

# QUESTIONS & ANSWERS

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**IBM**

## C9030-644

*IBM z Systems Technical Support V7*

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**QUESTION:** 59

A customer is planning to upgrade to a z13s and requires an external time source. Which option is a valid external time source for the z13s?

- A. Support Element
- B. 9037 Sysplex Timer
- C. NTP server
- D. Dial-out modern

**Answer:** C

**Explanation:**

Network Time Protocol (NTP) client support The external time source (ETS) function of STP can provide accurate time relative to an external time standard for data processing applications. The ETS function is only available when an STP-only CTN is configured. The external time source can be configured by dialing out from the HMC to an available time service such as Automated Computer Time Service (ACTS). Dialing out provides time accuracy for the z Systems timing network only. This function has been generally available since January 31, 2007 when STP became generally available. An alternative method to obtain accurate time is from an NTP server. Simple Network Time Protocol (SNTP) client support is added to the Server Time Protocol code to interface with NTP servers. NTP client support can provide the same time across heterogeneous platforms in an enterprise with a time accuracy milliseconds.

**References:**

<https://www-03.ibm.com/systems/z/advantages/pso/stp/ntp.html>

**QUESTION:** 60

A customer has recently upgraded to a z13 processor. As part of the migration process, the LPAR image profiles were copied from the old processor to the z13. After the upgrade, transactions on the production z/OS environment continue to run well; however, in the development z/OS environment, transactions are now timing out.

What tool should the technical specialist use to help the customer resolve this problem?

- A. zTPM
- B. zBNA
- C. zPCR
- D. zSoftcap

**Answer:** C

**Explanation:**

IBM's Processor Capacity Reference (zPCR) is a PC-based productivity tool under Windows. It is designed to provide capacity planning insight for IBM System z processors running LPAR configurations with various workload environments under z/OS, z/VM, and Linux. Capacity results are based on IBM's LSPR data supporting all IBM System z processors.

**QUESTION:** 61

A customer is running an application using z13 cryptographic functions with User Defined Extensions (UDX). Which z13 Crypto Express5S mode supports the requirements?

- A. CPACF mode
- B. CCA mode
- C. Accelerator mode
- D. EP11 mode

**Answer:** B

**Explanation:**

When the PCIe adapter is configured as a CCA coprocessor, it supports the following features: When the PCIe adapter is configured as an IBM Enterprise PKCS #11 (EP11) coprocessor, it supports

**References:**

Ultimate Security with the IBM z13, IBM Redbooks Solution Guide, page 6

**QUESTION:** 62

Which of the following correctly describes the term "RTO"?

- A. The time it takes GDPS to recognize an outage and begin its recovery processes.
- B. The length of time it takes to recover from an outage and resume normal operations.
- C. The data loss time calculated by taking the time of an outage minus the last consistency group time.
- D. The time it takes to declare a disaster.

**Answer:** B

**Explanation:**

Recovery time objective (RTO) is the length of time that it takes to recover from an outage (scheduled, unscheduled, or disaster) and resume normal operations for an application or a set of applications.

**References:**

[https://www.ibm.com/support/knowledgecenter/en/ssw\\_ibm\\_i\\_73/rzarj/rzarjhareqsrecoverytime.htm](https://www.ibm.com/support/knowledgecenter/en/ssw_ibm_i_73/rzarj/rzarjhareqsrecoverytime.htm)

**QUESTION:** 63

A client has ordered a z13s that will soon be shipping from the IBM manufacturing facility to their new data center location. Due to construction delays, the box will not be physically installed for 90 days after shipment. Based on the planned installation date, when will the standard warranty period for the z13s begin?

- A. The day after the installation date.
- B. It varies by region from 45 to 75 days after shipment.
- C. 30 days after the installation date.
- D. 30 days after shipment.

**Answer:** A

**Explanation:**

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine.

**References:**

<https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?subtype=ca&infotype=an&supplier=877&letternum=ENUSZG15-0001>

**QUESTION:** 64

Which scenario would provide the best opportunity to justify the RoCE Express feature?

- A. Shared memory communication from a distributed Linux application to an MQ Linux guest on a z Systems server.
- B. A z/OS WebSphere application that communicates to DB2 running on a z/OS LPAR on a separate z Systems server.
- C. CICS to CICS communication between z/OS LPARs within the same z Systems server.
- D. A Linux system running MQ on a z Systems server communicating to a z/OS MQ within the same server.

**Answer:** A

**Explanation:**

RoCE Express provides an RDMA capable network adapter providing access to RDMA over Converged Ethernet (RoCE). RoCE provides an optimized network interconnect for System z communications. Along with RoCE Express, z/OS provided a new RDMA based solution called Shared Memory Communications over RDMA (SMC-R). SMC-R is a sockets based solution providing transparent access to RoCE for TCP sockets applications over standard Ethernet.

The IBM System z13 introduces the capability to share (virtualize) the 10GbE RoCE Express feature among multiple (up to 31) LPARs (or z/VM guest virtual machines) using standardized PCIe virtualization (SR-IOV) technology. When RoCE Express is exploited by z/OS with SMC-R, the combined solutions provide two key value points:

**References:**

[https://www.ibm.com/developerworks/community/blogs/IBMCommserver/entry/ibm\\_system\\_z\\_10gbe\\_roce\\_express\\_virtualization?lang=en](https://www.ibm.com/developerworks/community/blogs/IBMCommserver/entry/ibm_system_z_10gbe_roce_express_virtualization?lang=en)

**QUESTION:** 65

A customer has a Parallel Sysplex running on LPARs spread across two z13 processors in the same data center location. Each z13 has multiple FICON Express8S channel paths to one shared DS8870 subsystem. Which recommendation will improve the resiliency of this environment?

- A. Install a second DS8880 and mirror the data.
- B. Replace the FICON Express8S with FICON Express16S channels.
- C. Implement FICON Dynamic Routing and Forward Error Correction.
- D. Add FICON Directors and Inter-Switch Links to the infrastructure.

**Answer:** C

**Explanation:**

With the IBM z13 and IBM z13s servers, FICON channels are no longer restricted to the use of static SAN routing policies for ISLs for cascaded FICON directors. The z Systems servers now support dynamic routing in the SAN with the FICON Dynamic Routing (FIDR) feature.

**References:**

IBM z13 Technical Guide (May 2016), page 167

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