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QUESTION 1

A Telco customer is implementing NFV using vSphere as the virtualization platform.

Which feature can help achieve a high packet rate with lower CPU consumption?

- A. SplitRX
- B. Network I/O Control
- C. ERSPAN
- D. LACP

Correct Answer: A

SplitRx Mode

SplitRx mode uses multiple physical CPUs to process network packets received in a single network queue.

This feature can significantly improve network performance for certain workloads. These workloads include:

Multiple virtual machines on one ESXi host all receiving multicast traffic from the same source. (SplitRx mode will typically improve throughput and CPU efficiency for these workloads.)

Traffic via the vNetwork Appliance (DVFilter) API between two virtual machines on the same ESXi host. (SplitRx mode will typically improve throughput and maximum packet rates for these workloads.)

In vSphere 5.1 and later this feature is automatically enabled for a VMXNET3 virtual network adapter (The only adapter type on which it is supported) when ESXi detects that a single network queue on a physical NIC is both (a) heavily utilized and (b) getting more that 10,000 broadcast/multicast packets per second.

QUESTION 2

A vSphere administrator wants to reserve 0.5Gbps for virtual machines on each uplink on a distributed switch that has 10 uplinks.

What is the quota that should be reserved for the network resource pool?

- A. 5Gbps
- B. 10Gbps
- C. 100Gbps
- D. 0.5Gbps

Correct Answer: A

For example, if the virtual machine system traffic has 0.5 Gbps reserved on each 10 GbE uplink on a distributed switch that has 10 uplinks, then the total aggregated bandwidth available for VM reservation on this switch is 5 Gbps. Each network resource pool can reserve a quota of this 5 Gbps capacity.

QUESTION 3

An administrator is investigating virtual machine performance issues using ESXTOP. The ESXi host does not have hyperthreading enabled.

Which statistics would be relevant for troubleshooting VM performance issues?

- A. %RDY
- B. %IDLE
- C. %RUN
- D. CORE UTIL(%)

Correct Answer: A

QUESTION 4

A vSphere HA-enabled cluster is configured with a host isolation response of "Shut Down and restart VMs". A host in this cluster has a single NIC on the management network.

If the management NIC on this host experience a failure, which will be the result?

- A. VMs will be sent down gracefully and powered up on other hosts in the cluster.
- B. VMs will be vMotioned to a healthy host in the cluster.
- C. VMs will be immediately powered-off and restarted on other hosts in the cluster.
- D. VMs will continue running on the host because only the management network is affected.

Correct Answer: A

QUESTION 5

An administrator wants to ensure that any virtual machine added to a certain port group always has sufficient network resources. Network I/O Control version 3 has been enabled on the Distributed Switch.

Which three steps will achieve this objective? (Choose three.)

- A. Reserve bandwidth for virtual machine system traffic on the Distributed Switch Port Group.
- B. Edit the virtual machine's Resource settings and set a reservation for virtual machine system traffic.

- C. Create a Network Resource Pool on the Distributed Switch and set a reservation quota.
- D. Reserve bandwidth for virtual machine system traffic on the Distributed Switch.
- E. Add the Network Resource Pool on the Distributed Switch Port Group.

Correct Answer: CDE

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