

NIMBOXX HCI AU-110X: A SCALABLE, EASY-TO-USE SOLUTION FOR HYPERCONVERGED INFRASTRUCTURE (SUMMARY)

Great performance, scalability and ease-of-use with the Nimboxx AU-110x hyperconverged infrastructure solution



How much will your business grow over the next couple of years? Reaching this goal from where your business is now requires a space-efficient data center that can scale to meet your application performance demands as your services and user base grow. A hyperconverged infrastructure (HCI) appliance, such as the Nimboxx AU-110x, can unite the necessary compute, I/O, storage, networking, and virtualization resources to become an integral part of the scalable data center. In addition to delivering reliable performance and scalability, your hyperconverged appliance should be easy to manage.

At Principled Technologies, we tested two Nimboxx HCI AU-110x units to gauge:

- how well the appliance handles representative virtual machines (VM), each running a heavy online transaction processing (OLTP) database workload,
- how the solution scales as demands grow, and
- how easily an administrator can complete common management tasks.

Running its proprietary MeshOS™ software, the Nimboxx HCI AU-110x appliance can bring a solid HCI platform into your data center to help your business realize its growth potential. Read [the full report](#) for more information on testing and the HCI appliance.



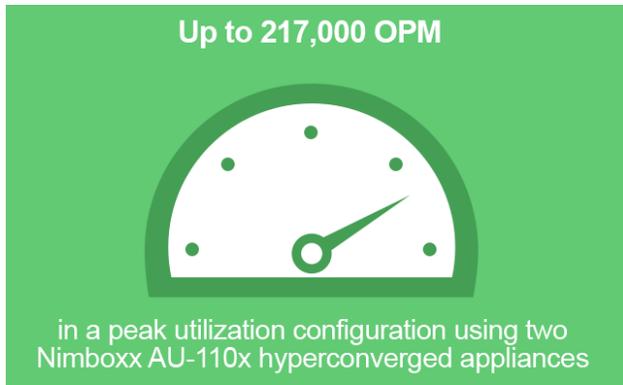


Figure 1: Strong performance capability means this solution can deliver during peak utilization times.

Peak utilization performance

No matter how many users or applications access your database, powerful performance is necessary. We measured performance simulating peak utilization of our configuration with 30 VMs, each running a maximum-performance OLTP database workload. The two Nimboxx AU-110x units delivered up to 217,676 combined orders per minute (OPM). Each VM in this configuration delivered consistent database performance, with a 30-VM average of 7,255 OPM during the test. This means the Nimboxx AU-110x can deliver high performance even when the appliance is pushed to peak resource utilization times for your business.

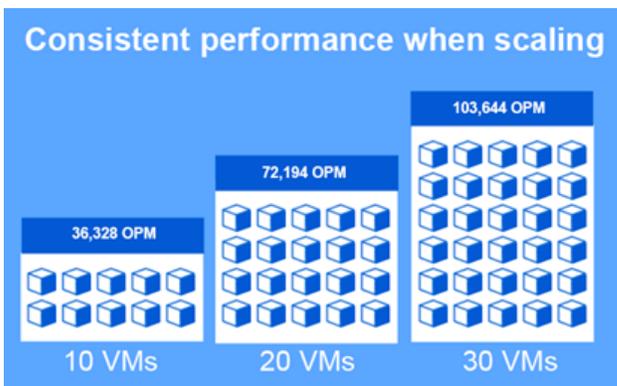


Figure 2: Performance proportional to VM count can help support business growth.

Scalable performance

When considering a new hardware purchase, it is a good practice to think beyond the immediate needs of your business. What will your users need six months from now? A year? Two? Your business needs scalability to meet your users' demands for the future.

We ran a heavy, 500-user OLTP database workload on 10 VMs. We then increased the workload by doubling the VM count to 20. For our final run, we increased the load yet again by ramping up to 30 VMs.

With each increment, the total OPM the appliances handled grew proportionally with the number of VMs. This means the added VMs did not cause significant degradation in database performance, in each case meeting the required OPM to keep up with the workload demands.

Additionally, performance remained steady across the VMs. Throughout the tests, each VM delivered consistent performance, handling on average at least 3,400 OPM. This means that as your business grows, the Nimboxx HCI AU-110x appliances are equipped to deliver performance and meet increasing demands.

Resilient, easy-to-use management features

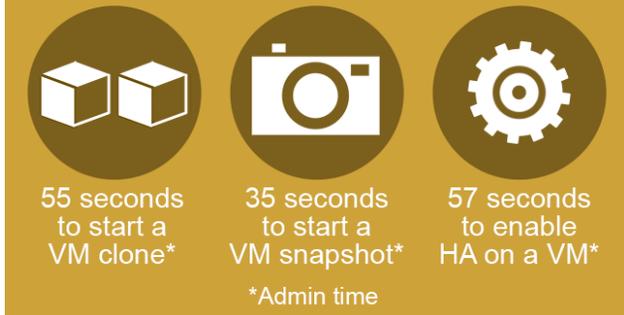


Figure 3: Simple management of virtual infrastructure means potential savings for IT staff.

Ease-of-use

In addition to providing great performance, the Nimboxx AU-110x also offers quick and easy VM management. We performed hands-on testing to see just how easy it is for an administrator to clone a VM, take a snapshot of a VM, and enable high availability (HA) mode on a VM, and in each case, the Nimboxx AU-110x required minimal administrator time to complete each task.

Your business can benefit from a hyperconverged infrastructure that provides easy-to-manage solutions that minimize IT admin time requirements. Simple appliance management can mean:

- **Keeping a smaller IT staff**—Hiring full-time IT staff to maintain appliances can be unsustainable for small- and medium-sized businesses
- **Keeping costs low**—Financial savings can come from not paying for specialized hardware training and from limiting necessary IT time and labor
- **Making time for more important data center tasks**—Your IT admin will have time to address more pressing demands
- **Reducing the chance for human error**—The fewer the steps, the less opportunity IT admins have to make mistakes

CONCLUSION

It could be well worth your time to invest in a hyperconverged infrastructure. The MeshOS-operated Nimboxx HCI AU-110x offered scalability and great performance in our hands-on tests and was simple and straightforward to use, which could help your business meet user demands and potentially save money by avoiding things such as hiring expensive IT staff to maintain your data center. For more information on testing and the HCI appliance, read [the full report](#).

ABOUT PRINCIPLED TECHNOLOGIES



Principled Technologies, Inc.
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Our founders, Mark L. Van Name and Bill Catchings, have worked together in technology assessment for over 20 years. As journalists, they published over a thousand articles on a wide array of technology subjects. They created and led the Ziff-Davis Benchmark Operation, which developed such industry-standard benchmarks as Ziff Davis Media's Winstone and WebBench. They founded and led eTesting Labs, and after the acquisition of that company by Lionbridge Technologies were the head and CTO of VeriTest.

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