

ABSTRACT

METHOD FOR IMPLEMENTING AUTOMATIC PASSWORD CHANGE HAVING FAULT TOLERANCE MECHANISM FOR CLOUD HOST AND CLOUD BASTION HOST

The present invention relates to the field of cloud computing and information security technologies, and specifically, to a method of implementing automatic password changing with a fault tolerance mechanism for cloud hosts and cloud bastion hosts. In the present invention, open-source cloud bastion hosts are arranged, deployed, and fused by using a cloud computing service. The present invention uses a cloud computing service arrangement to deploy and fuse open-source cloud bastion hosts, so that implements a connection between a cloud computing platform and cloud bastion hosts, and completes automatic synchronization of cloud asset information in the cloud computing platform, and furthermore a fault tolerance mechanism and a password delivery policy of the cloud computing platform are added, which finally implement periodic automatic password changing for the cloud asset information in the cloud computing platform. By adopting : deploying and integrating open-source cloud bastion hosts, the cloud bastion host verification module is developed; a fault tolerance mechanism response rule is established; a response rule for real-time synchronization of the cloud asset information in the cloud computing platform is established; a password changing policy is obtained. and finally an automatic password changing is performed. The present invention implements automatic password changing for the cloud hosts and the cloud bastion hosts, completes random password changes for all cloud resource accounts at the same time, and synchronized with the cloud bastion hosts, and enables a cloud tenant can directly log in to the cloud bastion hoststhrough the cloud platform after automatic password changing.

<Fig.1>