

2.1 Scenarios

Throughout this book, we use two distinct scenarios by which we explain the tasks and procedures that are involved to successfully install and configure a z14 ZR1 server.

2.1.1 Scenario 1: Upgrading an existing IBM Z server to a z14 ZR1

This scenario assumes that an IBM Z environment where the IBM Z server is upgraded by using miscellaneous equipment specifications (MES) to a z14 ZR1. The scenario includes a planned outage period for the time of the physical upgrade of the machine. The software environments that are supported by this machine are not available during this period. The serial number of the machine remains the same after the upgrade.

2.1.2 Scenario 2: Installing a new z14 ZR1 server

This scenario assumes that a new z14 ZR1 is installed in a mainframe environment. The z14 ZR1 machine is physically installed along with an existing IBM Z machine. After the installation of the z14 ZR1 is successfully completed and the system is handed over by the IBM service representative, the software environment on the machine to be replaced must be stopped and recabling actions must be performed.

When recabling is complete, postinstallation activities must be performed and the software environment can be brought back online on the new system (z14 ZR1). An outage has still to be planned for this scenario, and a new serial number must be considered, so software keys for the new system must be available.

2.1.3 Differences in planning for the two scenarios

In the first scenario, the physical platform identity to be configured remains the same. No hardware configuration files must be physically migrated to another platform. Because the machine serial number remains the same after the upgrade, no changes to the software licenses are required.

In the second scenario, the physical platform to be configured changes. Hardware configuration files must be prepared on the existing machine, and must be migrated to the new z14 ZR1 server with the attached cabling. The serial number changes with the activation of the z14 ZR1 machine, which means that planning and preparing for software license changes must be considered.

In both scenarios, we assume that bringing up the existing features and functions has highest priority. Adding features and functions that were acquired with the system upgrade or installed in the new z14 ZR1 have a lower priority. The elapsed time of the planned outage can vary significantly, depending on the approach that is chosen in either scenario.