



ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ ގެ ދަށުން

ދިވެހި

ރާއްޖޭގެ ޖުމްހޫރިއްޔާ

ސަރުކާރުގެ ޖުމްހޫރިއްޔާގެ ސަރުކާރުގެ ޖުމްހޫރިއްޔާ (ސަރުކާރު) ގެ ދަށުން

ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާގެ ސަރުކާރުގެ ޖުމްހޫރިއްޔާ (ސަރުކާރު) ގެ ދަށުން  
ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާގެ ސަރުކާރުގެ ޖުމްހޫރިއްޔާ

ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާގެ ސަރުކާރުގެ ޖުމްހޫރިއްޔާ

14 ސެޕްޓެމްބަރު 2025

ދިވެހި

11:00

މާލެ

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



ދިވެހިރާއްޖޭގެ ގެޒެޓް ގައި  
ބަޔާންކުރި  
ދިވެހިރާއްޖޭގެ

ދިވެހިރާއްޖޭގެ ގެޒެޓް ގައި ބަޔާންކުރި ދިވެހިރާއްޖޭގެ

އިދާރާތްތަކުގެ ސަރުކާރު: (IUL)433-CA/1/2025/22

މިއަހަރުގެ ސަރުކާރުގެ ސަރުކާރުގެ ސަރުކާރު (ސަރުކާރު) ގެ ސަރުކާރު

މިއަހަރުގެ ސަރުކާރުގެ ސަރުކާރުގެ ސަރުކާރު (ސަރުކާރު) ގެ ސަރުކާރު

ސަރުކާރުގެ ސަރުކާރުގެ ސަރުކާރުގެ ސަރުކާރު.

## 1. Overview

Two Network Attached Storage (NAS) units configured for secure, redundant archival backup using enterprise-grade 4TB hard drives. Designed for reliable long-term data storage with protection and efficient access.

2. Hardware Configuration

| Component             | Specification                           |
|-----------------------|-----------------------------------------|
| Number of Units       | 2                                       |
| Drive Bays (per unit) | 4 × 3.5"/2.5" SATA HDD/SSD              |
| Drives (per unit)     | 4 × 4TB Enterprise HDD                  |
| Total Raw Capacity    | 16 TB (4 × 4 TB per unit)               |
| RAM                   | 2 GB DDR4 (non-upgradeable)             |
| Network Interfaces    | 2 × 1GbE RJ45 ports                     |
| Cache (optional)      | 2 × M.2 NVMe slots (no drives included) |

3. Storage & Data Protection

| Feature                   | Description                                      |
|---------------------------|--------------------------------------------------|
| RAID Configuration        | RAID 5 (or equivalent)                           |
| Usable Storage (per unit) | ~12 TB usable (with 4 × 4 TB RAID 5)             |
| File System               | Btrfs (recommended)                              |
| Data Redundancy           | Across drives in each NAS unit                   |
| Backup Between Units      | Scheduled rsync (or equivalent replication tool) |

4. Power & Cooling

- Power Consumption: ~28.3 W (active) per unit
- Noise Level: ~19.8 dB(A)
- Cooling: 2 × 92 mm fans, temperature controlled

5. Software & Features

Snapshot & Versioning: Up to 1024 snapshots per volume

Encryption: AES-NI hardware encryption supported

Remote Access & Sync: Secure web and mobile access methods

Backup Solutions: Multi-destination backup support (cloud, local, offsite)

Security: Antivirus, firewall, 2FA options

User Access Control: Flexible user/group permissions

6. Suitable For

Reliable digital archival storage with redundancy

Enterprise HDDs ensure 24/7 operation and high workload endurance

Data protection via RAID and snapshot versioning

Regular scheduled backups between NAS units for disaster recovery  
Suitable for business long-term digital archival needs

7. Example RAID Setup

| NAS Unit | RAID Type | Raw Capacity | Usable Capacity | Fault Tolerance |
|----------|-----------|--------------|-----------------|-----------------|
| Unit 1   | RAID 5    | 16 TB        | ~12 TB          | 1 drive failure |
| Unit 2   | RAID 5    | 16 TB        | ~12 TB          | 1 drive failure |

Note: Schedule backups from Unit 1 to Unit 2 for additional protection.

8. Enterprise HDD Requirements (4TB Class)

- Number of Units: 8
- Capacity: 4 TB
- Form Factor: 3.5" SATA
- Spindle Speed: 7200 RPM
- Cache: 128–256 MB
- Endurance: ≥ 1.2M hours MTBF
- Workload Rating: ≥ 180 TB/year
- Designed for 24/7 NAS or enterprise operation

9. Recommended UPS Requirements (2 UPS)

For reliable operation and protection against power outages, each NAS unit should be connected to a dedicated Uninterruptible Power Supply (UPS).

- Number of Units: 2
- Capacity: Minimum 600 VA / 360 W per NAS unit
- Type: Line-Interactive UPS (recommended)
- Backup Runtime: At least 10–15 minutes on load
- Output: Pure sine wave output preferred for sensitive electronics
- Features: USB/Network management port for automatic safe shutdown
- Surge Protection: Integrated surge and spike protection
- Scalability: Option for external battery packs (for extended runtime)

10. Training & Setup

Setup Requirements

- Initial NAS installation and RAID configuration (per unit)
- Network configuration (IP assignment, VLAN if applicable, link aggregation)
- File system setup (Btrfs with snapshot/versioning enabled)
- User and group access configuration with permissions
- Backup schedule configuration (Unit 1 → Unit 2 replication)





3. ارفوژا شوستر دسری سر

1.  $\frac{1}{x^2} = x^{-2}$   $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$   
 2.  $\frac{1}{x^3} = x^{-3}$   $\frac{d}{dx} x^{-3} = -3x^{-4} = -\frac{3}{x^4}$   
 3.  $\frac{1}{x^4} = x^{-4}$   $\frac{d}{dx} x^{-4} = -4x^{-5} = -\frac{4}{x^5}$   
 4.  $\frac{1}{x^5} = x^{-5}$   $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$   
 5.  $\frac{1}{x^6} = x^{-6}$   $\frac{d}{dx} x^{-6} = -6x^{-7} = -\frac{6}{x^7}$   
 6.  $\frac{1}{x^7} = x^{-7}$   $\frac{d}{dx} x^{-7} = -7x^{-8} = -\frac{7}{x^8}$   
 7.  $\frac{1}{x^8} = x^{-8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$   
 8.  $\frac{1}{x^9} = x^{-9}$   $\frac{d}{dx} x^{-9} = -9x^{-10} = -\frac{9}{x^{10}}$   
 9.  $\frac{1}{x^{10}} = x^{-10}$   $\frac{d}{dx} x^{-10} = -10x^{-11} = -\frac{10}{x^{11}}$   
 10.  $\frac{1}{x^{11}} = x^{-11}$   $\frac{d}{dx} x^{-11} = -11x^{-12} = -\frac{11}{x^{12}}$   
 11.  $\frac{1}{x^{12}} = x^{-12}$   $\frac{d}{dx} x^{-12} = -12x^{-13} = -\frac{12}{x^{13}}$   
 12.  $\frac{1}{x^{13}} = x^{-13}$   $\frac{d}{dx} x^{-13} = -13x^{-14} = -\frac{13}{x^{14}}$   
 13.  $\frac{1}{x^{14}} = x^{-14}$   $\frac{d}{dx} x^{-14} = -14x^{-15} = -\frac{14}{x^{15}}$   
 14.  $\frac{1}{x^{15}} = x^{-15}$   $\frac{d}{dx} x^{-15} = -15x^{-16} = -\frac{15}{x^{16}}$   
 15.  $\frac{1}{x^{16}} = x^{-16}$   $\frac{d}{dx} x^{-16} = -16x^{-17} = -\frac{16}{x^{17}}$   
 16.  $\frac{1}{x^{17}} = x^{-17}$   $\frac{d}{dx} x^{-17} = -17x^{-18} = -\frac{17}{x^{18}}$   
 17.  $\frac{1}{x^{18}} = x^{-18}$   $\frac{d}{dx} x^{-18} = -18x^{-19} = -\frac{18}{x^{19}}$   
 18.  $\frac{1}{x^{19}} = x^{-19}$   $\frac{d}{dx} x^{-19} = -19x^{-20} = -\frac{19}{x^{20}}$   
 19.  $\frac{1}{x^{20}} = x^{-20}$   $\frac{d}{dx} x^{-20} = -20x^{-21} = -\frac{20}{x^{21}}$   
 20.  $\frac{1}{x^{21}} = x^{-21}$   $\frac{d}{dx} x^{-21} = -21x^{-22} = -\frac{21}{x^{22}}$   
 21.  $\frac{1}{x^{22}} = x^{-22}$   $\frac{d}{dx} x^{-22} = -22x^{-23} = -\frac{22}{x^{23}}$   
 22.  $\frac{1}{x^{23}} = x^{-23}$   $\frac{d}{dx} x^{-23} = -23x^{-24} = -\frac{23}{x^{24}}$   
 23.  $\frac{1}{x^{24}} = x^{-24}$   $\frac{d}{dx} x^{-24} = -24x^{-25} = -\frac{24}{x^{25}}$   
 24.  $\frac{1}{x^{25}} = x^{-25}$   $\frac{d}{dx} x^{-25} = -25x^{-26} = -\frac{25}{x^{26}}$   
 25.  $\frac{1}{x^{26}} = x^{-26}$   $\frac{d}{dx} x^{-26} = -26x^{-27} = -\frac{26}{x^{27}}$   
 26.  $\frac{1}{x^{27}} = x^{-27}$   $\frac{d}{dx} x^{-27} = -27x^{-28} = -\frac{27}{x^{28}}$   
 27.  $\frac{1}{x^{28}} = x^{-28}$   $\frac{d}{dx} x^{-28} = -28x^{-29} = -\frac{28}{x^{29}}$   
 28.  $\frac{1}{x^{29}} = x^{-29}$   $\frac{d}{dx} x^{-29} = -29x^{-30} = -\frac{29}{x^{30}}$   
 29.  $\frac{1}{x^{30}} = x^{-30}$   $\frac{d}{dx} x^{-30} = -30x^{-31} = -\frac{30}{x^{31}}$   
 30.  $\frac{1}{x^{31}} = x^{-31}$   $\frac{d}{dx} x^{-31} = -31x^{-32} = -\frac{31}{x^{32}}$   
 31.  $\frac{1}{x^{32}} = x^{-32}$   $\frac{d}{dx} x^{-32} = -32x^{-33} = -\frac{32}{x^{33}}$   
 32.  $\frac{1}{x^{33}} = x^{-33}$   $\frac{d}{dx} x^{-33} = -33x^{-34} = -\frac{33}{x^{34}}$   
 33.  $\frac{1}{x^{34}} = x^{-34}$   $\frac{d}{dx} x^{-34} = -34x^{-35} = -\frac{34}{x^{35}}$   
 34.  $\frac{1}{x^{35}} = x^{-35}$   $\frac{d}{dx} x^{-35} = -35x^{-36} = -\frac{35}{x^{36}}$   
 35.  $\frac{1}{x^{36}} = x^{-36}$   $\frac{d}{dx} x^{-36} = -36x^{-37} = -\frac{36}{x^{37}}$   
 36.  $\frac{1}{x^{37}} = x^{-37}$   $\frac{d}{dx} x^{-37} = -37x^{-38} = -\frac{37}{x^{38}}$   
 37.  $\frac{1}{x^{38}} = x^{-38}$   $\frac{d}{dx} x^{-38} = -38x^{-39} = -\frac{38}{x^{39}}$   
 38.  $\frac{1}{x^{39}} = x^{-39}$   $\frac{d}{dx} x^{-39} = -39x^{-40} = -\frac{39}{x^{40}}$   
 39.  $\frac{1}{x^{40}} = x^{-40}$   $\frac{d}{dx} x^{-40} = -40x^{-41} = -\frac{40}{x^{41}}$   
 40.  $\frac{1}{x^{41}} = x^{-41}$   $\frac{d}{dx} x^{-41} = -41x^{-42} = -\frac{41}{x^{42}}$   
 41.  $\frac{1}{x^{42}} = x^{-42}$   $\frac{d}{dx} x^{-42} = -42x^{-43} = -\frac{42}{x^{43}}$   
 42.  $\frac{1}{x^{43}} = x^{-43}$   $\frac{d}{dx} x^{-43} = -43x^{-44} = -\frac{43}{x^{44}}$   
 43.  $\frac{1}{x^{44}} = x^{-44}$   $\frac{d}{dx} x^{-44} = -44x^{-45} = -\frac{44}{x^{45}}$   
 44.  $\frac{1}{x^{45}} = x^{-45}$   $\frac{d}{dx} x^{-45} = -45x^{-46} = -\frac{45}{x^{46}}$   
 45.  $\frac{1}{x^{46}} = x^{-46}$   $\frac{d}{dx} x^{-46} = -46x^{-47} = -\frac{46}{x^{47}}$   
 46.  $\frac{1}{x^{47}} = x^{-47}$   $\frac{d}{dx} x^{-47} = -47x^{-48} = -\frac{47}{x^{48}}$   
 47.  $\frac{1}{x^{48}} = x^{-48}$   $\frac{d}{dx} x^{-48} = -48x^{-49} = -\frac{48}{x^{49}}$   
 48.  $\frac{1}{x^{49}} = x^{-49}$   $\frac{d}{dx} x^{-49} = -49x^{-50} = -\frac{49}{x^{50}}$   
 49.  $\frac{1}{x^{50}} = x^{-50}$   $\frac{d}{dx} x^{-50} = -50x^{-51} = -\frac{50}{x^{51}}$   
 50.  $\frac{1}{x^{51}} = x^{-51}$   $\frac{d}{dx} x^{-51} = -51x^{-52} = -\frac{51}{x^{52}}$   
 51.  $\frac{1}{x^{52}} = x^{-52}$   $\frac{d}{dx} x^{-52} = -52x^{-53} = -\frac{52}{x^{53}}$   
 52.  $\frac{1}{x^{53}} = x^{-53}$   $\frac{d}{dx} x^{-53} = -53x^{-54} = -\frac{53}{x^{54}}$   
 53.  $\frac{1}{x^{54}} = x^{-54}$   $\frac{d}{dx} x^{-54} = -54x^{-55} = -\frac{54}{x^{55}}$   
 54.  $\frac{1}{x^{55}} = x^{-55}$   $\frac{d}{dx} x^{-55} = -55x^{-56} = -\frac{55}{x^{56}}$   
 55.  $\frac{1}{x^{56}} = x^{-56}$   $\frac{d}{dx} x^{-56} = -56x^{-57} = -\frac{56}{x^{57}}$   
 56.  $\frac{1}{x^{57}} = x^{-57}$   $\frac{d}{dx} x^{-57} = -57x^{-58} = -\frac{57}{x^{58}}$   
 57.  $\frac{1}{x^{58}} = x^{-58}$   $\frac{d}{dx} x^{-58} = -58x^{-59} = -\frac{58}{x^{59}}$   
 58.  $\frac{1}{x^{59}} = x^{-59}$   $\frac{d}{dx} x^{-59} = -59x^{-60} = -\frac{59}{x^{60}}$   
 59.  $\frac{1}{x^{60}} = x^{-60}$   $\frac{d}{dx} x^{-60} = -60x^{-61} = -\frac{60}{x^{61}}$   
 60.  $\frac{1}{x^{61}} = x^{-61}$   $\frac{d}{dx} x^{-61} = -61x^{-62} = -\frac{61}{x^{62}}$   
 61.  $\frac{1}{x^{62}} = x^{-62}$   $\frac{d}{dx} x^{-62} = -62x^{-63} = -\frac{62}{x^{63}}$   
 62.  $\frac{1}{x^{63}} = x^{-63}$   $\frac{d}{dx} x^{-63} = -63x^{-64} = -\frac{63}{x^{64}}$   
 63.  $\frac{1}{x^{64}} = x^{-64}$   $\frac{d}{dx} x^{-64} = -64x^{-65} = -\frac{64}{x^{65}}$

[illegible]

ආර්ථික විද්‍යා පර්යේෂණ මධ්‍යස්ථානය  
info@archives.gov.mv 3010960

1447 ۱۰

02 ستمبر 2025

ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ  
 ގެ  
 ދިވެހިރާއްޖޭގެ

ފޮތް 1

ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ

|                                                           |                             | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ |
|-----------------------------------------------------------|-----------------------------|-----------------------------|
| ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ (ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ) | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ |
|                                                           |                             |                             |
|                                                           |                             |                             |
|                                                           |                             |                             |
|                                                           |                             |                             |
| ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ                               |                             | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ |
|                                                           |                             | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ |
|                                                           |                             | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ |
|                                                           |                             | ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ |



*(Musical notation for the second staff)*

☎ (+960) 3010960 ✉ [info@archives.gov.mv](mailto:info@archives.gov.mv), fb: National Archives of Maldives



سُرُورِ عَزِزِ مَحْمُودِ عَزِزِ مَحْمُودِ عَزِزِ مَحْمُودِ

☎ (+960) 3010960 ✉ [info@archives.gov.mv](mailto:info@archives.gov.mv), fb: National Archives of Maldives

[illegible]

☎ (+960) 3010960 ✉ [info@archives.gov.mv](mailto:info@archives.gov.mv), fb: National Archives of Maldives

## 5 - ޖަވާބު

ދިވެހިރާއްޖޭގެ ތާރީޚީ ފޮތްތަކުގެ ބޭނުންކުރާ ފޮތްތަކުގެ ތަޢާރު (3 ވަނަ ބައި) ފޮތްތަކުގެ ތަޢާރު ފޮތްތަކުގެ ތަޢާރު

| ފޮތްތަކުގެ ތަޢާރު ފޮތްތަކުގެ ތަޢާރު ފޮތްތަކުގެ ތަޢާރު ފޮތްތަކުގެ ތަޢާރު |                   |                   |                   |                                                       |
|-------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------------------------------------------|
| #                                                                       | ފޮތްތަކުގެ ތަޢާރު | ފޮތްތަކުގެ ތަޢާރު | ފޮތްތަކުގެ ތަޢާރު | ފޮތްތަކުގެ ތަޢާރު (ނަންބަރު ނުވަތަ ފޮތްތަކުގެ ތަޢާރު) |
| 1                                                                       |                   |                   |                   |                                                       |
| 2                                                                       |                   |                   |                   |                                                       |
| 3                                                                       |                   |                   |                   |                                                       |
|                                                                         |                   |                   |                   |                                                       |
|                                                                         |                   |                   |                   |                                                       |
|                                                                         |                   |                   |                   |                                                       |
|                                                                         |                   |                   |                   |                                                       |
| މަތީ ބައި                                                               |                   |                   |                   |                                                       |