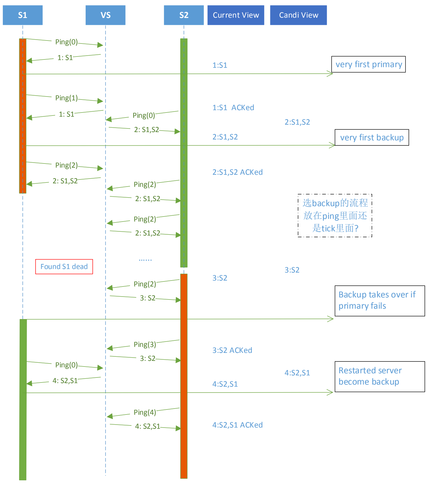
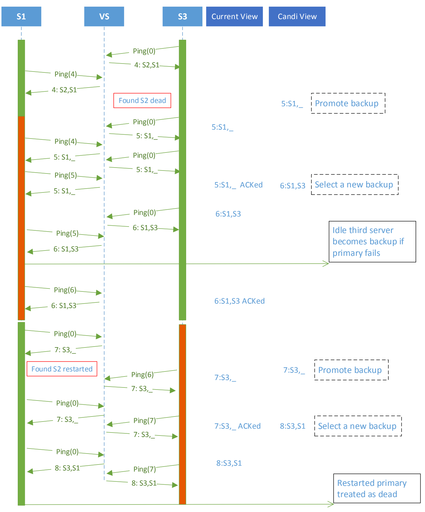
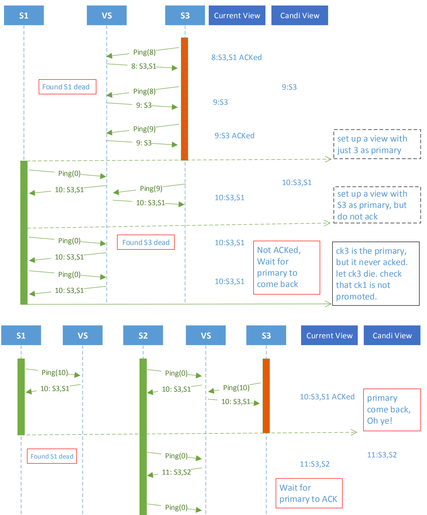
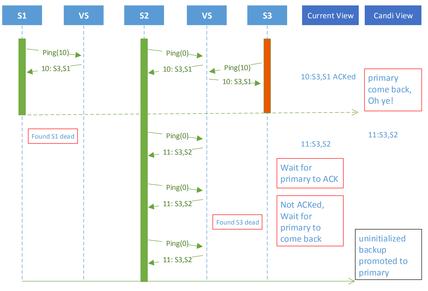
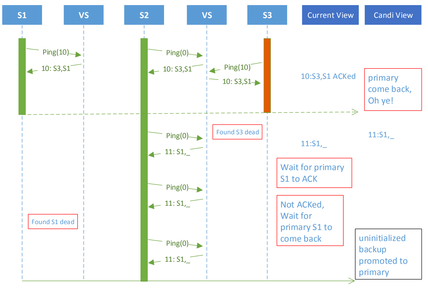

S1
VS
S2
Current View
Candi View
Ping(0)
1: S1
1:S1
very first primary
Ping(1)
1: S1
Ping(0)
2: S1,S2
1:S1 ACKed
2:S1,S2
2:S1,S2
very first backup
Ping(2)
2: S1,S2
2:S1,S2 ACKed
Ping(2)
2: S1,S2
Ping(2)
2: S1,S2
是backup的流程，放在ping里面还是tick里面？
.....
Found S1 dead
3:S2
3:S2
Ping(2)
3: S2
Backup takes over if primary fails
Ping(3)
3: S2
3:S2 ACKed
Ping(0)
4: S2,S1
4:S2,S1
Restarted server become backup
4:S2,S1
Ping(4)
4: S2,S1
4:S2,S1 ACKed


S1
VS
S3
Current View
Candi View
Ping(0)
4: S2,S1
Ping(4)
4: S2,S1
Found S2 dead
5:S1,_
Promote backup
Ping(0)
5: S1,_
Ping(4)
5: S1,_
Ping(0)
5: S1,_
Ping(5)
5: S1,_
5:S1,_ ACKed
6:S1,S3
Select a new backup
Ping(0)
6: S1,S3
6:S1,S3
Ping(5)
6: S1,S3
Idle third server becomes backup if primary fails
Ping(6)
6: S1,S3
6:S1,S3 ACKed
Ping(0)
7: S3,_
Found S2 restarted
Ping(6)
7: S3,_
7:S3,_
7:S3,_
Promote backup
Ping(0)
7: S3,_
Ping(7)
7: S3,_
7:S3,_ ACKed
8:S3,S1
Select a new backup
Ping(0)
8: S3,S1
Ping(7)
8: S3,S1
8:S3,S1
Restarted primary treated as dead


S1
VS
S3
Current View
Candi View
Ping(8)
8: S3,S1
8:S3,S1 ACKed
Found S1 dead
9:S3
Ping(8)
9: S3
9:S3
Ping(9)
9: S3
9:S3 ACKed
set up a view with just 3 as primary
Ping(0)
10: S3,S1
10:S3,S1
Ping(9)
10: S3,S1
10:S3,S1
set up a view with S3 as primary, but i do not ack
Ping(0)
10: S3,S1
Found S3 dead
10:S3,S1
Not ACKed, Wait for primary to come back
ck3 is the primary, but it never acked. let ck3 die. check that ck1 is not promoted.
Ping(0)
10: S3,S1
10:S3,S1


S1
VS
S2
VS
S3
Current View
Candi View
Ping(10)
10: S3,S1
Ping(0)
10: S3,S1
Ping(10)
10: S3,S1
10:S3,S1 ACKed
primary come back, Oh ye!
Found S1 dead
Ping(0)
11: S3,S2
11:S3,S2
11:S3,S2
Wait for primary to ACK
Ping(0)
11: S3,S2
Found S3 dead
Not ACKed, Wait for primary to come back
Ping(0)
11: S3,S2
uninitialized backup promoted to primary


S1
VS
S2
VS
S3
Current View
Candi View
Ping(10)
10: S3,S1
Ping(0)
10: S3,S1
Ping(10)
10: S3,S1
10:S3,S1 ACKed
primary come back, Oh ye!
Found S3 dead
11:S1,_
11:S1,_
Wait for primary S1 to ACK
Ping(0)
11: S1,_
Ping(0)
11: S1,_
Not ACKed, Wait for primary S1 to come back
Found S1 dead
Ping(0)
11: S1,_
uninitialized backup promoted to primary