Virtualització amb Proxmox VE

Instal.lació

1.- descarrega de proxmox-ve\_4.4-eb2d6f1e-2.iso comunity edition de la web de proxmox i ho gravem a un dvd

2.- instalacio de dues maquines

172.20.16.197 (PE sc1435, 8Gb de ram, 2 hd 1Tb )

172.20.16.196 (PE 2950, 16Gb RAM, 1 hd 500Gb)

Atencio: els nodes han d'estar en la mateixa xarxa i despres no es pot canviar la IP.

3.- fem login via ssh al primer node que hem instalat

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| --- |
| [alfons@moebius ~]$ ssh root@172.20.16.197 |

4.- creem el cluster (Atencio: el nom NO es pot canviar despres)

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| --- |
| root@pve:~# pvecm create VE-Beta  Corosync Cluster Engine Authentication key generator.  Gathering 1024 bits for key from /dev/urandom.  Writing corosync key to /etc/corosync/authkey.  root@pve:~# |

5.- comprovem:

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| --- |
| root@pve:~# pvecm status  Quorum information  ------------------  Date: Thu Mar 30 16:34:28 2017  Quorum provider: corosync\_votequorum  Nodes: 1  Node ID: 0x00000001  Ring ID: 1/4  Quorate: Yes  Votequorum information  ----------------------  Expected votes: 1  Highest expected: 1  Total votes: 1  Quorum: 1  Flags: Quorate  Membership information  ----------------------  Nodeid Votes Name  0x00000001 1 172.20.16.197 (local)  root@pve:~# |

6.- ens connectem al segon node

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| --- |
| [alfons@moebius ~]$ ssh root@172.20.16.196  The authenticity of host '172.20.16.196 (172.20.16.196)' can't be established.  RSA key fingerprint is de:e8:da:50:93:d0:5a:64:8b:c0:25:14:a8:12:93:d3.  Are you sure you want to continue connecting (yes/no)? yes  Warning: Permanently added '172.20.16.196' (RSA) to the list of known hosts.  root@172.20.16.196's password:  Warning: untrusted X11 forwarding setup failed: xauth key data not generated  Warning: No xauth data; using fake authentication data for X11 forwarding.  The programs included with the Debian GNU/Linux system are free software;  the exact distribution terms for each program are described in the  individual files in /usr/share/doc/\*/copyright.  Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  permitted by applicable law.  /usr/bin/xauth: file /root/.Xauthority does not exist  root@pve1:~# |

7.- l'afegim al cluster

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| --- |
| root@pve1:~# pvecm add 172.20.16.197 (La ip del primer node)  The authenticity of host '172.20.16.197 (172.20.16.197)' can't be established.  ECDSA key fingerprint is ff:a7:00:73:a8:02:af:7c:8c:27:85:d3:94:d2:10:e6.  Are you sure you want to continue connecting (yes/no)? yes  root@172.20.16.197's password:  copy corosync auth key  stopping pve-cluster service  backup old database  waiting for quorum...OK  generating node certificates  merge known\_hosts file  restart services  successfully added node 'pve1' to cluster.  root@pve1:~# |

8.- tornem a mirar l'status:

|  |
| --- |
| root@pve:~# pvecm status  Quorum information  ------------------  Date: Thu Mar 30 16:37:08 2017  Quorum provider: corosync\_votequorum  Nodes: 2  Node ID: 0x00000001  Ring ID: 2/8  Quorate: Yes  Votequorum information  ----------------------  Expected votes: 2  Highest expected: 2  Total votes: 2  Quorum: 2  Flags: Quorate  Membership information  ----------------------  Nodeid Votes Name  0x00000002 1 172.20.16.196  0x00000001 1 172.20.16.197 (local)  root@pve:~# |

9.- si volem llistar els nodes:

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| --- |
| root@pve:~# pvecm nodes  Membership information  ----------------------  Nodeid Votes Name  2 1 pve1  1 1 pve (local)  root@pve:~# |

10.- Per gestio via GUI:

<https://172.20.16.197:8006/>

Ja podem instal.lar VMs o Containers

Importar una VM ja existent (kvm)

1.- definim un directori per imatges (si no en tenim ja un)

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| --- |
| root@pve:~# pvesm add dir local2 --path /var/imatges/  root@pve:~# cat /etc/pve/storage.cfg  dir: local  path /var/lib/vz  content backup,iso,vztmpl  lvmthin: local-lvm  thinpool data  vgname pve  content images,rootdir  dir: local2  path /var/imatges/  root@pve:~# pvesm set local2 --content images  root@pve:~# cat /etc/pve/storage.cfg  dir: local  path /var/lib/vz  content iso,backup,vztmpl  lvmthin: local-lvm  vgname pve  thinpool data  content images,rootdir  dir: local2  path /var/imatges/  content images  root@pve:~#  root@pve:~# ls /var/imatges/  dump images private |

2.- creem una VM a traves del GUI definint com storage **local2,** això genera un fitxer

|  |
| --- |
| root@pve:~# ls /var/imatges/images/102/  vm-102-disk-1.raw |

3.- sobreescrivim aquest fitxer amb el .img que teniem (si fos qcow2 hauriem d’haver-ho especificat al crear el disc de la VM)

|  |
| --- |
| [root@pursang ~]# scp /home/vm/kvm/w3test.img root@172.20.16.197:/var/imatges/images/102/vm-102-disk-1.raw |

3.- engeguem la màquina i a veure que...