

# ceph集群+块存储+分布式存储+对象存储

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```
1、创建6台虚拟机, 设置主机名跟Ip  
2、在物理主机上设置名称解析  
for i in {1..6}  
do  
    echo -e "192.168.4.${i}\tnode${i}.tedu.cn\tnode${i}" >> /etc/hosts
```

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## 报错信息

此报错是因为node1-node3没有安装软件包 重新运行 `ceph-deploy install node{1..3}`

```
[root@node1 ceph-clu]# ceph-deploy mon create-initial
[ceph_deploy.conf][DEBUG ] found configuration file at: /root/.cephdeploy.conf
[ceph_deploy.cli][INFO ] Invoked (1.5.33): /usr/bin/ceph-deploy mon create-initial
[ceph_deploy.cli][INFO ] ceph-deploy options:
[ceph_deploy.cli][INFO ] username : None
[ceph_deploy.cli][INFO ] verbose : False
[ceph_deploy.cli][INFO ] overwrite_conf : False
[ceph_deploy.cli][INFO ] subcommand : create-initial
[ceph_deploy.cli][INFO ] quiet : False
[ceph_deploy.cli][INFO ] cd_conf : <ceph_deploy.conf.cephdeploy.Conf instance at 0x7f15c001d200>
[ceph_deploy.cli][INFO ] cluster : ceph
[ceph_deploy.cli][INFO ] func : <function mon at 0x7f15c0013938>
[ceph_deploy.cli][INFO ] ceph_conf : None
[ceph_deploy.cli][INFO ] default_release : False
[ceph_deploy.cli][INFO ] keyrings : None
[ceph_deploy.mon][DEBUG ] Deploying mon, cluster ceph hosts node1 node2 node3
[ceph_deploy.mon][DEBUG ] detecting platform for host node1 ...
[node1][DEBUG ] connected to host: node1
[node1][DEBUG ] detect platform information from remote host
[node1][DEBUG ] detect machine type
[node1][DEBUG ] find the location of an executable
[ceph_deploy.mon][ERROR ] ceph needs to be installed in remote host: node1
[ceph_deploy.mon][DEBUG ] detecting platform for host node2 ...
[node2][DEBUG ] connected to host: node2
[node2][DEBUG ] detect platform information from remote host
[node2][DEBUG ] detect machine type
[node2][DEBUG ] find the location of an executable
[ceph_deploy.mon][ERROR ] ceph needs to be installed in remote host: node2
[ceph_deploy.mon][DEBUG ] detecting platform for host node3 ...
[node3][DEBUG ] connected to host: node3
[node3][DEBUG ] detect platform information from remote host
[node3][DEBUG ] detect machine type
[node3][DEBUG ] find the location of an executable
[ceph_deploy.mon][ERROR ] ceph needs to be installed in remote host: node3
[ceph_deploy][ERROR ] GenericError: Failed to create 3 monitors
```

**此错误可以vim ceph.conf 最下面加入行:**

```
public_network = 192.168.4.0/24
再执行以下命令:
ceph-deploy --overwrite-conf config push node1 node2 node3
```

```

[root@node1 ceph-clu]# ceph-deploy mon create-initial
[ceph_deploy.conf][DEBUG ] found configuration file at: /root/.cephdeploy.conf
[ceph_deploy.cli][INFO  ] Invoked (1.5.33): /usr/bin/ceph-deploy mon create-initial
[ceph_deploy.cli][INFO  ] ceph-deploy options:
[ceph_deploy.cli][INFO  ] username                : None
[ceph_deploy.cli][INFO  ] verbose                : False
[ceph_deploy.cli][INFO  ] overwrite_conf         : False
[ceph_deploy.cli][INFO  ] subcommand             : create-initial
[ceph_deploy.cli][INFO  ] quiet                  : False
[ceph_deploy.cli][INFO  ] cd_conf                :
<ceph_deploy.conf.cephdeploy.Conf instance at 0x28496c8>
[ceph_deploy.cli][INFO  ] cluster                : ceph
[ceph_deploy.cli][INFO  ] func                   : <function mon at
0x283f938>
[ceph_deploy.cli][INFO  ] ceph_conf              : None
[ceph_deploy.cli][INFO  ] default_release        : False
[ceph_deploy.cli][INFO  ] keyrings                : None
[ceph_deploy.mon][DEBUG ] Deploying mon, cluster ceph hosts node1 node2 node3
[ceph_deploy.mon][DEBUG ] detecting platform for host node1 ...
[node1][DEBUG ] connected to host: node1
[node1][DEBUG ] detect platform information from remote host
[node1][DEBUG ] detect machine type
[node1][DEBUG ] find the location of an executable
[ceph_deploy.mon][INFO  ] distro info: Red Hat Enterprise Linux Server 7.4 Maipo
[node1][DEBUG ] determining if provided host has same hostname in remote
[node1][DEBUG ] get remote short hostname
[node1][DEBUG ] deploying mon to node1
[node1][DEBUG ] get remote short hostname
[node1][DEBUG ] remote hostname: node1
[node1][DEBUG ] write cluster configuration to /etc/ceph/{cluster}.conf
[node1][DEBUG ] create the mon path if it does not exist
[node1][DEBUG ] checking for done path: /var/lib/ceph/mon/ceph-node1/done
[node1][DEBUG ] done path does not exist: /var/lib/ceph/mon/ceph-node1/done
[node1][INFO  ] creating keyring file: /var/lib/ceph/tmp/ceph-node1.mon.keyring
[node1][DEBUG ] create the monitor keyring file
[node1][INFO  ] Running command: ceph-mon --cluster ceph --mkfs -i node1 --keyring
/var/lib/ceph/tmp/ceph-node1.mon.keyring --setuser 167 --setgroup 167
[node1][DEBUG ] ceph-mon: mon.noname-a 192.168.4.1:6789/0 is local, renaming to
mon.node1
[node1][DEBUG ] ceph-mon: set fsid to ff979247-1a38-409a-905a-96f8031faf4e
[node1][DEBUG ] ceph-mon: created monfs at /var/lib/ceph/mon/ceph-node1 for
mon.node1
[node1][INFO  ] unlinking keyring file /var/lib/ceph/tmp/ceph-node1.mon.keyring
[node1][DEBUG ] create a done file to avoid re-doing the mon deployment
[node1][DEBUG ] create the init path if it does not exist
[node1][INFO  ] Running command: systemctl enable ceph.target
[node1][INFO  ] Running command: systemctl enable ceph-mon@node1
[node1][WARNIN] Created symlink from /etc/systemd/system/ceph-mon.target.wants/ceph-
mon@node1.service to /usr/lib/systemd/system/ceph-mon@.service.
[node1][INFO  ] Running command: systemctl start ceph-mon@node1
[node1][INFO  ] Running command: ceph --cluster=ceph --admin-daemon

```

```

/var/run/ceph/ceph-mon.node1.asok mon_status
[node1][DEBUG ]
*****
[node1][DEBUG ] status for monitor: mon.node1
[node1][DEBUG ] {
[node1][DEBUG ]   "election_epoch": 0,
[node1][DEBUG ]   "extra_probe_peers": [
[node1][DEBUG ]     "192.168.4.2:6789/0",
[node1][DEBUG ]     "192.168.4.3:6789/0"
[node1][DEBUG ]   ],
[node1][DEBUG ]   "monmap": {
[node1][DEBUG ]     "created": "2018-09-27 17:16:49.856465",
[node1][DEBUG ]     "epoch": 0,
[node1][DEBUG ]     "fsid": "ff979247-1a38-409a-905a-96f8031faf4e",
[node1][DEBUG ]     "modified": "2018-09-27 17:16:49.856465",
[node1][DEBUG ]     "mons": [
[node1][DEBUG ]       {
[node1][DEBUG ]         "addr": "192.168.4.1:6789/0",
[node1][DEBUG ]         "name": "node1",
[node1][DEBUG ]         "rank": 0
[node1][DEBUG ]       },
[node1][DEBUG ]       {
[node1][DEBUG ]         "addr": "0.0.0.0:0/1",
[node1][DEBUG ]         "name": "node2",
[node1][DEBUG ]         "rank": 1
[node1][DEBUG ]       },
[node1][DEBUG ]       {
[node1][DEBUG ]         "addr": "0.0.0.0:0/2",
[node1][DEBUG ]         "name": "node3",
[node1][DEBUG ]         "rank": 2
[node1][DEBUG ]       }
[node1][DEBUG ]     ],
[node1][DEBUG ]     "name": "node1",
[node1][DEBUG ]     "outside_quorum": [
[node1][DEBUG ]       "node1"
[node1][DEBUG ]     ],
[node1][DEBUG ]     "quorum": [],
[node1][DEBUG ]     "rank": 0,
[node1][DEBUG ]     "state": "probing",
[node1][DEBUG ]     "sync_provider": []
[node1][DEBUG ]   }
[node1][DEBUG ]
*****
[node1][INFO ] monitor: mon.node1 is running
[node1][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node1.asok mon_status
[ceph_deploy.mon][DEBUG ] detecting platform for host node2 ...
[node2][DEBUG ] connected to host: node2
[node2][DEBUG ] detect platform information from remote host
[node2][DEBUG ] detect machine type
[node2][DEBUG ] find the location of an executable

```

```

[ceph_deploy.mon][INFO ] distro info: Red Hat Enterprise Linux Server 7.4 Maipo
[node2][DEBUG ] determining if provided host has same hostname in remote
[node2][DEBUG ] get remote short hostname
[node2][WARNIN]
*****
[node2][WARNIN] provided hostname must match remote hostname
[node2][WARNIN] provided hostname: node2
[node2][WARNIN] remote hostname: localhost
[node2][WARNIN] monitors may not reach quorum and create-keys will not complete
[node2][WARNIN]
*****
[node2][DEBUG ] deploying mon to node2
[node2][DEBUG ] get remote short hostname
[node2][DEBUG ] remote hostname: localhost
[node2][DEBUG ] write cluster configuration to /etc/ceph/{cluster}.conf
[node2][DEBUG ] create the mon path if it does not exist
[node2][DEBUG ] checking for done path: /var/lib/ceph/mon/ceph-localhost/done
[node2][DEBUG ] done path does not exist: /var/lib/ceph/mon/ceph-localhost/done
[node2][INFO ] creating keyring file: /var/lib/ceph/tmp/ceph-localhost.mon.keyring
[node2][DEBUG ] create the monitor keyring file
[node2][INFO ] Running command: ceph-mon --cluster ceph --mkfs -i localhost --
keyring /var/lib/ceph/tmp/ceph-localhost.mon.keyring --setuser 167 --setgroup 167
[node2][DEBUG ] ceph-mon: mon.noname-b 192.168.4.2:6789/0 is local, renaming to
mon.localhost
[node2][DEBUG ] ceph-mon: set fsid to ff979247-1a38-409a-905a-96f8031faf4e
[node2][DEBUG ] ceph-mon: created monfs at /var/lib/ceph/mon/ceph-localhost for
mon.localhost
[node2][INFO ] unlinking keyring file /var/lib/ceph/tmp/ceph-localhost.mon.keyring
[node2][DEBUG ] create a done file to avoid re-doing the mon deployment
[node2][DEBUG ] create the init path if it does not exist
[node2][INFO ] Running command: systemctl enable ceph.target
[node2][INFO ] Running command: systemctl enable ceph-mon@localhost
[node2][WARNIN] Created symlink from /etc/systemd/system/ceph-mon.target.wants/ceph-
mon@localhost.service to /usr/lib/systemd/system/ceph-mon@.service.
[node2][INFO ] Running command: systemctl start ceph-mon@localhost
[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[node2][WARNIN] monitor: mon.node2, might not be running yet
[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[node2][WARNIN] monitor node2 does not exist in monmap
[node2][WARNIN] neither `public_addr` nor `public_network` keys are defined for
monitors
[node2][WARNIN] monitors may not be able to form quorum
[ceph_deploy.mon][DEBUG ] detecting platform for host node3 ...
[node3][DEBUG ] connected to host: node3
[node3][DEBUG ] detect platform information from remote host
[node3][DEBUG ] detect machine type

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[node3][DEBUG ] find the location of an executable
[ceph_deploy.mon][INFO ] distro info: Red Hat Enterprise Linux Server 7.4 Maipo
[node3][DEBUG ] determining if provided host has same hostname in remote
[node3][DEBUG ] get remote short hostname
[node3][DEBUG ] deploying mon to node3
[node3][DEBUG ] get remote short hostname
[node3][DEBUG ] remote hostname: node3
[node3][DEBUG ] write cluster configuration to /etc/ceph/{cluster}.conf
[node3][DEBUG ] create the mon path if it does not exist
[node3][DEBUG ] checking for done path: /var/lib/ceph/mon/ceph-node3/done
[node3][DEBUG ] done path does not exist: /var/lib/ceph/mon/ceph-node3/done
[node3][INFO ] creating keyring file: /var/lib/ceph/tmp/ceph-node3.mon.keyring
[node3][DEBUG ] create the monitor keyring file
[node3][INFO ] Running command: ceph-mon --cluster ceph --mkfs -i node3 --keyring
/var/lib/ceph/tmp/ceph-node3.mon.keyring --setuser 167 --setgroup 167
[node3][DEBUG ] ceph-mon: mon.noname-c 192.168.4.3:6789/0 is local, renaming to
mon.node3
[node3][DEBUG ] ceph-mon: set fsid to ff979247-1a38-409a-905a-96f8031faf4e
[node3][DEBUG ] ceph-mon: created monfs at /var/lib/ceph/mon/ceph-node3 for
mon.node3
[node3][INFO ] unlinking keyring file /var/lib/ceph/tmp/ceph-node3.mon.keyring
[node3][DEBUG ] create a done file to avoid re-doing the mon deployment
[node3][DEBUG ] create the init path if it does not exist
[node3][INFO ] Running command: systemctl enable ceph.target
[node3][INFO ] Running command: systemctl enable ceph-mon@node3
[node3][WARNIN] Created symlink from /etc/systemd/system/ceph-mon.target.wants/ceph-
mon@node3.service to /usr/lib/systemd/system/ceph-mon@.service.
[node3][INFO ] Running command: systemctl start ceph-mon@node3
[node3][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node3.asok mon_status
[node3][DEBUG ]
*****
[node3][DEBUG ] status for monitor: mon.node3
[node3][DEBUG ] {
[node3][DEBUG ]   "election_epoch": 1,
[node3][DEBUG ]   "extra_probe_peers": [
[node3][DEBUG ]     "192.168.4.1:6789/0",
[node3][DEBUG ]     "192.168.4.2:6789/0"
[node3][DEBUG ]   ],
[node3][DEBUG ]   "monmap": {
[node3][DEBUG ]     "created": "2018-09-27 17:16:56.677241",
[node3][DEBUG ]     "epoch": 0,
[node3][DEBUG ]     "fsid": "ff979247-1a38-409a-905a-96f8031faf4e",
[node3][DEBUG ]     "modified": "2018-09-27 17:16:56.677241",
[node3][DEBUG ]     "mons": [
[node3][DEBUG ]       {
[node3][DEBUG ]         "addr": "192.168.4.1:6789/0",
[node3][DEBUG ]         "name": "node1",
[node3][DEBUG ]         "rank": 0
[node3][DEBUG ]       },
[node3][DEBUG ]       {
[node3][DEBUG ]         "addr": "192.168.4.3:6789/0",

```

```

[node3][DEBUG ]      "name": "node3",
[node3][DEBUG ]      "rank": 1
[node3][DEBUG ]    },
[node3][DEBUG ]    {
[node3][DEBUG ]      "addr": "0.0.0.0:0/2",
[node3][DEBUG ]      "name": "node2",
[node3][DEBUG ]      "rank": 2
[node3][DEBUG ]    }
[node3][DEBUG ]  ]
[node3][DEBUG ] },
[node3][DEBUG ]   "name": "node3",
[node3][DEBUG ]   "outside_quorum": [],
[node3][DEBUG ]   "quorum": [],
[node3][DEBUG ]   "rank": 1,
[node3][DEBUG ]   "state": "electing",
[node3][DEBUG ]   "sync_provider": []
[node3][DEBUG ] }
[node3][DEBUG ]

*****
[node3][INFO ] monitor: mon.node3 is running
[node3][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node3.asok mon_status
[ceph_deploy.mon][INFO ] processing monitor mon.node1
[node1][DEBUG ] connected to host: node1
[node1][DEBUG ] detect platform information from remote host
[node1][DEBUG ] detect machine type
[node1][DEBUG ] find the location of an executable
[node1][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node1.asok mon_status
[ceph_deploy.mon][WARNIN] mon.node1 monitor is not yet in quorum, tries left: 5
[ceph_deploy.mon][WARNIN] waiting 5 seconds before retrying
[node1][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node1.asok mon_status
[ceph_deploy.mon][WARNIN] mon.node1 monitor is not yet in quorum, tries left: 4
[ceph_deploy.mon][WARNIN] waiting 10 seconds before retrying
[node1][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node1.asok mon_status
[ceph_deploy.mon][WARNIN] mon.node1 monitor is not yet in quorum, tries left: 3
[ceph_deploy.mon][WARNIN] waiting 10 seconds before retrying
[node1][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node1.asok mon_status
[ceph_deploy.mon][WARNIN] mon.node1 monitor is not yet in quorum, tries left: 2
[ceph_deploy.mon][WARNIN] waiting 15 seconds before retrying
[node1][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node1.asok mon_status
[ceph_deploy.mon][WARNIN] mon.node1 monitor is not yet in quorum, tries left: 1
[ceph_deploy.mon][WARNIN] waiting 20 seconds before retrying
[ceph_deploy.mon][INFO ] processing monitor mon.node2
[node2][DEBUG ] connected to host: node2
[node2][DEBUG ] detect platform information from remote host
[node2][DEBUG ] detect machine type
[node2][DEBUG ] find the location of an executable

```

```

[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[ceph_deploy.mon][WARNIN] mon.node2 monitor is not yet in quorum, tries left: 5
[ceph_deploy.mon][WARNIN] waiting 5 seconds before retrying
[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[ceph_deploy.mon][WARNIN] mon.node2 monitor is not yet in quorum, tries left: 4
[ceph_deploy.mon][WARNIN] waiting 10 seconds before retrying
[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[ceph_deploy.mon][WARNIN] mon.node2 monitor is not yet in quorum, tries left: 3
[ceph_deploy.mon][WARNIN] waiting 10 seconds before retrying
[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[ceph_deploy.mon][WARNIN] mon.node2 monitor is not yet in quorum, tries left: 2
[ceph_deploy.mon][WARNIN] waiting 15 seconds before retrying
[node2][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node2.asok mon_status
[node2][ERROR ] admin_socket: exception getting command descriptions: [Errno 2] No
such file or directory
[ceph_deploy.mon][WARNIN] mon.node2 monitor is not yet in quorum, tries left: 1
[ceph_deploy.mon][WARNIN] waiting 20 seconds before retrying
[ceph_deploy.mon][INFO ] processing monitor mon.node3
[node3][DEBUG ] connected to host: node3
[node3][DEBUG ] detect platform information from remote host
[node3][DEBUG ] detect machine type
[node3][DEBUG ] find the location of an executable
[node3][INFO ] Running command: ceph --cluster=ceph --admin-daemon
/var/run/ceph/ceph-mon.node3.asok mon_status
[ceph_deploy.mon][INFO ] mon.node3 monitor has reached quorum!
[ceph_deploy.mon][ERROR ] Some monitors have still not reached quorum:
[ceph_deploy.mon][ERROR ] node1
[ceph_deploy.mon][ERROR ] node2

```

**ceph-deploy mon create-initial 之后还是提示文件不一致需要覆盖，可以删掉有问题的机器的 /var/run/ceph/\* 然后重启之后再执行一次，如果还不行的话，使用 ceph-deploy --overwrite-conf mon create node2 node3 node1 代替 ceph-deploy mon create-initial 也行**



```

[root@node1 ceph-clu]# ceph-deploy mon create-initial
[ceph_deploy.conf][DEBUG ] found configuration file at: /root/.cephdeploy.conf
[ceph_deploy.cli][INFO  ] Invoked (1.5.33): /usr/bin/ceph-deploy mon create-initial
[ceph_deploy.cli][INFO  ] ceph-deploy options:
[ceph_deploy.cli][INFO  ] username                : None
[ceph_deploy.cli][INFO  ] verbose                : False
[ceph_deploy.cli][INFO  ] overwrite_conf         : False
[ceph_deploy.cli][INFO  ] subcommand              : create-initial
[ceph_deploy.cli][INFO  ] quiet                  : False
[ceph_deploy.cli][INFO  ] cd_conf                 :
<ceph_deploy.conf.cephdeploy.Conf instance at 0x1bc06c8>
[ceph_deploy.cli][INFO  ] cluster                : ceph
[ceph_deploy.cli][INFO  ] func                   : <function mon at
0x1bb6938>
[ceph_deploy.cli][INFO  ] ceph_conf               : None
[ceph_deploy.cli][INFO  ] default_release         : False
[ceph_deploy.cli][INFO  ] keyrings                : None
[ceph_deploy.mon][DEBUG ] Deploying mon, cluster ceph hosts node1 node2 node3
[ceph_deploy.mon][DEBUG ] detecting platform for host node1 ...
[node1][DEBUG ] connected to host: node1
[node1][DEBUG ] detect platform information from remote host
[node1][DEBUG ] detect machine type
[node1][DEBUG ] find the location of an executable
[ceph_deploy.mon][INFO  ] distro info: Red Hat Enterprise Linux Server 7.4 Maipo
[node1][DEBUG ] determining if provided host has same hostname in remote
[node1][DEBUG ] get remote short hostname
[node1][DEBUG ] deploying mon to node1
[node1][DEBUG ] get remote short hostname
[node1][DEBUG ] remote hostname: node1
[node1][DEBUG ] write cluster configuration to /etc/ceph/{cluster}.conf
[ceph_deploy.mon][ERROR ] RuntimeError: config file /etc/ceph/ceph.conf exists with
different content; use --overwrite-conf to overwrite
[ceph_deploy.mon][DEBUG ] detecting platform for host node2 ...
[node2][DEBUG ] connected to host: node2
[node2][DEBUG ] detect platform information from remote host
[node2][DEBUG ] detect machine type
[node2][DEBUG ] find the location of an executable
[ceph_deploy.mon][INFO  ] distro info: Red Hat Enterprise Linux Server 7.4 Maipo
[node2][DEBUG ] determining if provided host has same hostname in remote
[node2][DEBUG ] get remote short hostname
[node2][WARNIN]
*****
[node2][WARNIN] provided hostname must match remote hostname
[node2][WARNIN] provided hostname: node2
[node2][WARNIN] remote hostname: localhost
[node2][WARNIN] monitors may not reach quorum and create-keys will not complete
[node2][WARNIN]
*****
[node2][DEBUG ] deploying mon to node2
[node2][DEBUG ] get remote short hostname
[node2][DEBUG ] remote hostname: localhost

```

```
[node2][DEBUG ] write cluster configuration to /etc/ceph/{cluster}.conf
[ceph_deploy.mon][ERROR ] RuntimeError: config file /etc/ceph/ceph.conf exists with
different content; use --overwrite-conf to overwrite
[ceph_deploy.mon][DEBUG ] detecting platform for host node3 ...
[node3][DEBUG ] connected to host: node3
[node3][DEBUG ] detect platform information from remote host
[node3][DEBUG ] detect machine type
[node3][DEBUG ] find the location of an executable
[ceph_deploy.mon][INFO  ] distro info: Red Hat Enterprise Linux Server 7.4 Maipo
[node3][DEBUG ] determining if provided host has same hostname in remote
[node3][DEBUG ] get remote short hostname
[node3][DEBUG ] deploying mon to node3
[node3][DEBUG ] get remote short hostname
[node3][DEBUG ] remote hostname: node3
[node3][DEBUG ] write cluster configuration to /etc/ceph/{cluster}.conf
[ceph_deploy.mon][ERROR ] RuntimeError: config file /etc/ceph/ceph.conf exists with
different content; use --overwrite-conf to overwrite
[ceph_deploy][ERROR ] GenericError: Failed to create 3 monitors
```

Type *Markdown* and *LaTeX*:  $\alpha^2$



