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## Seamlessly update hypervising kernel

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Discuss two possible approaches to live update Linux that runs as a hypervisor without a noticeable effect on running Virtual Machines (VM). One method is to use cooperative multi-OSing paradigm to share the same machine between two kernels while the new kernel is booting, and the old kernel is still serving the running VM instances. Allow the new kernel to live migrate the drivers from the old kernel by using shadow class drivers, and later do the live migration of running VMs without copying their memory. The second method is to boot new kernel in a fully virtualized environment, that is the same as the underlying hardware, live migrate the VMs into the newly booted hypervisor, and make the hypervisor transition from the VM environment to bare metal.

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**Session Classification:** Performance and Scalability MC