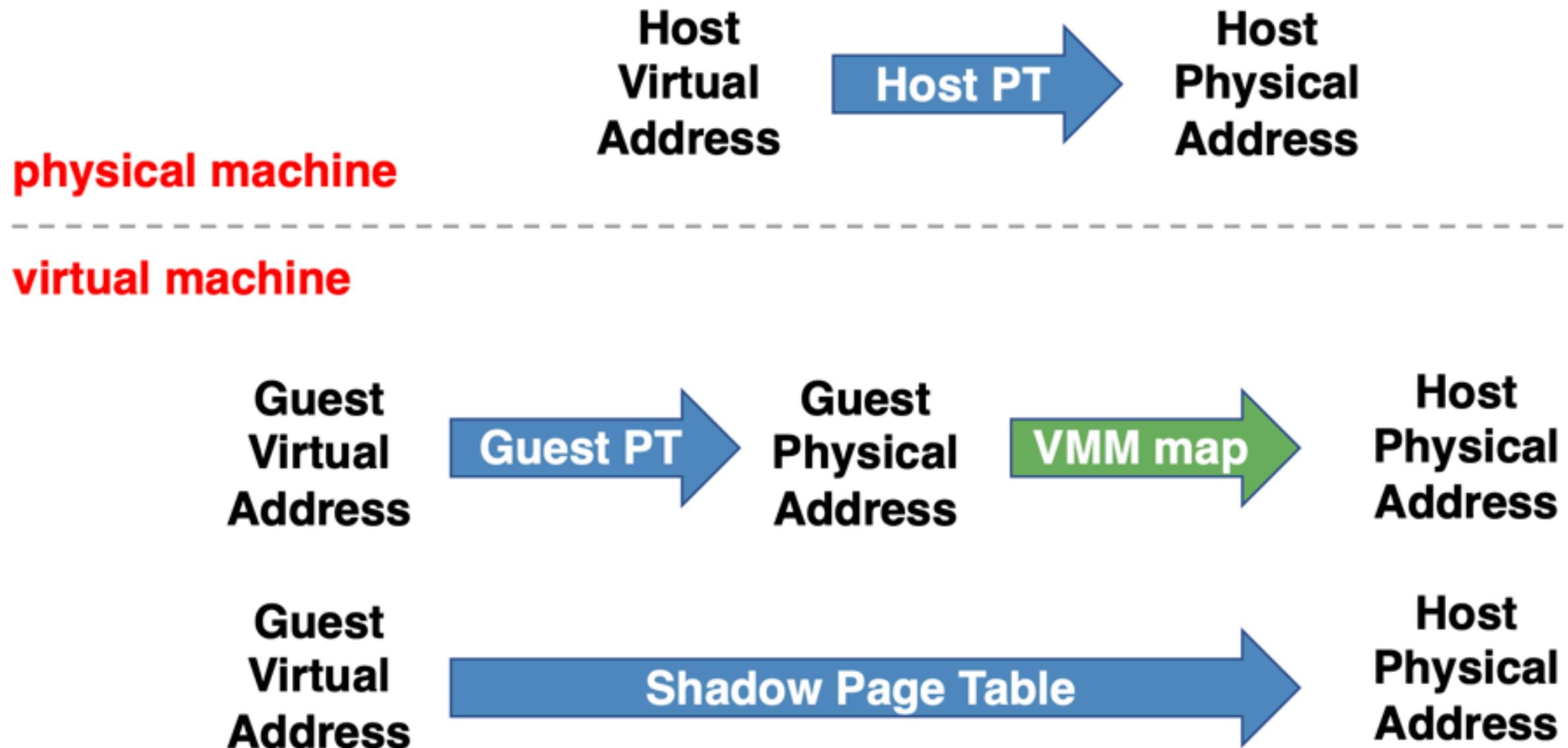


# Memory mapping summary



# Memory Allocation

VMMs tend to have simple hardware memory allocation policies

- Static - VM gets 512 MB of hardware memory for life
- No dynamic adjustment based on load  
OSes not designed to handle changes in physical memory
- No swapping to disk

More sophistication - overcommit with balloon driver

- Balloon driver runs inside OS to consume hardware pages  
steals from virtual memory and file buffer cache (balloon grows)
- Gives hardware pages to other VMs (those balloons shrink)