

【ABSTRACT】

The present invention provides a method for containerizing an application on a cloud platform, comprising: selecting, by a cloud platform system, a container conversion target from existing applications by considering container/cloud
5 introducing purposes and strategies; analyzing, by the cloud platform system, the target application when the target application is selected; designing, by the cloud platform system, a target application-specific container configuration by considering the separation/integration, association, availability, extendibility, and security; designing, by the cloud platform system, a infrastructure configuration; establishing,
10 by the cloud platform system, a container conversion scheme when the infrastructure configuration is designed; repetitively and incrementally converting, by the cloud platform system, a pre-test (PoC), an application-specific graded conversion, etc.; configuring, by the cloud platform system, a cluster; configuring, by the cloud platform system, an application container and converting an application by changing
15 a setting and a source of the application if necessary; converting, by the cloud platform system, data by converting a target application container, setting a server by a persistence volume setting and the like, extracting data, and transmitting the data to the server; deploying, by the cloud platform system, a verified container to the server, performing an application function and performance test, and reflecting a testing
20 result to the container and the infrastructure; generating, by the cloud platform system, an operation cluster, generating and linking the server based on the conversion-completed image, transferring operation data, and opening the application; performing, by the cloud platform system, application and infrastructure operation monitoring through a cloud monitoring view and reflecting performance
25 issue and error; and reporting, by the cloud platform system, a container transfer result to transfer and apply a development and operation system. According to the present invention, the method for containerizing an application in a cloud platform has effects of providing an isolated application execution environment, allowing independent resource allocation, enabling multiple applications to operate on the
30 same host, allowing fast handling through OS-level virtualization, enabling efficient deployment and updating due to a small size of container image, and allowing the container image to be moved anywhere.