

ProActive & Virtualization

How to leverage all current capabilities offered by free
and common virtualization softwares...

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Virtualization

Current trend:

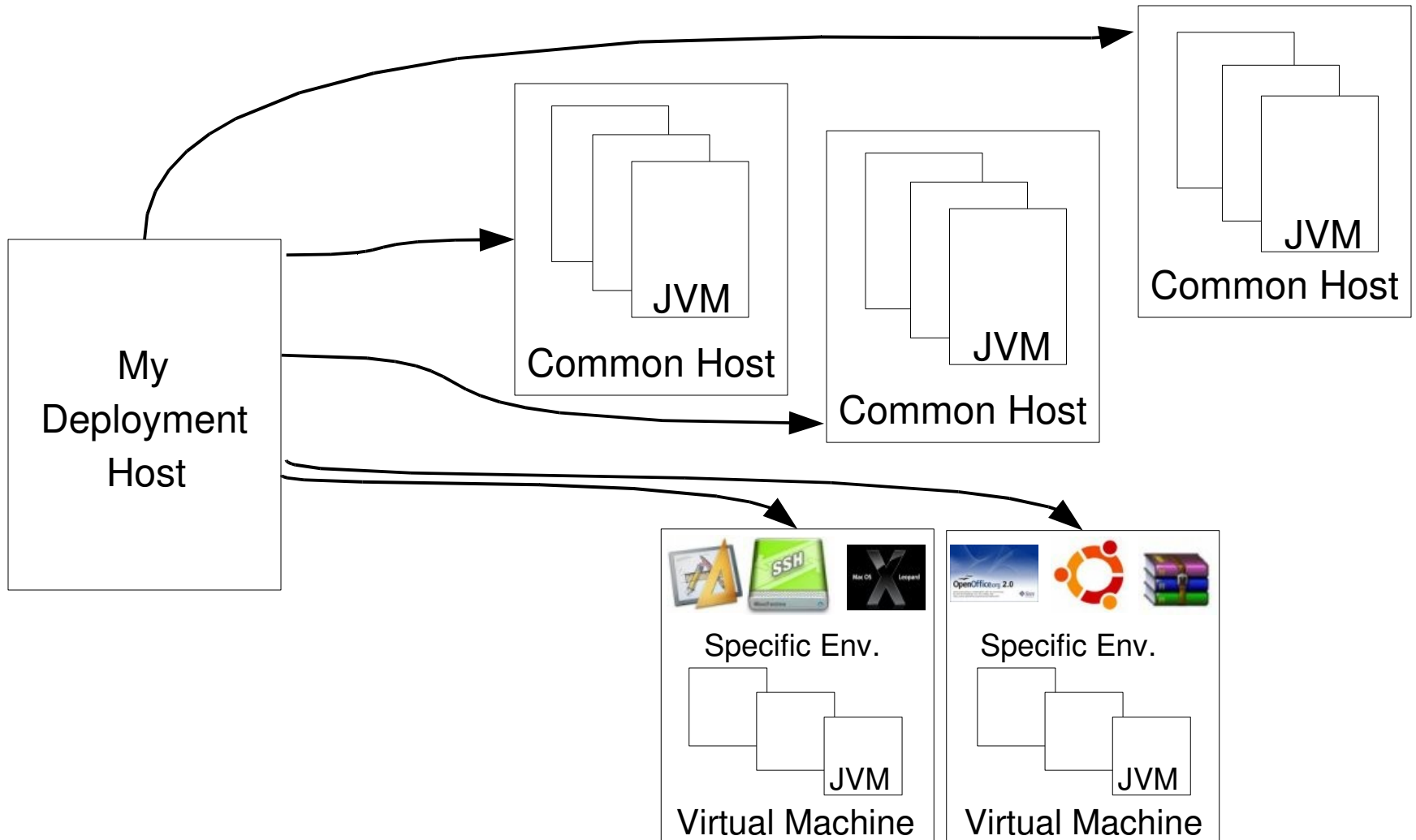
- To adopt Green IT
- To make Desktop management easier
- To make services more isolated, reactive, streamlined...

To satisfy every potential market, principle virtualization software editors ship their products with an SDK.

IDEA: use it to build an underlay API for ProActive, being able to deploy virtualized environment on demand.



Typical Use case



Virtualization Actors

Our current API handles:

VMware suite:

- VMware Server
- VMware Workstation
- VMware ESXi

Sun:

- xVM VirtualBox OSE
- xVM VirtualBox

Using Libvirt project:

- XEN 3, KVM, QEmu, LXC, OpenVZ

Forthcoming?:

- Sun xVM Server, Microsoft Hyper-V



How To?

At this time, we don't provide software setup, that means:

- Build your virtualization software environment.
- Use bridge mode to plug your virtuals into the network.
- Put the compulsory lib within your virtuals.

Then, using our API:

- Connect to your management interface.
- Power on the guest systems.
- Launch your application.



Example

```
VMwareVMM vmm = new
    VMwareVMM("https://someHost:somePort/sdk", "user", "pwd",
    0, VMwareVMM.serviceServerVI);
ArrayList<VMwareVM> vms = vmm.getVirtualMachines();
for(VMwareVM vm:vms)
    vm.powerOn();
/**
 * Your app code here
 */
for(VMwareVM vm:vms)
    vm.powerOff();
```

