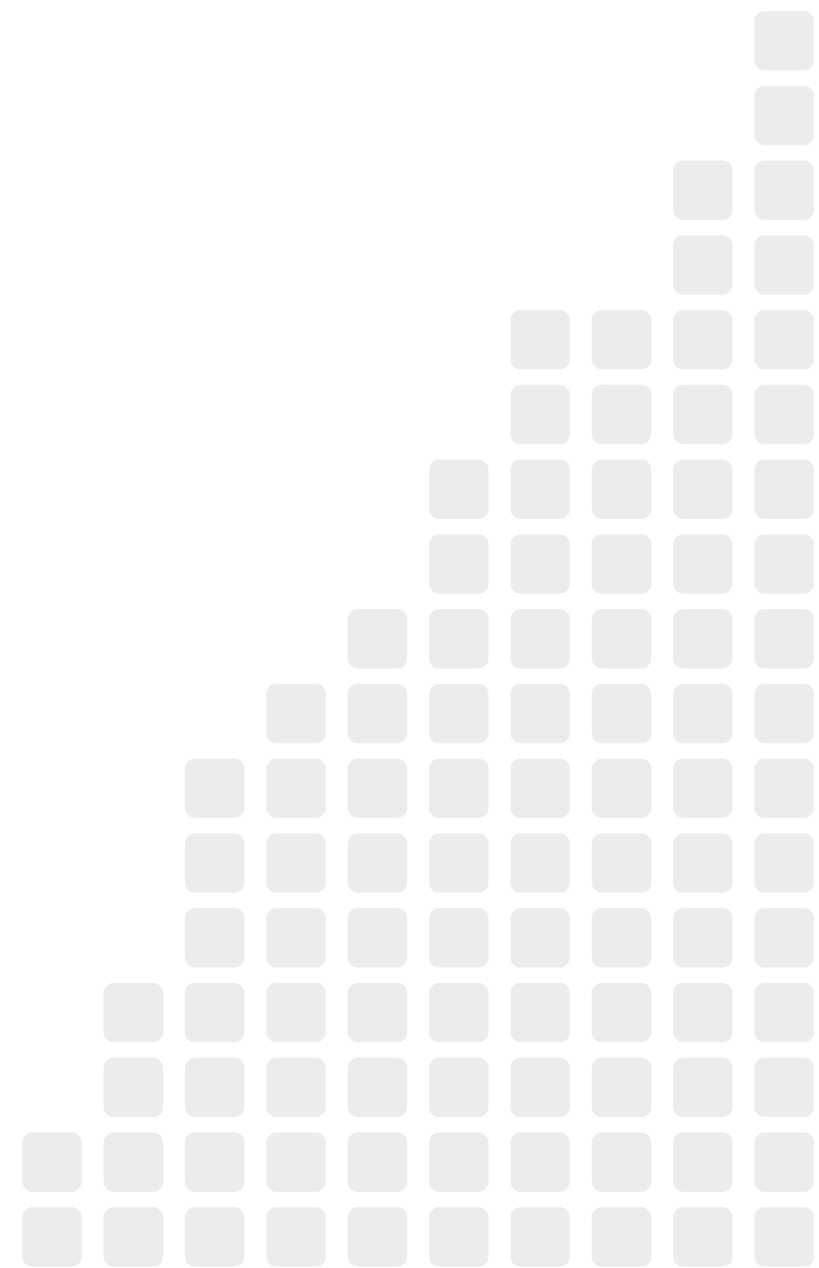




# Validating the Infinidat InfiniBox SSA II

Scott Sinclair | Practice Director





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We are increasingly recognized as **one of the world's leading analyst firms** helping technology vendors make strategic decisions across their go-to-market programs through factual, peer-based research.

ESG is a division of TechTarget Inc., the global leader in purchase intent-driven marketing and sales services focused on delivering business impact for enterprise technology companies.

# On Premises Data Continues to Scale

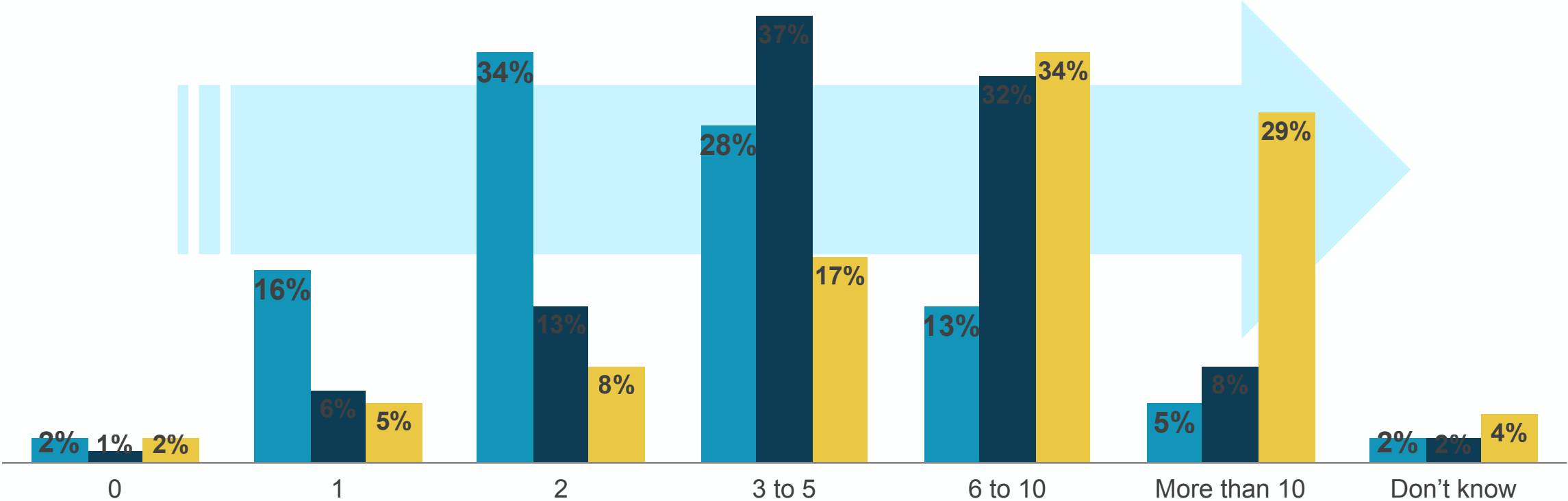
- **35%** annual growth for on-premises capacity on average. (double in less than 3 years)
- **47%** expect to increase spending on data center infrastructure, combining with an additional 48% expecting to maintain spending levels.
- **64%** agree that data storage infrastructure requirements and spending are hard to predict for our organization.



# Data Centers Poised to Continue Proliferating

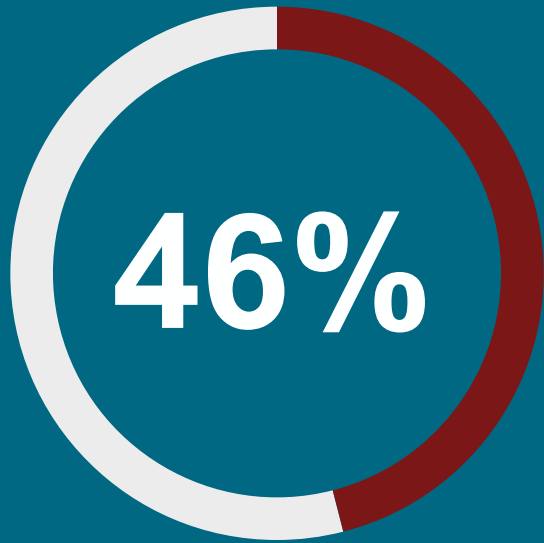
**Data Center Definition:** physical space that your organization owns, operates, and manages (i.e., **not** the data center facilities of public cloud service providers, COLOs, etc.).

■ Number of data centers five years ago ■ Number of data centers today ■ Number of data centers five years from now

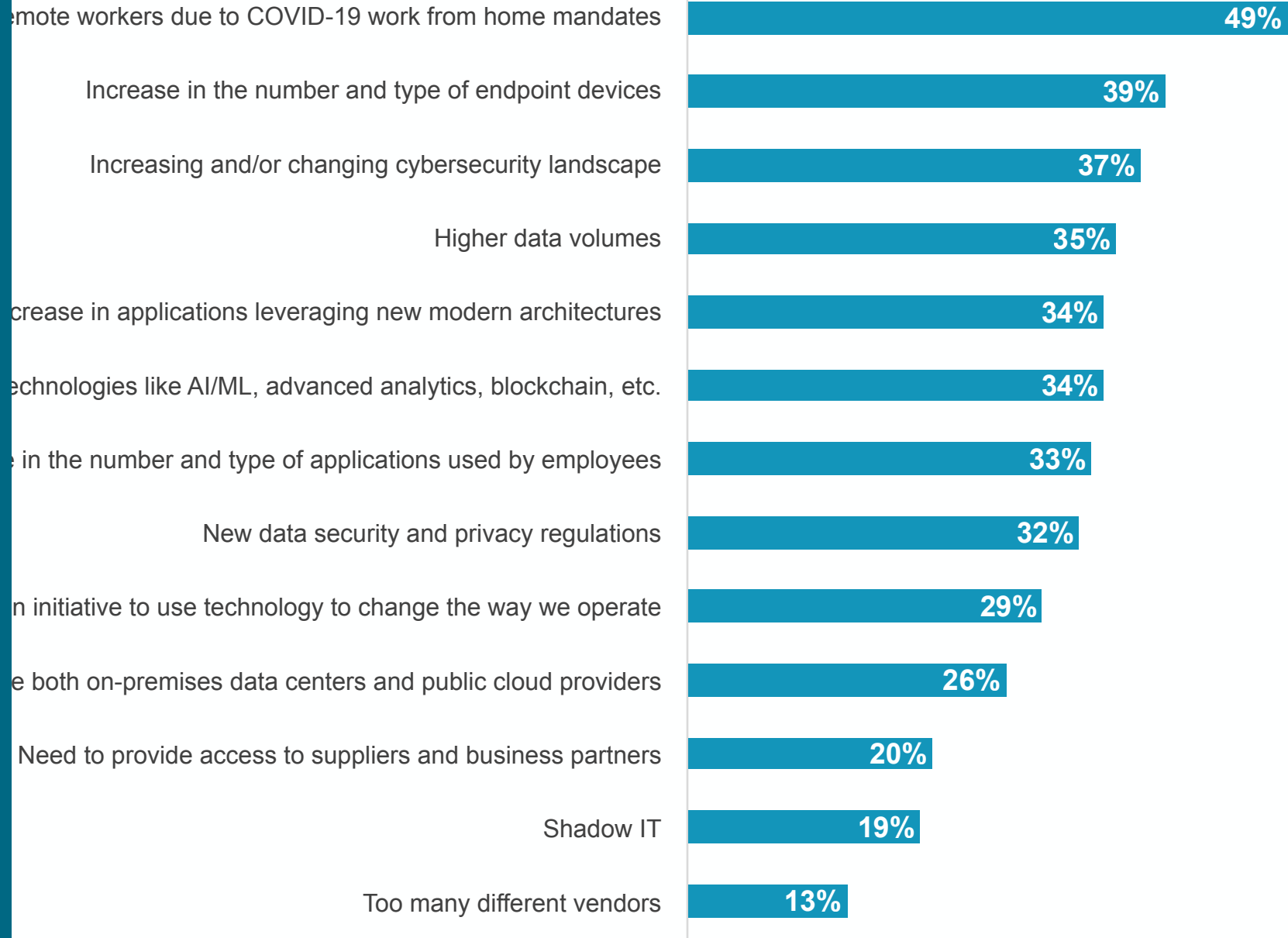


**Question text:** How many data centers did your organization operate 5 years ago? How many data centers does your organization operate today? How many data centers do you expect your organization will have in five years? (Percent of respondents, N=372)





say IT has gotten more complex over the last two years...



Question text:  
 What do you believe are the biggest reasons your organization's IT environment has become more complex? (Percent of respondents, N=329, five responses accepted)

# ESG Validation of INFINIDAT

- ESG evaluated the InfiniBox SSA II via remote product demonstrations conducted at Infinidat headquarters in Waltham, MA.
- Testing was designed to validate how the InfiniBox SSA II can deliver extremely low latencies to maximize application performance in real-world scenarios.
- ESG examined performance numbers of:
  - A real-world Oracle RAC workload of a Fortune 100 company.
  - And, a live workload deployed at a Fortune 10 company



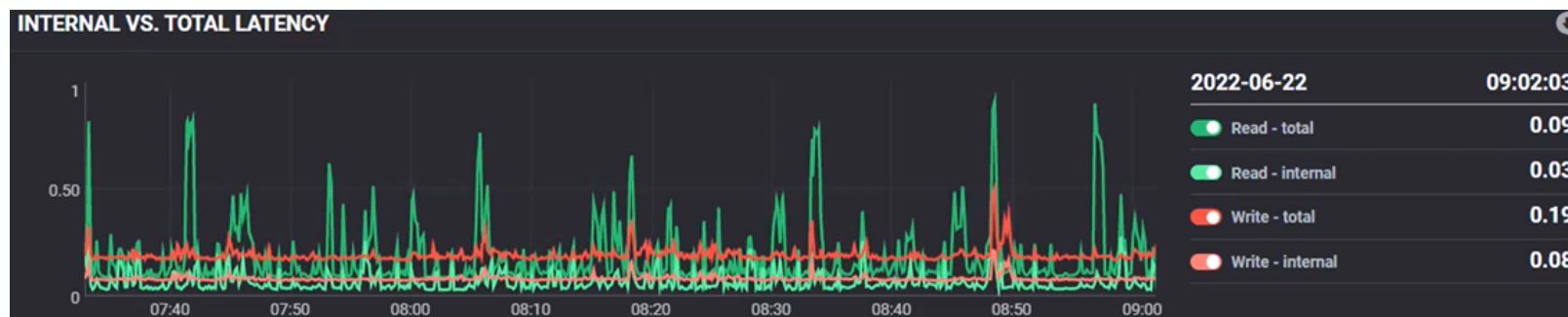
# ESG Validation of Infinidat InfiniBox SSA II in *Live Fortune 100 Environment*



ESG noted that “*Read-internal*” times remained at 30 microseconds. While we observed other “*Read-internal*” times that were greater than 30 microseconds (e.g., increasing by 10-20 microseconds), the vast majority of observed storage latencies did not deviate from 30 microseconds.

At these same timestamps, ESG observed that “*Read-total*” latencies ranged from 90 to 100 microseconds, denoting very low application latencies.

# ESG Validation of Infinidat InfiniBox SSA II in *Live Fortune 100 Environment*

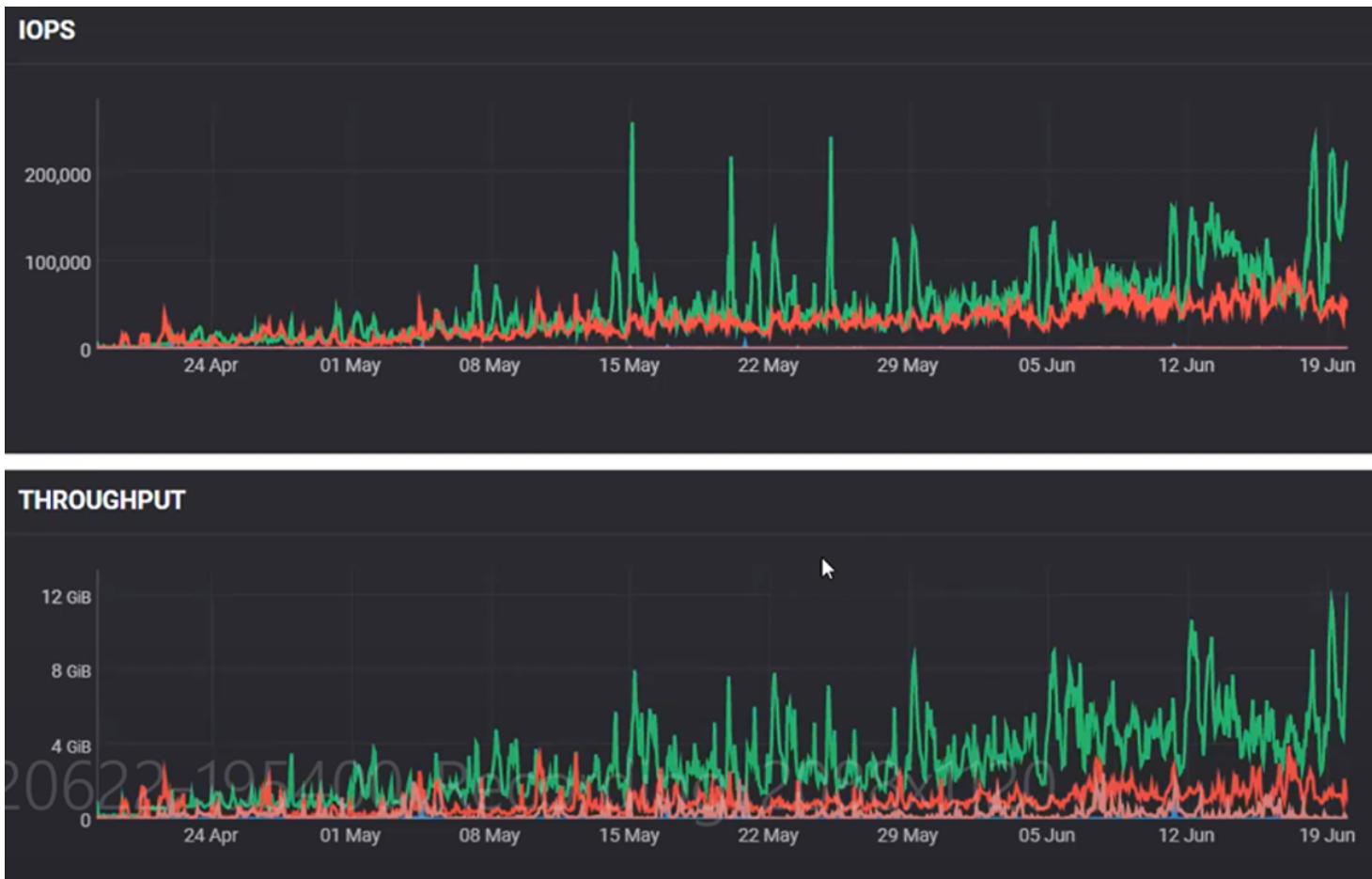


With an observed storage latency of 30 microseconds the “RAM hit ratio” was measured at 100%, indicating that all data was located on and read from DRAM.

At other times in this 30-minute period, the “RAM hit ratio” varied between 50% and 100%, indicating that data was accessed from both DRAM and the back-end SSDs. However, the majority of observed times for storage latency remained close to 30 microseconds.



## ESG Validation of Infinidat InfiniBox SSA II in *Live Fortune 10 Environment*



The InfiniBox SSA II was configured with 1PB of usable capacity. At timestamp 1:01, we observed read performance of 197,446 IOPS with a 15.01 GiB/sec throughput

ESG examined both IOPS and throughput measured over a 57-day period (between April 24 and June 19). As shown in Figure 6, read and write IOPS and throughput are slightly trending up and to the right. This indicates that performance is improving as applications continue to access the InfiniBox SSA II over time.



# Thank you

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