ceph build --- only after the initial install is done

monitor

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start here!

ssh ceph-mon

ls /etc/ceph ---make sure it exists

touch /etc/ceph/ceph.conf

uuidgen

ceph-authtool --create-keyring /tmp/ceph.mon.keyring --gen-key -n mon. --cap mon 'allow \*'

ceph-authtool --create-keyring /etc/ceph/ceph.client.admin.keyring --gen-key -n client.admin --set-uid=0 --cap mon 'allow \*' --cap osd 'allow \*' --cap mds 'allow'

ceph-authtool /tmp/ceph.mon.keyring --import-keyring /etc/ceph/ceph.client.admin.keyring

monmaptool --create --add ceph-mon 192.168.10.2 --fsid e1628902-fc25-4fa2-88a9-c26e84c2f3bf /tmp/monmap

mkdir /var/lib/ceph/mon/ceph-ceph-mon

ceph-mon --cluster ceph --mkfs -i ceph-mon --monmap /tmp/monmap --keyring /tmp/ceph.mon.keyring

make /etc/ceph/ceph.conf:

fsid = e1628902-fc25-4fa2-88a9-c26e84c2f3bf

mon initial members = ceph-mon

mon host = 192.168.10.2

public network = 192.168.10.0/24

auth cluster required = cephx

auth service required = cephx

auth client required = cephx

osd journal size = 1024

filestore xattr use omap = true

osd pool default size = 2

osd pool default min size = 1

osd pool default pg num = 333

osd pool default pgp num = 333

osd crush chooseleaf type = 1

touch /var/lib/ceph/mon/ceph-ceph-mon/done

touch /var/lib/ceph/mon/ceph-ceph-mon/done

/etc/init.d/ceph start mon.ceph-mon

check status:

ceph -s

odd build

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ssh ceph-osd1

uuidgen

scp ceph-mon:/etc/ceph/ceph.conf /etc/ceph

scp ceph-mon:/etc/ceph/ceph.client.admin.keyring /etc/ceph/

scp ceph-mon:/var/lib/ceph/bootstrap-osd/ceph.keyring /var/lib/ceph/bootstrap-osd/

ceph osd create uuid

mkdir /var/lib/ceph/osd/{cluster-name}-{osd-number}

mkfs -t {fstype} /dev/{hdd}

mkfs -t {fstype} /dev/{hdd}

#disk per odd, repeat as needed

mount -o user\_xattr /dev/{hdd} /var/lib/ceph/osd/{cluster-name}-{osd-number}

ceph-osd -i {osd-num} --mkfs --mkkey --osd-uuid [{uuid}]

ceph auth add osd.{osd-num} osd 'allow \*' mon 'allow profile osd' -i /var/lib/ceph/osd/{cluster-name}-{osd-num}/keyring

ceph [--cluster {cluster-name}] osd crush add-bucket {hostname} host

ceph osd crush move node1 root=default

ceph [--cluster {cluster-name}] osd crush add {id-or-name} {weight} [{bucket-type}={bucket-name} ...]

ex. ceph osd crush add osd.0 1.0 host=node1

touch /var/lib/ceph/osd/{cluster-name}-{osd-num}/sysvinit

/etc/init.d/ceph start osd.{osd-num}

**Team Celadon Notes**

**osd.0**

uuidgen

ceph osd create 769d4796-5dae-4ee5-bc23-a1aae5362ab0

mkdir /var/lib/ceph/osd/ceph-0

mount -o user\_xattr /dev/sda /var/lib/ceph/osd/ceph-0/

ceph-osd -i 0 --mkfs --mkkey --osd-uuid 769d4796-5dae-4ee5-bc23-a1aae5362ab0

ceph auth add osd.0 osd 'allow \*' mon 'allow profile osd' -i /var/lib/ceph/osd/ceph-0/keyring

ceph osd crush add-bucket NODE-05 host

ceph osd crush move NODE-05 root=default

ceph osd crush add osd.0 1.0 host=NODE-05

touch /var/lib/ceph/osd/ceph-0/sysvinit

/etc/init.d/ceph start osd.0

**osd.1**

uuidgen

ceph osd create 988a41cd-f048-41f3-910c-5df650ecf130

mkdir /var/lib/ceph/osd/ceph-1

mount -o user\_xattr /dev/sdb /var/lib/ceph/osd/ceph-1/

ceph-osd -i 1 --mkfs --mkkey --osd-uuid 988a41cd-f048-41f3-910c-5df650ecf130

ceph auth add osd.1 osd 'allow \*' mon 'allow profile osd' -i /var/lib/ceph/osd/ceph-1/keyring

ceph osd crush add osd.1 1.0 host=NODE-05

touch /var/lib/ceph/osd/ceph-1/sysvinit

/etc/init.d/ceph start osd.1