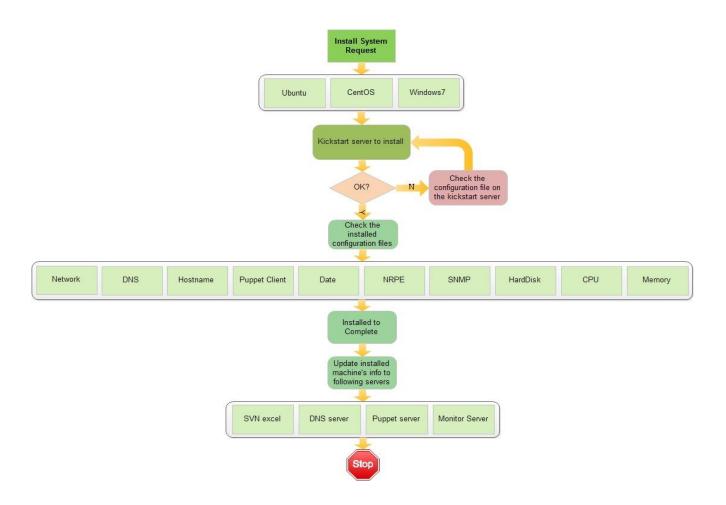
# Regarding the install system flow



## 1. Install the Ubuntu system

 $[root@kvm14 \sim] # virt-install -n omptest01 -r 4096 --vcpus=4 --arch=x86_64 --os-type=linux --pxe --vnc --vncport=6942 --vnclisten=0.0.0.0 -f /dev/vg0/omptest01 -w bridge=br0 -noautoconsole$ 

## 2. Install the Centos system

Actual installation virtual machine example---Need to install a centos64 bit system, 12 GB of memory, 4 CPU in the physical machine (KVM15).

\*The first step to login the kickstart server and Configured to install the information of the machine

\*Please open the following link for how to edit the ks configuration file, only need to change the ip and the hostname is ok.

Lab: http://192.168.107.61/ks/ks.php?ip=192.168.107.253&hostname=test01.cmrilab.com

Chinachace: http://192.168.80.5/ks/ks.php?ip=192.168.80.88&hostname=test01.tzidc.com

\*The second step to login physical machines need to install the virtual machine [root@kvm15 ~]#pvcreate /dev/sdb1 [root@kvm15 ~]#vgcreate vg0 /dev/sdb1

#### 3. Install the Windows7 system

[root@kvm19 ~]#virt-install --connect qemu:///system -n loadrunner01 -r 4096 --vcpus=4 --disk=/dev/vg0/loadrunner01 -rcdrom=/qemu/windows2003sp1.iso --vnc --vnclisten=192.168.107.44 --vncport=5903 --noautoconsole --os-type windows --accelerate --network bridge=br0 --hvm --os-variant=win7

#### 4. Kickstart Server

\*Lab (192.168.107.61)

\*Chinacache (192.168.80.5)

## 5. How to checking the configuration file on the kickstart server

### 6. Check the installed configuration file

```
*Network (/etc/sysconfig/network-scripts/ifcfg-eth0)
*DNS (/etc/resolv.conf)
*HostName (/etc/hosts)
*Puppet (/etc/init.d/puppet status)
*Nrpe (rpm -qa | grep nrpe)
*Snmp (rpm -qa | grep snmp)
*Cpu (/proc/cpuinfo)
*HardDisk (fdisk -l)
*Memory (/proc/meminfo)
*Date (ntpdate ntpserver's ipaddress)
```

There is a scripts can automatically check the basic information of the machine:

```
ONBOOT="yes"
   IPV6INIT="yes"
   HOSTNAME=puppet01.cmrilab.com
   nameserver 192.168.107.65
   puppet (pid 14387) is running...
   Tue May 13 16:19:28 CST 2014
   nagios-nrpe-2.14-1.el6.rf.x86_64
   net-snmp-5.5-44.el6.x86 64
   net-snmp-utils-5.5-44.el6.x86_64
   net-snmp-devel-5.5-44.el6.x86_64
   net-snmp-libs-5.5-44.el6.x86_64
   Processor:2
   MemTotal:1922572kB
   Disk /dev/sda: 53.7 GB, 53687091200 bytes
   /dev/sda1
                             13
                                  102400 83 Linux
   /dev/sda2
                            6528
                                  52325376 8e Linux LVM
   Please enter the ip address of the need to check the system:
7. Updates are installing the machine's info to each server
                (http://192.168.80.62/netops/)
   *SVN server
      With SVN client to update the corresponding installation machine information
   *DNS server
                (lab:192.168.107.65
                                   chinachache:192.168.80.7)
      According to the rules of the DNS server, add the forward and the reverse of the DNS
   *Puppet server
                  (lab:192.168.107.62
                                       chinachache:192.168.80.8)
    The first step to Certificate to sign:
       [root@puppet01 classes]# puppet cert list
      "agent01.ada.com"
                                                                                  (SHA256)
    22:59:8E:18:7B:3B:D6:F6:10:6A:88:EE:DF:8D:CD:E2:7D:7B:42:BD:FE:B2:A1:D2:2A:1F:F1:02:1F:B6:2D:F4
       [root@puppet01 classes]# puppet cert sign agent01.ada.com
      Notice: Signed certificate request for agent01.ada.com
      Notice:
                 Removing
                               file
                                        Puppet::SSL::CertificateRequest
                                                                    agent01.ada.com
   '/etc/puppet/ssl/ca/requests/agent01.ada.com.pem'
    The second step to configuration the puppet file:
```

[root@puppet01 classes]# pwd

/etc/puppet/manifests/classes

```
[root@puppet01 classes]# ls
     nodes-kvm-aoi.pp nodes-vm-aoi1.pp
                                               nodes-vm-fpploc.pp nodes-vm-omp.pp nodes-vm-sso.pp
     nodes-kvm-sys.pp nodes-vm-aoi.pp
                                               nodes-vm-inappbilling.com.pp nodes-vm-open.pp nodes-vm-sys.pp
     nodes-vm-ada.pp nodes-vm-apkprotect.pp nodes-vm-internetplatform.pp nodes-vm-oss.pp
    [root@puppet01 classes]# vim nodes-vm-ada.pp
    node 'agent01.ada.com' {
    include users::netops
   include users::dev_ada
    include users::qa
   include sudo
   include ntp
    include nagios-nrpe
   include snmpd
   }
More info about the Puppet , please click <a href="here">here</a>.
```

\*Monitor server

Please open the following link for how to add monitoring:

http://192.168.80.62/netops/%E4%BA%92%E8%81%94%E7%BD%91%E5%B9%B3%E5%8F%B0%E7%B3%BB%E7%BB%9F%E9%83%A8Nagios%E5%AE%89%E8%A3%85%E9%85%8D%E7%BD%AE%E6%89%8B%E5%86%8Cv0.1.0.doc