Virtualization Station 3.5

Virtual machine live migration ensures smooth service and application performance
Problems by IT using virtual machine services

- Virtual Machine service is too slow
- The virtual machine service automatically stops running
- Virtual Machine service is unstable
- Virtual machine service security issues
IT maintenance process

Shutdown → Test Online → Shutdown again → Online

1. Update Firmware
2. Update Hardware Device
3. Switch to other hardware devices
4. Hardware device reboot
5. Find issue Root Cause and test service
Can the VM service run smoothly during IT maintenance?
The VM Live Migration make IT maintenance more flexible.

- **STEP 1**: VM Live Migration to NASB
- **STEP 2**: VM Service running
- **B NAS**: VM Service keep running.
- **A NAS**: Shutdown
VM Live Migration Architecture
One NAS can do "Migrate in " and "Migrate out"
Simple UI operation in three steps to complete VM Live Migration

**Migrate VM to Destination Device**

- **STEP 1**
  - Destination Device:
    - Credentials: 172.17.30.186
  - Destination Information:
    - Virtualization Station: 3.0.0
    - Processor: Intel(R) Core(TM) i3-7100 CPU
    - Logical Cores: 4
    - System Memory: 8 GB
    - VM Configurations: Compatible

- **STEP 2**
  - Storage Migration Method:
  - VM Settings:
  - Summary:

  Specify a method to migrate the virtual disks from source device to destination device.
  - Move all disk images to the same folder
    - This option allows you to specify a storage location so that all disk images of the virtual machine can be moved there.
  - Specify destination for each disk images
    - This option allows you to specify a storage location for each disk image of the virtual machine.

- **STEP 3**
  - Migrate VM to Destination Device
  - Storage Migration Method
  - VM Settings
  - Summary

  Configure the virtual machine and the destination location of its disks based on your specific needs and preferences.
  - VM Name: Windows 2016
  - Storage:
    - Migration Method: Move all disk images to the same folder
    - Destination: /Public
  - Networks:
    - Adapter 1
      - Virtual Switch: Virtual Switch 1 (172.17.30.186 / -)
  - Console Setting:
    - VM Console Port (optional): 5900-5930
VM Live Migration advantages and benefits

Advantage
• Virtual machine live migration ensures smooth service

Benefits
• It can achieve the effect of IT maintenance without affecting the user's use of the services on the virtual machine.
• IT can flexibly maintain hardware and firmware upgrades and repairs, or periodically restart operations.
• Business operations will not be affected by IT maintenance.
• You don't need the same NAS model, the same number of hard drives and slot locations, you only need to correspond to the same CPU platform (Intel&Intel /AMD&AMD) to use.
• If the VM uses the Device Passthrough (PCIe/Blu-ray) function, live migration cannot be used.
  • Because the physical device used by the original VM was live migrated, the original physical device ID will not be recognized when the VM is migrated to the new NAS.

• VM Live Migration function support models only support the same platform model of X86 architecture
  • Intel platform NAS VM Live Migration to Intel platform NAS
  • AMD platform NAS VM Live Migration to AMD platform NAS

• Virtualization Station 3.5 is only compatible with QTS 4.5.1 or later version.
Considerations-2

- VMs exported from Virtualization Station 3.5 are only compatible with Virtualization Station 3.5 and later versions.

- Secure shell (SSH) service is required to migrate VMs. Ensure that SSH is enabled in "Control Panel > Network & File Services > Telnet / SSH" to prevent migration failure.

- Ports 16500-16550 are required for VM migration. Ensure that these ports are not blocked to avoid migration failure.
Virtualization Station 3.5
Your Best Choice.
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