

Do you need  
to virtualize  
the whole system  
or some process?

Virtualization  
whole system

What is your  
main necessity?

Portability

Have you a  
dedicated computer?

yes

Use  
Hypervisor  
Type I  
With  
Use  
Dynamic Binary  
Translation

- VMware ESX

No

Isolation

Use  
Dynamic Binary  
Translation  
Like  
- VMware Workstation  
- VMware Fusion  
- Oracle VirtualBox  
- Parallel Desktop

Easy  
Implementation

Use  
Hypervisor  
Type II

ask

Have you a hardware  
with support for  
virtualization technology?

No

Yes

Use  
Hardware  
Assisted  
Like

- KVM  
- VMware Workstation  
- VMware Fusion  
- Oracle VirtualBox  
- Parallel Desktop

High  
Performance

Use  
Hypervisor  
Type I

ask

Have you a hardware  
with support for  
virtualization technology?

yes

No

Use  
Hardware  
Asisted  
Like

- KVM  
- Hyper-V  
- Xen  
- VLX

Use  
Dynamic Binary  
Translation  
Like  
- VMware ESX

Virtualization  
some process

What is your  
main necessity?

Different  
ISA

Use  
Dynamic  
Translation

With

High  
Performance  
Use  
OS Virtualiztion  
Like  
- Singularity

Use  
ISA & ABI  
Translator  
Like  
- FX!32

Use  
High LevenL  
Language  
Like  
- JVM  
- .Net

portability

Easy  
Implementation

Use  
OS Virtualization

Like

- Docker

Different OS

Use  
Translator

Like

- WABI  
- WINE