



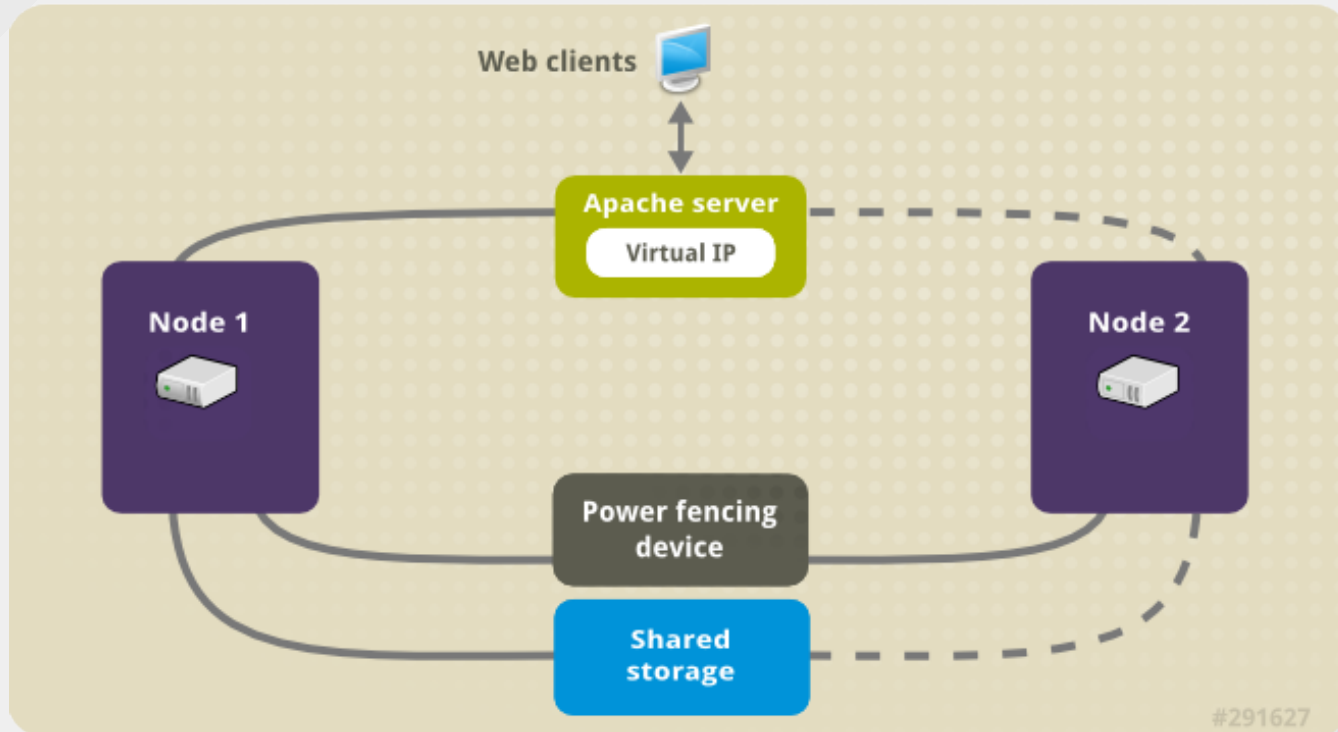
# CREATING HIGH- AVAILABILITY CLUSTERS WITH ANSIBLE

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# WHAT WE WILL CREATE

**2-NODE PACEMAKER CLUSTER WITH SHARED STORAGE  
RUNNING APACHE ON FAILOVER IP ADDRESS PROVIDING  
WEBPAGE FROM SHARED STORAGE USING ONLY ANSIBLE**



[https://access.redhat.com/documentation/en-US/Red\\_Hat\\_Enterprise\\_Linux/7/html-single/High\\_Availability\\_Add-On\\_Administration/images/291627-haserver\\_cluster4.png](https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html-single/High_Availability_Add-On_Administration/images/291627-haserver_cluster4.png)

# WHAT WE WILL NEED

- \*2 virtual machines (VMs) with CentOS 7.X in libvirt
- 1 additional disk shared between them (1GB)
  - **`qemu-img create -f qcow2 shared_disk 1G`**
- 'fence-virt' package with libvirt and multicast support
  - **`yum install fence-virt fence-virt-libvirt fence-virt-multicast`**
- Ansible version 2.0+
- \*Ansible roles for creating pacemaker clusters and HALVM
- \*Description of task to do

\* - available on flash drive in the room

# SSH KEYS

- generating SSH key for current user
  - `ssh-keygen`
- adding key to user root on machine to which we wanna use SSH key for login
  - `ssh-copy-id root@192.168.xx.xx`

# FENCE-VIRTD

- Daemon for power fencing VMs usable with libvirt
- Requires shared secret (key) to provide power fencing features
- Generating 'key'
  - `dd if=/dev/urandom of=/etc/cluster/fence_xvm.key bs=4k count=1`



**LETS START WORKING!**



# THANK YOU!

**MATERIALS FROM THIS PRESENTATION WILL BE AVAILABLE AT**

**<https://ssl.famera.cz/blog/computers/devconf-2017.html>**

**TO GET IN TOUCH WITH AUTHOR VIA EMAIL**

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