

组网及说明

当前Primera 版本, OS 4.4.1. 仲裁机操作系统, RHEL8.6

- 1.Primera兼容性, HPE 3PAR OS3.3.2及以上版本。
- 2.Quorum Witness 5.0主机操作系统兼容性, RHEL8.3及以上

Peer Persistence/Active Peer Persistence/Active Sync Replication Quorum Witness

Quorum Witness*	Operating System	Infrastructure	Maximum number of Nodes* (DNS scale-in based on node count not at array level)	Maximum RTT	Peer Persistence Combinations
5.0 <sup>†</sup> (Secure – SSL configuration)	RHEL 8.3 or any higher & x	x86_64 server _VMware Hyper-V for Windows Server	16	250ms	HPE Primera & HPE Primera, HPE Primera & HPE Alletra 9000, HPE Primera & HPE 3PAR 8000/9000/20000 <sup>†</sup>
5.0 <sup>†</sup> (no SSL configuration)	RHEL 8.3 or any higher & x	x86_64 server _VMware Hyper-V for Windows Server	16	250ms	HPE Primera & HPE Primera, HPE Primera & HPE Alletra 9000, HPE Primera & HPE 3PAR 8000/9000/20000 <sup>†</sup>
4.0 <sup>†</sup> (Secure – SSL configuration)	RHEL 7.6 or any higher & x CentOS 7.4 or any higher & x	x86_64 server _VMware Hyper-V for Windows Server	16	250ms	HPE Primera & HPE Primera, HPE Primera & HPE Alletra 9000, HPE Primera & HPE 3PAR 8000/9000/20000 <sup>†</sup>
3.0 (SSL not supported)	RHEL 7.6 or any higher & x CentOS 7.4 or any higher & x	x86_64 server _VMware Hyper-V for Windows Server	16	250ms	HPE Primera & HPE Primera, HPE Primera & HPE Alletra 9000, HPE Primera & HPE 3PAR 8000/9000/20000 <sup>†</sup>

3. 确保没有主机防火墙服务阻止相应端口: 对于 Quorum Witness 5.0.x, 加密连接方式使用的默认端口为 8443。在配置为非加密客户端连接时, Quorum Witness 5.0.x 使用的默认端口为8080

## 配置步骤

1. 以root用户登录仲裁服务器，将Quorum Witness软件的iso文件拷贝到仲裁机。

```
[root@ootpa ~]# ll
total 5400
-rw-----. 1 root  root   1036 Nov 28  2021 anaconda-ks.cfg
-rwxrwxr-x. 1 redford redford 5519360 Nov 30 00:42 HPE_Storage_Quorum_Witness_5.0.000_QR482-11628.iso
-rw-r--r--. 1 root  root    1476 Nov 28  2021 initial-setup-ks.cfg
```

2. 挂载Quorum Witness软件的镜像文件：

```
[root@ootpa ~]# mount -o loop HPE_Storage_Quorum_Witness_5.0.000_QR482-11628.iso /mnt
mount: /mnt: WARNING: device write-protected, mounted read-only.
[root@ootpa ~]# cd /mnt
[root@ootpa mnt]# ls
'HPE Quorum Witness 5.0 ALA.pdf'  qwserv-5.0.002-1.el8.x86_64.rpm
```

3. 使用rpm命令安装Quorum Witness软件的rpm包：

```
[root@ootpa mnt]# rpm -ivh qwserv-5.0.002-1.el8.x86_64.rpm
Verifying...          ##### [100%]
Preparing...         ##### [100%]
Updating / installing...
 1:qwserv-5.0.002-1.el8 ##### [100%]
Expected file is missing: /usr/local/etc/cert.pem
Expected file is missing: /usr/local/etc/cacert.pem
Configure certificate files and start qwserv service with:
  systemctl start qwserv
See Quorum Witness User Guide for complete instructions.
```

4. 把Quorum Witness软件配置成非加密方式：

```
[root@ootpa mnt]# cp /usr/local/etc/qwserv/qwserv.cfg.sample /usr/local/etc/qwserv/qwserv.cfg
[root@ootpa mnt]# cat /usr/local/etc/qwserv/qwserv.cfg
{"ssl":false}
[root@ootpa mnt]# systemctl restart qwserv
```

5. 验证qwserv服务已正常运行：

```
[root@ootpa mnt]# systemctl list-units | grep qwserv
qwserv.service          loaded active running   Quorum Witness server daemon
```

```
[root@ootpa mnt]#
```

6. 开放防火墙的8080端口，确认防火墙的zones。

```
# firewall-cmd --get-active-zones
把8080端口添加到防火墙：
# firewall-cmd --zOne=public --add-port=8080/tcp --permanent
重新加载防火墙：
# firewall-cmd --reload
```

7. 在主备存储端验证到仲裁服务器的联通性：

```
cli% setcopytarget witness check <witness_IP>
如果存储和仲裁服务器联通正常，则会看到如下信息：
Connectivity check passed
```

配置关键点

无

