**Introduction**

**Performance**

<https://www.google.com/search?q=nextcloud+performance+measurement&hl=en&sxsrf=ALiCzsZb3UuCJcQgz75MOv3OEdld7PdhRg%3A1652282166853&source=hp&ei=NtN7YqvCMsiJhwP0s6zgBw&iflsig=AJiK0e8AAAAAYnvhRqP8nU8o3N6lGUw4beRLxnmu4tRx&oq=nextcloud+performance+measure&gs_lcp=Cgdnd3Mtd2l6EAMYADIFCCEQoAE6BAgjECc6CAgAELEDEIMBOhEILhCABBCxAxCDARDHARDRAzoICAAQgAQQsQM6CAguELEDEIMBOgsIABCABBCxAxCDAToRCC4QgAQQsQMQgwEQxwEQowI6CwguEIAEEMcBEK8BOgUIABCABDoHCC4QgAQQCjoKCAAQgAQQhwIQFDoFCAAQkQI6BggAEBYQHjoHCCEQChCgAVAAWO-wAWCEvAFoAXAAeACAAdcBiAHrJpIBBjAuMjMuNZgBAKABAQ&sclient=gws-wiz>

<https://www.zdnet.com/article/nextcloud-21-arrives-with-ten-times-better-performance/>

<https://scholar.google.com/scholar?q=nextcloud+performance+measurement&hl=en&as_sdt=0&as_vis=1&oi=scholart> - USED

**Availability**

<https://nextcloud.com/media/wp135098u/GlobalScale-Whitepaper-WebVersion-072018.pdf>

**Reliable**

https://nextcloud.com/blog/what-makes-nextcloud-so-secure/#:~:text=In%20the%20case%20of%20Nextcloud,is%20under%20their%20complete%20control.

**Analysis**

**The Reasons for Nextcloud to choose Modular architecture.**

<https://nextcloud.com.vn/wp-content/themes/nextcloud.vn/assets/files/architecture-whitepaper.pdf>

**Quality Attributes that led to the success of the system**

**Security**

**Are Nextcloud files encrypted?**

<https://nextcloud.com/encryption/>

**How does Nextcloud encryption work?**

<https://docs.nextcloud.com/server/19/user_manual/files/encrypting_files.html>

**How does Nextcloud store passwords?**

<https://help.nextcloud.com/t/encryption-passwords-app/60492>

**Performance**

**Is Nextcloud fast?**

<https://www.zdnet.com/article/nextcloud-21-arrives-with-ten-times-better-performance/>

**It comes with a wide range of performance optimizations aimed at increasing responsiveness.**

https://www.zdnet.com/article/nextcloud-21-arrives-with-ten-times-better-performance/

**Put all the improvements together**

https://www.zdnet.com/article/nextcloud-21-arrives-with-ten-times-better-performance/

**Reliable**

**How reliable is Nextcloud?**

<https://www.tomsguide.com/reviews/nextcloud-review>

**Versioning is supported too**

https://www.techradar.com/reviews/nextcloud-15

**Availability**

**Nextcloud is deployed at a large scale, Nextcloud and MariaDB announce a new partnership.**

<https://nextcloud.com/blog/nextcloud-and-mariadb-collaborate-to-boost-scalability-and-high-availability-for-customers/>

**What other Quality Attributes were affected? and how so?**

**Maintainability**

<https://docs.nextcloud.com/server/latest/admin_manual/maintenance/update.html>

**Compatibility**

<https://www.utsc.utoronto.ca/iits/nextcloud-0#:~:text=The%20Nextcloud%20sync%20client%20is,App%20stores%20at%20no%20cost>.

**Usability.**

<https://nextcloud.com/design/>

<https://nextcloud.com/blog/nextcloud-16-introduces-machine-learning-based-security-and-usability-features-acl-permissions-and-cross-app-projects/>

**Did the System’s Architecture evolve over time? If so why?**

<https://nextcloud.com/blog/nextcloud-announces-global-scale-architecture-as-part-of-nextcloud-12/>

**Trade-offs made by Nextcloud**

<https://nextcloud.com/blog/nextcloud-announces-global-scale-architecture-as-part-of-nextcloud-12/> 🡪cost efficiency

**Your judgement/recommendations/suggestions**

~~<https://docs.nextcloud.com/server/latest/admin_manual/installation/server_tuning.html>~~

~~https://restoreprivacy.com/cloud-storage/reviews/nextcloud/~~

~~(How do I increase my Nextcloud performance? Using cron to perform background jobs. Reducing system load. Caching. Using MariaDB/MySQL instead of SQLite. Using Redis-based transactional file locking. TLS / encryption app. Enable HTTP/2 for faster loading. Tune PHP-FPM.)~~

[~~https://docs.nextcloud.com/server/latest/admin\_manual/installation/harden\_server.html#:~:text=enabledPreviewProviders%20option%20switch.-,Use%20HTTPS,to%20never%20allow%20unencrypted%20HTTP~~](https://docs.nextcloud.com/server/latest/admin_manual/installation/harden_server.html#:~:text=enabledPreviewProviders%20option%20switch.-,Use%20HTTPS,to%20never%20allow%20unencrypted%20HTTP)

**recommendations**

<https://portal.nextcloud.com/article/nextcloud-deployment-recommendations-7.html>

**suggestions**

https://www.g2.com/products/nextcloud/reviews

**Compare**

<https://nextcloud.com/compare/>

**Conclusion**

<https://www.wikiwand.com/en/Nextcloud>

~~Most of the storage services are propriety but Nextcloud is open source.~~

~~Nextcloud has large file support but most of the other storage services does not support that.~~

~~File versioning is available in Nextcloud but most of the other services does not available that one.~~

~~Multiple link sharing is not available in most of the storage services but it is available in the Nextcloud.~~

~~Nextcloud is compatible with inter-server sharing but most of the cloud services does not compatible with that one.~~

~~Client side end-to-end encryption feature is available in the Next cloud but most of the cloud services does not have that feature.~~