

White paper



daDup: Amazon S3 compatible storage

daDup offers object storage using the Amazon S3 (Simple Storage Service) protocol.

No third-party public cloud services are used. Your data is stored on our privately owned servers in Dutch datacenters.



Typical usage

There are many usecases for daDup. Any S3 compatible client or device can use the storage. daDup is meant to store your data off-site in a safe datacenter in Europe for backup or regular access. Duplicating data from a storage cluster, NAS or even a PC as backup or as a secondary storage location is configured in a few minutes. daDup is not meant for frequent access use like hosting websites or e-mail.

Using daDup

Many software and devices are able to use daDup as storage backend. Typically you have to provide a server name, access key and secret key. Your software or device can then store data as objects within resources called "buckets". You can store as many objects as you want within a bucket, and write, read, and delete objects in your bucket. Each device can use his own bucket.

Scalable

With daDup, you can store as much data as you want and access it as needed. No need to guess how much storage you need in the future. Scale up and down as required, dramatically increasing business agility.

Accounting

Storage	Counted. Peak usage in a month.
Traffic to daDup	Unlimited
Traffic from daDup	Counted if more than 100 Gbytes
PUT requests	Unlimited
GET requests	Unlimited
COPY requests	Unlimited
POST requests	Unlimited
Amount of buckets	Unlimited
Amount of objects in a bucket	Unlimited

Environment

Where, how, by whom. The data is stored on a cluster that is housed in datacenters which provide redundant power supplies and cooling. Combined with redundant internet access it is an environment that results in a high uptime.



Keeping data safe

The daDup cluster is configured to store one replica. The data is directly duplicated in case of failure of a disk or a node so there will be a replica again after duplication is finished. Losing a disk or a server has no impact on the availability of the daDup service. Expanding the cluster with disks or servers happens seamlessly and without any downtime.

Encryption

You can securely upload or download your data to daDup using the HTTPS protocol. You are free (and encouraged) to use client encryption to encrypt your data before uploading it to daDup.

IPv6 support

daDup supports both IPv4 and IPv6 addressing. With IPv6 protocol support, you can meet IPv6 compliance requirements, integrate with existing IPv6-based on-premises applications, and remove the need for expensive networking equipment to handle the address translation.

Monitoring

The daDup service is monitored 24x7. Our engineers are automatically alerted in case of an incident.

Location

The availability of a solution depends on the location and availability of power, cooling, infrastructure and physical security. Our datacenters are in Ede, The Netherlands.

The datacenter

Construction	Data center
Height service area	Minimal 6 meters above NAP
Fire detection	Two independent, certified very early warning systems Automatic notification to fire brigade
Fire extinguishing	Certified Argonite (Ar+N ²) installation
Cooling installation	N+1 computairs N+1 cooling machines
Cooling power output	1500 W/m ²
Temperature	25 °C (+/- 2 °C) in cold paths
Lightning protection	Certified according to NEN norms
Electrical installation	Two incoming feeds into rack Separate UPS for every feed
Emergency power supply	N+1 diesel aggregates
Diesel supply	48 hours
Power per rack	Up to 96 A
Information security	ISO/IEC 27001 and NEN 7510 certified
Physical security	VEC certified safety class 4*
Alarm	Redundant connection to control center
Surveillance	Two independent surveillance services
Access control	Two factor authentication Biometric iris scanners RFID access passes
Internet Access	Router 1: 1 Gbit/s transit Joint Transit 1 Gbit/s peering NL-ix Router 2: 1 Gbit/s transit BIT
Support	24x7

Tuxis info

daDup is a product of Tuxis Internet Engineering V.O.F.

Tuxis Internet Engineering V.O.F.

Frankeneng 110B
6716 AA, Ede
Netherlands

Email: info@tuxis.nl

Website Dutch: <https://www.tuxis.nl/>

Website English: <https://www.tuxis.nl/en/>

Website daDup Dutch: <https://www.dadup.eu/nl/>

Website daDup English: <https://www.dadup.eu/>

Tel: [0318-200208](tel:0318-200208)

Fax: 0318-830215

Chamber of commerce: 61527076

VAT nr: NL854376999B01

Bank: ABN-AMRO

IBAN/SEPA Number: NL54ABNA0437576094

BIC Number: ABNANL2A

