ABSTRACT

Embodiments of the present application provide a method for expanding a public cloud, a device, a system, and a storage medium. In the embodiments of the present application, an expanded available zone is created for the public cloud, and the expanded available zone is deployed in a user machine room, so that a hardware facility of the public cloud is deployed to the user machine room in a software-hardware integration manner, which can meet requirements of users for data security, data local processing, low latency, etc. By managing the expanded available zone into the public cloud, the users can locally have usage experience that is consistent with that of the public cloud, and a boundary of the public cloud is expanded. Taking the expanded available zone as an untrusted environment, identity authentication is performed on a physical device in the expanded available zone through a security gateway deployed in the public cloud, to establish a secure tunnel between the physical device in the expanded available zone and the security gateway, and to strictly verify inbound and outbound traffic between the expanded available zone and the public cloud based on the security gateway, so that security of a process of expanding the public cloud can be ensured.

Fig. 1