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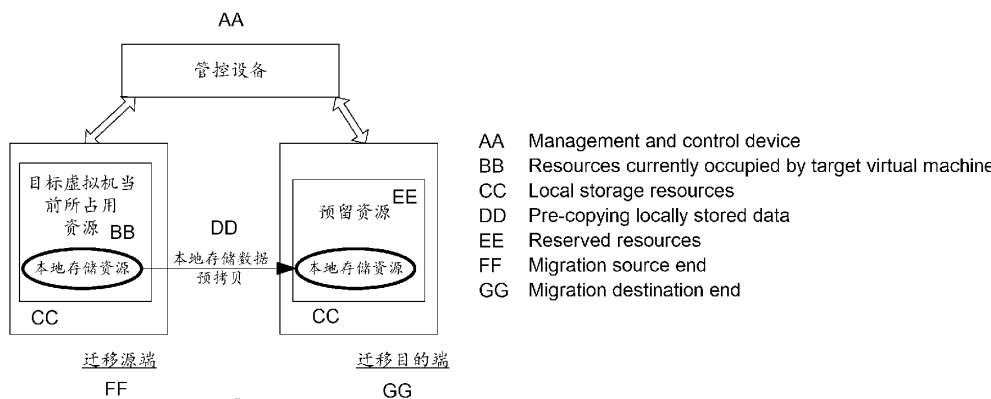


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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

(54) Title: VIRTUAL MACHINE MIGRATION METHOD, AND DEVICE AND STORAGE MEDIUM

(54) 发明名称: 一种虚拟机的迁移方法、设备及存储介质



(57) Abstract: A virtual machine migration method, and a device and a storage medium. Insofar as a target virtual machine is kept bound to resources currently occupied by the target virtual machine in a migration source end, reserved resources are allocated to the target virtual machine from a migration destination end, so that the target virtual machine can normally run at the migration source end while not being interfered with by the reserved resources, and the right of occupation of the reserved resources can be obtained without migration. On this basis, corresponding locally stored data of the target virtual machine in the migration source end can be copied into the reserved resources in the running process of the target virtual machine. In this way, during the downtime of the target virtual machine, a very small amount of locally stored data needs to be migrated, and the time consumed by migration of the locally stored data is independent of a migration execution period of the virtual machine; thus, the length of downtime of the virtual machine in the migration process can be effectively reduced.

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(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 一种虚拟机的迁移方法、设备及存储介质。在将目标虚拟机保持绑定于其在迁移源端中当前所占用资源的前提下, 从迁移目的端中为目标虚拟机分配预留资源, 这使得目标虚拟机能够在迁移源端正常运行而不受预留资源的干扰, 且无需迁移即可获得对预留资源的占用权。在此基础上, 可在目标虚拟机运行过程中将其在迁移源端中对应的本地存储数据拷贝至预留资源中。这样, 在目标虚拟机停机期间, 所需迁移的本地存储数据将非常少量, 本地存储数据的迁移耗时独立于虚拟机迁移执行周期之外, 因此, 可有效降低虚拟机迁移过程中的停机时长。