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How to create a vCAC 6 Linux Guest Agent Template

Posted on [February 7, 2014](#) by [Ryan Kelly](#) —

In this example I am configuring a Linux Template that will be used to create a vCAC 6 Blueprint. This is using a vSphere 5.x VM. Start with a fresh build of Linux with VMware tools installed.

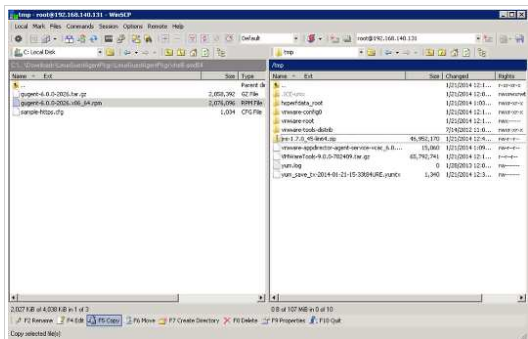
NOTE: You if you are using vCAC (vRA) with a Windows 2012 IaaS server you will need to disable TLS 1.2 on that server for the guest agent to work.

<http://support.microsoft.com/kb/245030>

Start by downloading the Linux Guest agent packages from the vCAC appliance home page. Download the Linux Guest agents from <https://FQND-of-vCACappliance:5480/installer/>



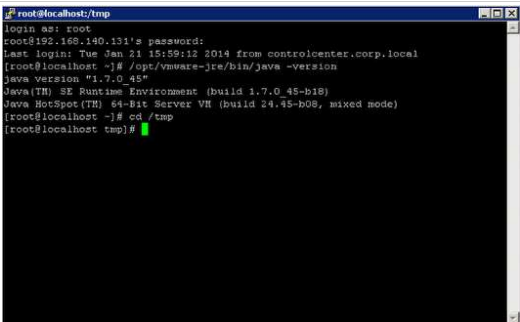
Unzip the Linux guest agents zip file to a folder on your hard drive and use WINSOCP to transfer the correct agent to your Linux Server. You can download WINSOCP for free at the link below



[Get WINSOCP Free here](#)

Now use PUTTY to open an SSH session, login as ROOT and change to the /tmp directory You can

download Putty For free at the link below




```
root@localhost:/tmp
login as: root
root@192.168.140.131's password:
Last login: Tue Jan 21 15:59:12 2014 from controlcenter.corp.local
[root@localhost ~]# /opt/vmware-jre/bin/java -version
java version "1.7.0_45"
Java(TM) SE Runtime Environment (build 1.7.0_45-b18)
Java HotSpot(TM) 64-Bit Server VM (build 24.45-b08, mixed mode)
[root@localhost ~]# cd /tmp
[root@localhost tmp]#
```

[Get Putty for Free](#)

Run the following command to install the vCAC

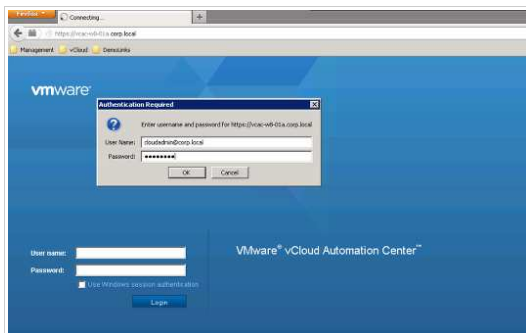
Guest agent rpm -i gugent-6.0.0-2026.x86_64.rpm



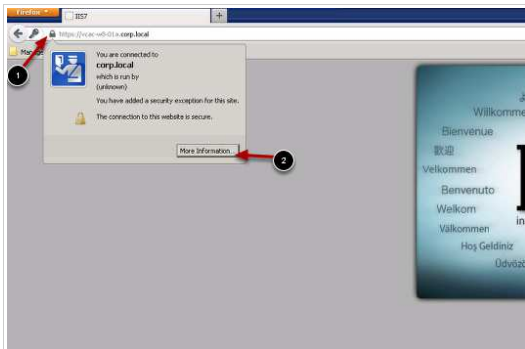
```
root@localhost:/tmp
login as: root
root@192.168.140.131's password:
Last login: Tue Jan 21 16:30:19 2014 from controlcenter.corp.local
[root@localhost ~]# cd /tmp
[root@localhost tmp]# rpm -i gugent-6.0.0-2026.x86_64.rpm
[root@localhost tmp]#
```

```
rpm -i gugent-6.0.0-2026.x86_64.rpm
```

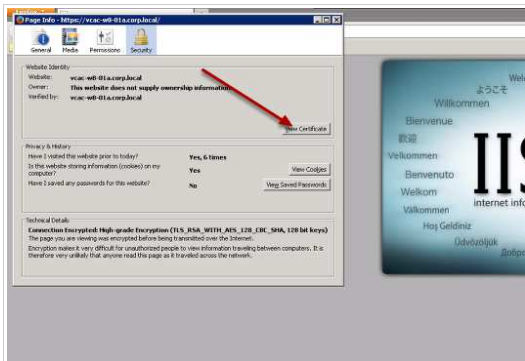
Now we need to make sure the SSL certificate is available on the Linux Template you are creating, open firefox to your FQDN of your vCAC IaaS box and login as your cloud admin for example <https://vcac-w8-01a.corp.local>



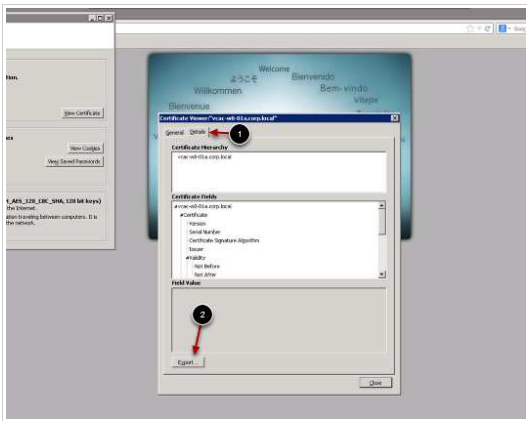
Click the Lock and then click more information



Now click View Certificate



On the next screen click the Details tab, then click export

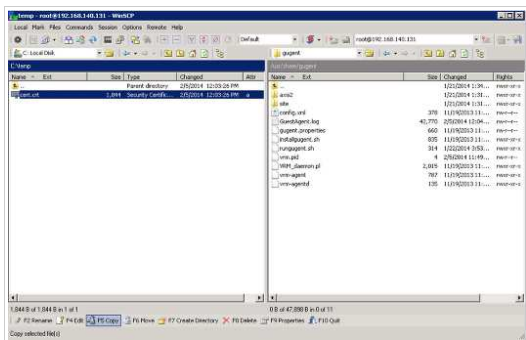


Now click Export and save the file to your desktop, make sure to save as cert and type X.509 Certificate (PEM)

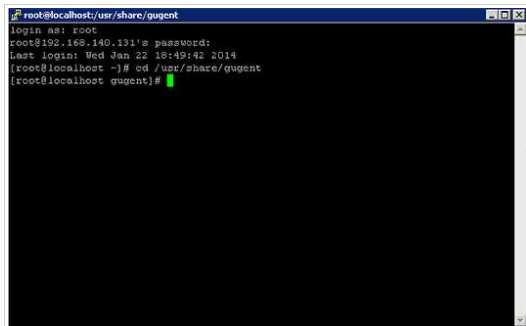


Now use WinSCP to copy the cert.crt file to your

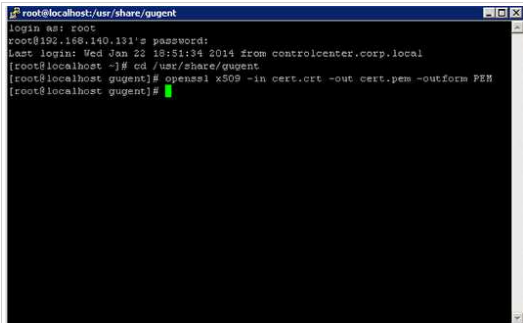
Linux template to the /usr/share/gugent directory



Now go back to your putty session of your Linux template and type `cd /usr/share/gugent` and press enter



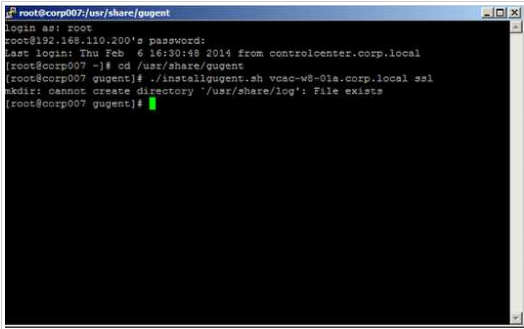
Now run the command `openssl x509 -in mycert.crt -out mycert.pem -outform PEM`

A terminal window titled "root@localhost:/usr/share/gugent" showing the following text:

```
login as: root
root@192.168.140.131's password:
Last login: Wed Jan 22 18:51:34 2014 from controlcenter.corp.local
[root@localhost ~]# cd /usr/share/gugent
[root@localhost gugent]# openssl x509 -in cert.crt -out cert.pem -outform PEM
[root@localhost gugent]#
```

```
openssl x509 -in cert.crt -out cert.pem -outform PEM
```

Now we are ready to register the Guest agent with your vCAC Windows Server type `./installgugent.sh FQDNofyourvcacaaSWindowsServer ssl` and press enter for example `./installgugent.sh vcac-w8-01a.corp.local:443 ssl`

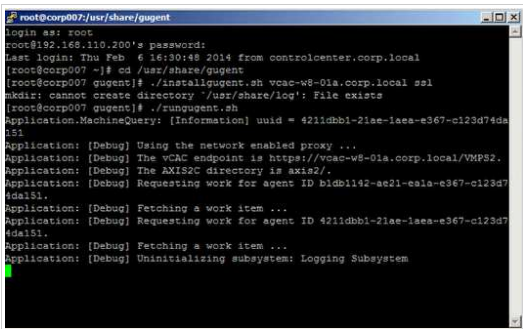


```
root@corp007:/usr/share/guagent
login as: root
root@192.168.110.200's password:
Last login: Thu Feb  6 16:30:48 2014 from controlcenter.corp.local
[root@corp007 ~]# cd /usr/share/guagent
[root@corp007 guagent]# ./installguagent.sh vcac-w8-01a.corp.local ssl
mkdir: cannot create directory '/usr/share/log': File exists
[root@corp007 guagent]#
```

```
./installguagent.sh vcac-w8-01a.corp.local:443 ssl
```

type `./runguagent.sh` to test the installation

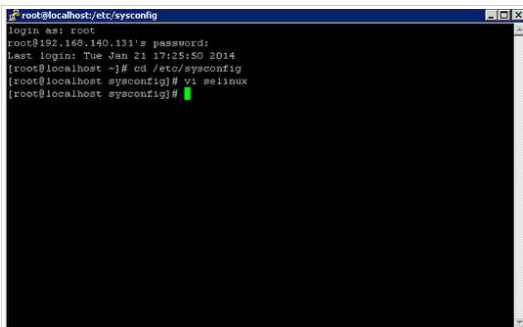
Please NOTE: Verify that the vCAC endpoint is displayed as `https://vcac-WindowsboxFQD/VMPS2` if not the agent will not function and provisioning will be stuck at CustomizeOS. See my example below.



```
root@corp007:/usr/share/gugent
login as: root
root@192.168.110.200's password:
Last login: Thu Feb  6 16:30:48 2014 from controlcenter.corp.local
[root@corp007 ~]# cd /usr/share/gugent
[root@corp007 gugent]# ./installgagent.sh vcac-w8-01a.corp.local ssl
mkdir: cannot create directory '/usr/share/log': File exists
[root@corp007 gugent]# ./rungagent.sh
Application.MachineQuery: [Information] uuid = 4211dbb1-21ae-1aea-e367-c123d74da
151
Application: [Debug] Using the network enabled proxy ...
Application: [Debug] The vCAC endpoint is https://vcac-w8-01a.corp.local/VMP52.
Application: [Debug] The XXIS2C directory is axis2/.
Application: [Debug] Requesting work for agent ID b1db1142-ae21-ea1a-e367-c123d7
4da151.
Application: [Debug] Fetching a work item ...
Application: [Debug] Requesting work for agent ID 4211dbb1-21ae-1aea-e367-c123d7
4da151.
Application: [Debug] Fetching a work item ...
Application: [Debug] Uninitializing subsystem: Logging Subsystem
```

`./rungagent.sh`

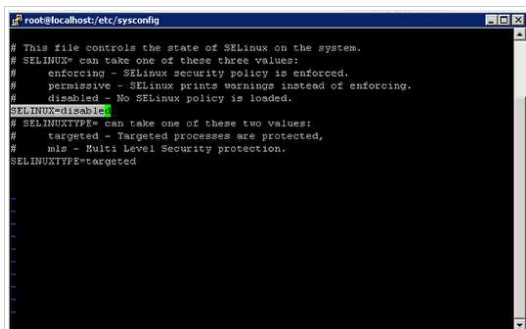
The Guest agent requires SELinux to be disabled
change directory to `/etc/sysconfig` and edit the
selinux file



```
root@localhost:/etc/sysconfig
login as: root
root@192.168.140.131's password:
Last login: Tue Jan 21 17:25:50 2014
[root@localhost ~]# cd /etc/sysconfig
[root@localhost sysconfig]# vi selinux
[root@localhost sysconfig]#
```

Change the following line to disabled and save the

file by pressing the ESC key then hold shift and type ZZ.



```
root@localhost:/etc/sysconfig
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing.
#   disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of these two values:
#   targeted - Targeted processes are protected,
#   mls - Multi Level Security protection.
SELINUXTYPE=targeted
```

NOTE: If you are using RHEL/CENTOS 6.5 or higher you will also need to install the demicode package.

Type:

```
yum -y install demicode
```

Press enter

Shutdown your Linux Server by typing shutdown now and press enter

You can now create a template or make a vCenter Snapshot to create a linked clone in vCAC [Learn how to Create a Linked Clone Here](#)



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