding to the software application.