

?? Overcommitting ??? KVM hypervisor ???????? CPU ? Memory ???????????? qual-core CPU??? guest ?????  
vCPU ?????? 4 vCPU?RAM ?????????????????????? Overcommitting ??????????????????????????????????

Tip: Xen hypervisor ??? CPU Overcommitting?

???? RedHat ????????

<http://www.redhat.com/docs/en-US/Red... with KVM.html>

### Overcommitting virtualized CPU

1. ??? guest ??? vCPU ??? CPU ??? CPU??? 100% ??????????????
2. ?????? vCPU ??? guest ??? vCPU?Linux ?????????????????????? 100% ?? 5 vCPU ?????? 1 vCPU??????  
??
3. ?????????????????? core ?????? vCPU ?????? 4 vCPU ? guest ?????? dual-core CPU ??????????????????  
??
4. ?? vCPU ???????? CPU ??????????????????????

### Overcommitting virtualized RAM

????????????????????? 100% RAM ?????? guest ??? RAM ???????

?? guest ?????????????????????????????????? Swap????????? RAM + Swap ?????? guest ??? RAM?????????

????? Swap ?????????????? pdflush ?? swapping????????????????????? guest ?????

?? Swap ???????

### 0.5 ? RAM?? ?overcommit ratio ? RAM?= Recommended swap size

?? RAM = 8 G

???? Guest ??? RAM = 2G x 5 = 10G

0.5 ? 8G ? (10-8)G = 6G