

Unlock the power of Google Cloud and NetApp for EDA workloads

NetApp | Google Cloud



Smaller design nodes

↓ From 7 to 3 nm
Ever smaller process nodes drive massive growth in design data volumes

Bigger problems

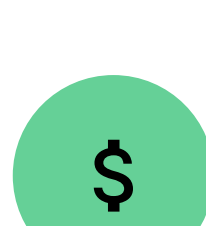
↑ 4-6X
Increase in compute and data storage requirements—outstripping on-prem expansion

Untangling the complex calculus of chip design economics



Data

- ↑ Project data and metadata
- ↑ Range of file sizes and counts
- ↑ Deep and broad directories
- ↑ >100TB to petabyte volumes



Cost

- ↑ Developers
- ↑ Licensing
- ↑ Infrastructure



Time

Fixed release windows



Top 5 reasons EDA workloads move to cloud

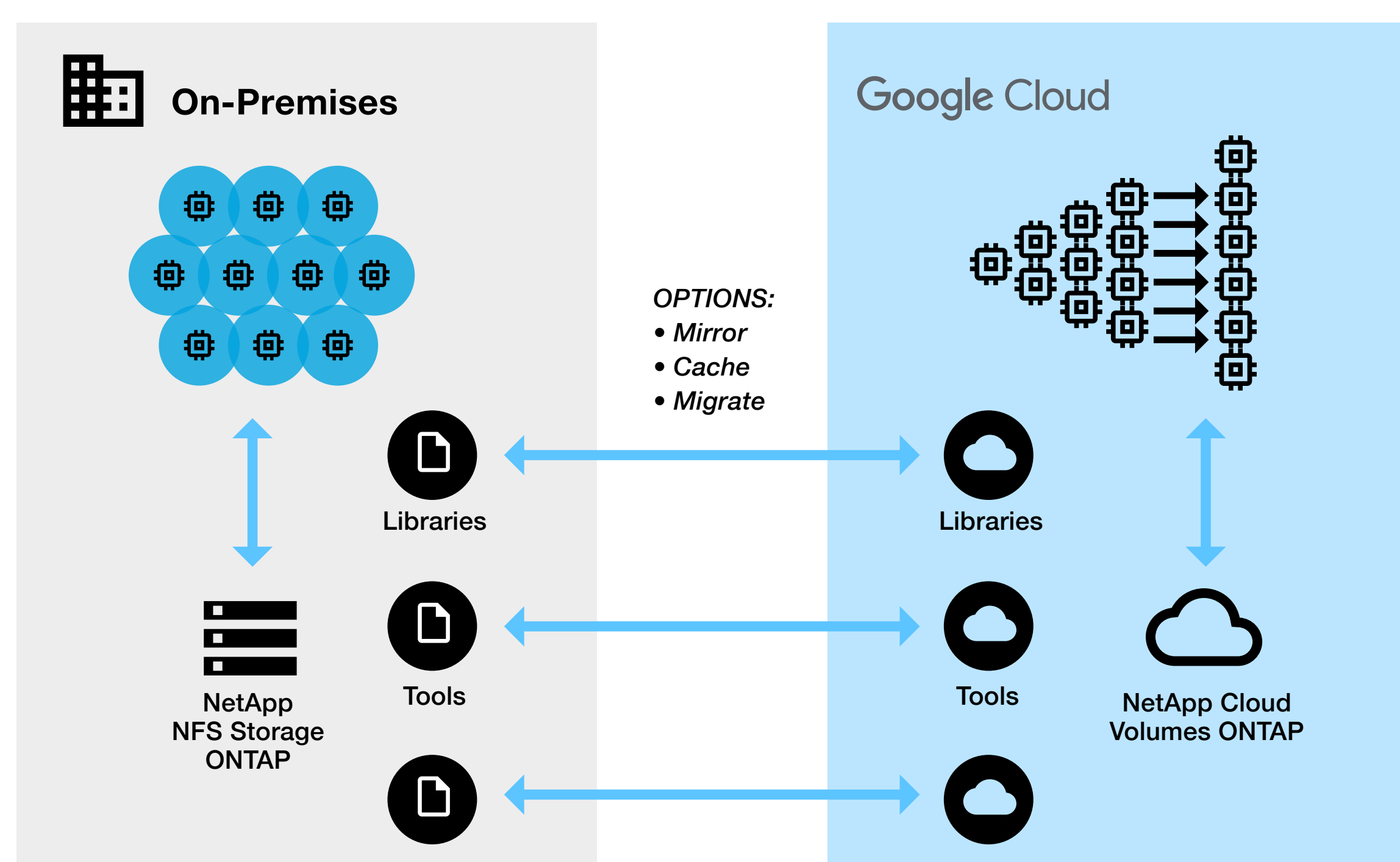
- 01 Resource utility:** Use just what you need, when you need it
- 02 Increased productivity:** Leverage massive compute and storage to achieve results faster
- 03 Access to a global infrastructure:** Keep more frequent EDA tooling upgrades in sync with infrastructure¹
- 04 Fault tolerance:** Cloud providers have redundant servers and data centers across locations
- 05 Security:** Public cloud will experience 60% fewer security incidents compared to typical data centers this year²

Powering chip design teams with on-demand compute and data resources as needed

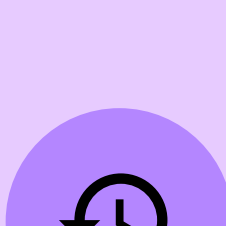
Google Cloud and NetApp provide a truly seamless hybrid cloud experience built just for EDA workflows:

- **Fast deployment and configuration** in minutes, not days
- **Maximum configuration flexibility** for compute and storage, with high availability options
- **Advanced data caching and synchronization** for mirroring, caching, or migrating data
- **Faster migrations**, with no workflow changes required

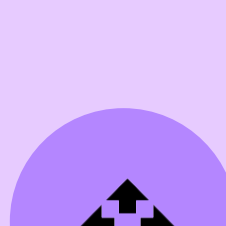
TEAMS: Design, Simulation, Validation, Physical Verification



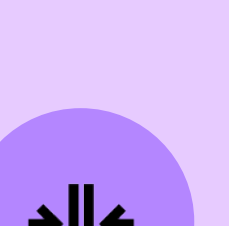
Top benefits of NetApp and Google Cloud for EDA workloads



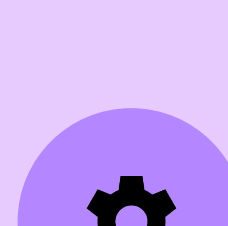
Significantly reduce time to move data to and from HPC environment



Access resources when and where needed



Streamline by caching and scaling read-only tool and library environments



Optimize data movement costs for hybrid cloud



Let's cloud-ify your EDA workloads

Discover how you can tap the full potential of cloud for EDA workloads:

- Try [Google Cloud and NetApp Cloud Volumes ONTAP](#)
- Learn more about [NetApp Cloud Volumes ONTAP for EDA](#)
- Email gcinfo@netapp.com for more information

Sources
¹ Google, "Never miss a tape-out: Faster chip design with Google Cloud," <https://cloud.google.com/blog/products/compute/faster-chip-design-with-hybrid-silicon-workflows>
² Gartner, "Cloud Strategy Leadership," https://www.gartner.com/imagesrv/books/cloud/cloud_strategy_leadership.pdf



About NetApp
 In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds. As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. To learn more, visit www.netapp.com



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