LCM Pre-check: test_hosts_in_maintenance_mode

Article # KB-9046 | Last modified on Nov 22nd 2023

Summary: LCM pre-check test_hosts_in_maintenance_mode checks if any host is in Maintenance mode.

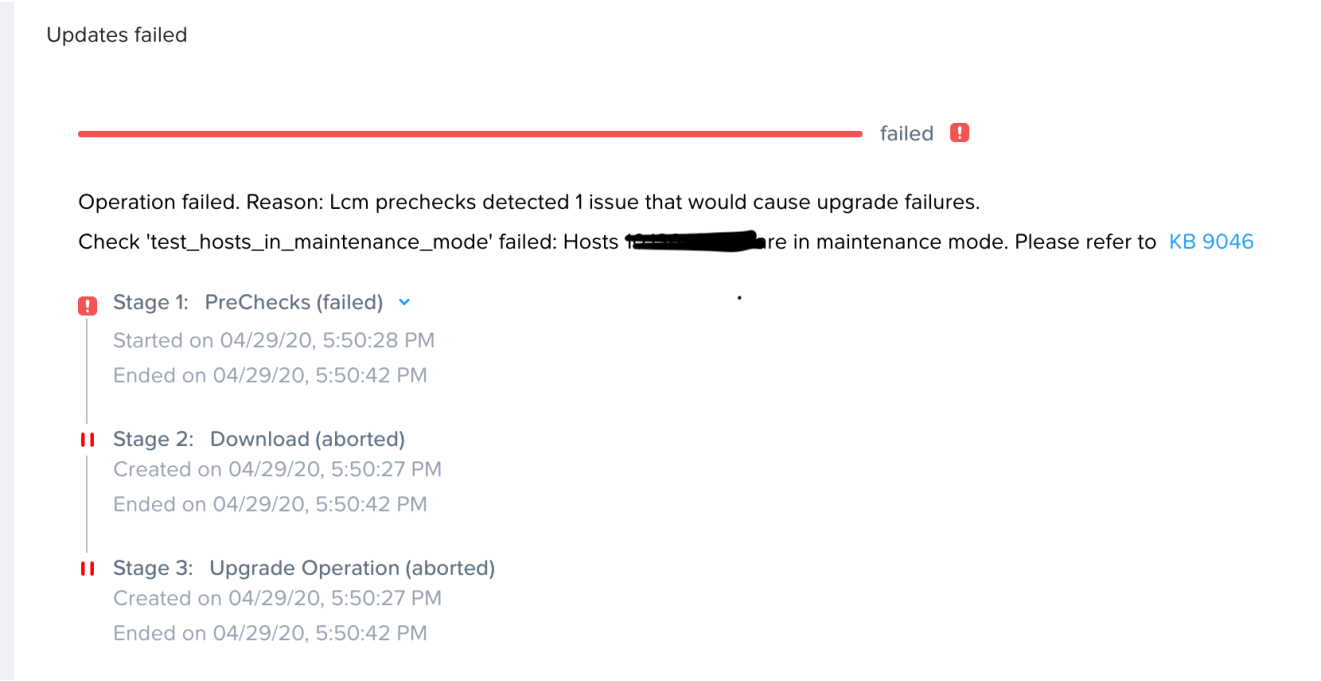
Versions affected: LCM 2.x

LCM

Description:

LCM pre-check **test_hosts_in_maintenance_mode** checks if any host is in Maintenance mode.
A host could be left in maintenance due to previous upgrade failure, maintenance activity etc.

LCM update operation fails with the following error when it detects 1 or more host(s) in Maintenance mode.




```
Operation failed. Reason: Lcm prechecks detected 1 issue that
would cause upgrade failures.
Check 'test_hosts_in_maintenance_mode' failed: Hosts
xx.x.xx.10 xx.x.xx.11 are in maintenance mode.
Please refer to KB 9046
```

Solution:

For AHV

1. Identify the host that is not **Schedulable.**

```
nutanix@CVM~$ acli host.list
Hypervisor IP  Hypervisor DNS Name  Host UUID
Compute Only  Schedulable  Hypervisor Type  Hypervisor Name
xx.xx.xx.11     xx.xx.xx.xx          58dffc17-896e-48ff-
87a6-e90b23b20471  False         False         kKvm
AHV
xx.xx.xx.xx     xx.xx.xx.xx          65fa3fb3-56f1-444d-
872d-d144a0c54c8e  False         True          kKvm
AHV
xx.xx.xx.xx     xx.xx.xx.xx          70167025-1b2c-4c79-
ac04-85dc547ea9e4  False         True          kKvm
AHV
xx.xx.xx.xx     xx.xx.xx.xx          67320f01-d4a8-4363-
9cc4-1e676a61cc54  False         True          kKvm
AHV
```

2. Check the status of the host:

```
nutanix@CVM~$ acli host.get <Hypervisor IP or Hypervisor
DNS Name or Host UUID>
```

3. Check for Node_state --> "**kEnteredMaintenanceMode**"
4. Check for "Schedulable" value --> **False**
   If 1 and 2 are True, proceed to the next step. Otherwise, contact Nutanix Support.

   Example output:

```
nutanix@CVM~$ acli host.get xx.xx.xx.11
xx.xx.xx.xx {
  cpu_usage_ppm: 35708
  cvm_memory_size_bytes: 34359738368
  cvm_num_vcpus: 12
  cvm_uuid: "d39c8813-9029-4228-ad5e-d1e82fc82e0f"
  logical_timestamp: 201
  max_mem_ha_reserved_bytes: 0
  mem_assigned_bytes: 0
  mem_usage_bytes: 38467761771
  memory_size_bytes: 269889830912
  node_state: "kEnteredMaintenanceMode"
  num_cpus: 80
  schedulable: False
  uuid: "58dffc17-896e-48ff-87a6-e90b23b20471"
}
```

5. If the host is in Maintenance Mode, exit maintenance mode for that host.

```
nutanix@CVM~$ acli host.exit_maintenance_mode <Hypervisor
IP or Hypervisor DNS Name or Host UUID>
```

6. Re-run LCM update operation.

For ESXi

1. Login to vCenter and check if any ESXi host is in Maintenance mode.
2. Exit Maintenance mode. Wait for few mins until CVM is online and services are up.
3. Re-run LCM update operation

For Hyper-V

1. Check the status of cluster nodes:

```
nutanix@NTNX-XXX-B-CVM:10.xx.xx.xx:~$ winsh
192.168.5.1> Get-Clusternode
Name                 ID    State
----                 --    -----
HPVHST12             1     Paused
HPVHST13             7     Up
HPVHST14             6     Up
HPVHST15             8     Up
HPVHST16             11    Up
HPVHST17             4     Up
HPVHST18             9     Up
HPVHST19             3     Up
HPVHST20             2     Up
HPVHST21             10    Up
HPVHST22             5     Up
```

2. In this example, the node HPVHST12 is in a Paused state. Bring it back online:

```
nutanix@NTNX-XXX-B-CVM:10.xx.xx.xx:~$ winsh Resume-
Clusternode HPVHST12
```

3. Re-run LCM update operation.