KVM Virtual machine ??????? XML ????.???? Virtual Machine ?????? /etc/libvirt/qemu.??????????.

```
<domain type='kvm'>
 <name>RHEL5</name>
 <uuid>d00cfc2e-12e1-6363-63fc-ba565b71d6d9</uuid>
 <memory>524288</memory>
 <currentMemory>524288</currentMemory>
 <vcpu>1</vcpu>
```

- **name**
  ??? virtual Machine ???,???????? virtual Machine ????????.?????????.

- **uuid**
  ???????(Universally Unique Identifier,UUID),?????????? uuid ????? virtual Machine.

- **maxmem**
  ????????????? virtual Machine ?????????,??????????????????,????????????????? virtual Machine ??? ??.

- **currentMemory**
  ?? virtual Machine ???????????.

- **vcpus**
  ? virtual Machine ?????? CPU ??.

```
<os>
  <type arch='x86_64' machine='pc'>hvm</type>
  <boot dev='hd'/>
</os>
<features>
  <acpi/>
  <apic/>
  <pae/>
</features>
```

- **acpi**
  Advanced Configuration and Power Interface (ACPI) ?????????

- **APIC**
  Advanced Programmable Interrupt Controller (APIC) ??? IRQ ???

- **PAE**
  hysical Address Extension (PAE) ? 32bit ? virtual machine ???? 4GB ??????.

```
<clock offset='utc'/>
<on_poweroff>destroy</on_poweroff>
<on_reboot>restart</on_reboot>
<on_crash>restart</on_crash>
```

- **clock offset**
  ??? RTC(real-time clock) ?? utc ??.

- **on_poweroff / on_reboot / on_crash**
  ???? poweroff / on_reboot / on_crash VM ????????,??? poweroff ?? destory ????? poweroff ???? VM
  ???????????????,? reboot/crash ??? VM ????.

```
<devices>
 <emulator>/usr/libexec/qemu-kvm</emulator>
 <disk type='block' device='disk'>
  <source dev='/dev/VolGroup01/rhel5'/>
  <target dev='hda' bus='ide'/>
 </disk>
 <disk type='file' device='cdrom'>
  <target dev='hdc' bus='ide'/>
  <readonly/>
 </disk>
```

- **emulator**
  ??????? Linux ????????????(components) qemu + kvm ,????? kqemu,????????????????.

- **disk type**
  ??? virtual Machine ????????????????????? image ???.
  1.?? (device='disk') ???? partition (/dev/VolGroup01/rhel5) ???? image ???.
  block ???? partition ,file ???? image ???.
  2.???? (device='cdrom') ???????? image ?????????? <readonly/>.
  <target> ??? virtual machine ?????????????? ??.

```
<interface type='network'>
 <mac address='54:52:00:75:98:d3'/>
 <source bridge='default'/>
</interface>
<interface type='bridge'>
 <mac address='54:52:00:75:98:d3'/>
 <source bridge='bri0'/>
</interface>
```

- **interface type**
  interface type ??? . 1.Virtual network (type=network) ?? NAT+ DHCP ????? 2.Shared physical
  device(type=bridge) ?? bridge ???????,????? http://benjr.tw/?q=node/537

```
<serial type='pty'>
 <target port='0'/>
</serial>
<console type='pty'>
 <target port='0'/>
</console>
```

```
  <input type='mouse' bus='ps2'/>
  <graphics type='vnc' port='-1' autoport='yes' keymap='en-us'/>
 </devices>
</domain>
```

- **keymap**

????????????????,???????? US keymap.

- **serial**

?????? serial console ?????? pty(Pseduo Tty) ?? vc(Virtual console)