



HPE NONSTOP DYNAMIC CAPACITY

Scale your HPE NonStop systems to manage temporary workload spikes

Predicting workload spikes is one of the key challenges that has troubled system designers for long. With modern day practices of targeted marketing campaigns aided by artificial intelligence and social media, predicting the time and extent of such spikes has only become more challenging. A solution that manages such a spike and reduces potential disruption to your service quality is highly desirable.

HPE NonStop now offers a solution to enable you to efficiently scale your workload capacity deployed on HPE Virtualized NonStop systems and HPE NonStop X systems.

WHAT IS HPE NONSTOP DYNAMIC CAPACITY?

HPE NonStop Dynamic Capacity (NSDC) is a licensing model offered on HPE Virtualized NonStop (vNS) systems and on HPE NonStop X systems. It provides additional but temporary scale-up capacity, which you can use to manage temporary demand spikes on your HPE NonStop workload. This is an add-on licensing model, to be used on top of the regular HPE NonStop system license, such as the one-time or the term license.

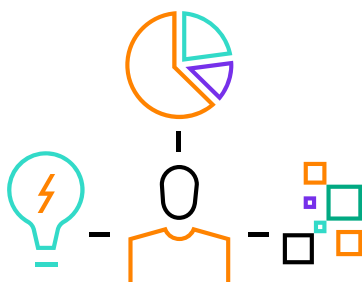
How does it work?

HPE NSDC works according to two key principles:

1. A temporary capacity is added to a system in order to help it “tide over” demand spikes that are transient in nature
2. The capacity is available for a definite term within which it needs to be consumed

HPE NSDC offers a scale-up capacity which enables a system to add two additional cores from its base configuration and is available on 2-core and 4-core HPE NS7 and vNS systems. Using HPE NSDC, 2-core and 4-core systems can scale up to 4-core and 6-core configurations respectively for a number of days as decided by the user. The usage capacity is measured in units of days.

You can purchase the HPE NSDC capacity and install it on your system. It is valid for 12 months within which it needs to be consumed. You can also decide how and when the capacity is utilized by activating the additional cores in the system—on a need basis and reverting the system back to its base configuration.



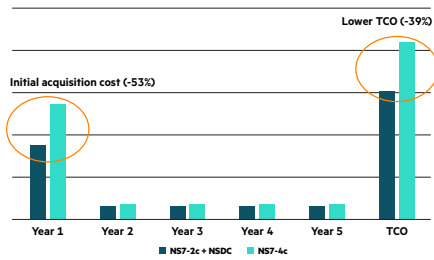


FIGURE 1. TCO comparison

How does it benefit you?

One of the factors that goes into system design is the estimated workload the system should handle to ensure a particular quality of service. To avoid loss of transactions, systems are typically designed for worst-case scenarios implying that it should be able to handle the maximum workload expected to hit the system at any given time. Many types of workloads experience transient but steep spikes in demand that are seasonal in nature. Some examples are peak shopping season, sports events, and the like. Systems designed to handle peak loads will not be utilizing the full system capacity for the most part of the year thereby increasing its total cost of ownership (TCO).

HPE NSDC offers you a cost-efficient alternative to design your system for normal workloads but temporarily augment the capacity to handle such transient demand spikes. It offers you the flexibility to top-up the capacity when you need and helps you meet customer SLAs. HPE NSDC fits well with the cloud business model, where flexibility is the overarching theme. Refer to the chart on the left for a 5 year TCO comparison between a 4-core NS7 system and a 2-core NS7 system plus NSDC.

Key features

Some of the key features of HPE NSDC:

- It is a pre-paid capacity and can be purchased in multiples of 30 days.
- It has a validity period of 12 months from the ship date.
- The system comes back to the base configuration either upon user request, or full capacity depletion or validity expiration.
- The price is linked to the software products licensed on the system.
- It can be purchased at any time during the life of a system.
- You may add additional HPE NSDC capacity to a system that already has it (useful if the existing capacity is running low but the system is expected to require it longer).
- Users have the ability to query the NSDC attributes of a system through command line. Programming APIs are available for applications to do the same.
- NonStop systems running HPE NSDC have elaborate logging features to alert the user when the system is running low on capacity or its validity is near expiration. This helps ensure availability of adequate lead time to purchase additional capacity to allow it to continue to operate at higher capacity if required.
- It uses system license file (or vCore license as it is commonly called), which uses the same license administration system as is currently used on an HPE NS7 or vNS system. It adds additional fields and attributes to the system license file to record HPE NSDC.

Ordering HPE NSDC

Licensing HPE NSDC is linked to the software products licensed on the system. Ordering HPE NSDC requires ordering the additional capacity for each of the software products licensed on the system. In order to facilitate this model, each HPE NonStop software product is associated with a unique SKU to represent the HPE NSDC capacity orderable for it. An HPE representative can help you order the software.

Refer to the section on HPE NSDC in the HPE NonStop Core Licensing Guide available at hpe.com/info/nonstop-ldocs

LEARN MORE AT

hpe.com/info/nonstop

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