KnapSac
Usage
Notes

Backup/Restore of a VMS System Disk

KnapSac provides two ways to backup a VMS system disk so that the system disk can be fully restored:

1.   **Network Backup/Restore**

      In the network approach KnapSac is used to create an image save of the system disk and store it in a pacset on a Windows computer.

      In order to restore the system disk from the pacset on Windows, VMS is booted from an alternate disk which has KnapSac and TCP/IP networking. Then KnapSac is used to restore the system disk from the image pacset created on Windows.

2.   **Local Backup/Restore**

      In the local approach KnapSac is used to create an image save of the system disk and place it in a self-restoring pacset on a local disk other than the system disk.

      In order to restore the system disk from the self-restoring pacset, a minimum VMS system is booted from the VMS distribution CD or from a minimum system that has been created on an alternate disk. After VMS is booted the self-restoring pacset is run to restore the system disk.

Example Network Backup/Restore

1.   Use KnapSac to perform an image save of the system disk dka0: to a pacset on Windows.

      $knapSac dka0: winpc::dka0img.pac /image

2.   If the system disk fails it can be restore by booting VMS from another disk on the same VMS system or move the target system disk to another VMS system which also has KnapSac. Then use KnapSac to perform an image restore to the target system disk. Assuming dka0: is the target disk the following commands will restore the system disk.

      $ init dka0: system   ! (if a new disk)
      $ mount /foreign dka0:
      $ knapSac winpc::dka0img.pac dka0: /image

      If the platform is Alpha or VAX the disk dka0: can now be booted. If the platform is

Integrity an additional step is needed to set a new boot option for the disk.

Example Local Backup/Restore

1. Use KnapSac to perform an image save of the system disk dka0: and place it in a self-restoring pacset on a different disk such as dka100:.

    $ knapSac dka0: dka100:[ksbackup]dka0imgse.pac /system/image

    The /system qualifier tells KnapSac to create a self-restoring pacset and the /image qualifier tells KnapSac to make an image save of the disk.

2. If the system disk fails it can be restored by booting a minimum VMS system from the VMS distribution CD or an alternate disk. Choose the DCL commands option to get to the $$$ prompt. Mount the disk which contains the pacset and define a foreign command for the pacset.

    $$$ mount/over=id dka100:
    $$$ kspacset := $dka100:[ksbackup]dka0imgse.pac
    $$$ init dka0: system   ! (if a new disk)
    $$$ mount/foreign dka0:
    $$$ kspacset restore dka0: /image

    If the platform is Alpha or VAX the disk dka0: can now be booted. If the platform is Integrity an additional step is needed to set a new boot option for the disk. Detailed examples of system disk backup and restore are provided in the Alpha, Integrity, and VAX KnapSac PDF files.