Data Protection

Rely on Rubrik to Meet and Exceed NCSC Backup and Recovery Requirements

Organisations are being targeted with ransomware and malware attacks designed to gain access to backup solutions and to encrypt backup data as a precursor to a wider-scale, often crippling ransomware attack. This current threat places utmost importance on implementing a robust backup solution that can resist targeted cyber-attacks and allow organisations to recover from an attack when needed. Security audits are underway with the purpose of assessing existing backup and recovery solutions and level of alignment with NCSC (National Cyber Security Centre) guidelines.

Advanced ransomware is targeting backups—modifying or completely wiping them out. Rubrik stores data in an immutable format, protecting Rubrik backups from ransomware access or compromise. With a highly secure, simple to manage policy-based solution, Rubrik provides protection and lightning-fast recovery of workloads in the data centre, public cloud & Microsoft 365.

NCSC GUIDELINES – THE 3-2-1 RULE

The NCSC guidelines highlight the importance of keeping multiple backups and to separate them, so if one gets compromised, you have other copies. Best practise for doing this is the '3-2-1' rule:

- 3 copies of your data (1 production, and 2 held in backup)
- 2 different media or device types
- 1 copy stored off-site and offline, or be immutable by online means

Also, critical data held for recovery must be protected regularly, and there are administrative access controls to administer the backup system and data.

HOW CAN RUBRIK HELP?

- **Protect data across environments –** using a single platform to protect on premises, in the cloud and in Microsoft 365. Define policy-based SLAs to automate backup, replication and archival to easily comply with the 3-2-1 rule.

- **Immutable backups –** Rubrik protects backups from ransomware. Rubrik provides a logical airgap—protecting your data from being exposed on the network or modified either by attackers or rogue administrators.

- **Security & simplicity –** Rubrik is quick to set up, typically less than one day. The interface is intuitive and does not require extensive training or knowledge to manage.

- **Turbocharge backup and recovery –** recover entire VMs, SQL & Oracle workloads in minutes.

- **Reduce cost, reduce risk, and improve security –** easily comply with backup, security and DR audits.

- **Drive efficiency –** eliminates hundreds or thousands of backup jobs with a policy based SLA to drastically simplify day to day management and align with business requirements and standards.

- **Data governance –** identify and locate PII, NHS IDs etc across your organisation. See who has access, who last modified the data and whether the data is secure.

- **Ransomware detection –** discover ransomware activity in your data, identify blast radius of an attack and see at a granular level which files, folders, workloads have been impacted then perform surgical or full system recovery.

- **Zero space clones –** use Rubrik to recover workloads for BI reporting, patch & penetration testing, DR testing and data validation.

- **Automation** – the Rubrik platform is API driven—meaning you can integrate with tools such as ServiceNow, Splunk, Palo Alto. Rubrik provides a fully documented, programmable API explorer with powershell and python toolkits via Rubrik Build.

- **Administrative control and MFA** – define granular RBAC to delegate permissions. Enforce strong authentication using SSO, SAML, two factor authentication with RSA, TOTP with Microsoft & Google authenticator, Microsoft Entra ID and others. Set retention lock policies to prevent malicious or accidental modification of policies.

- **Centralised logging and audit** – data is centrally logged and audited. Rubrik supports SNMP, SYSLOG, email alerts and integration with SIEM solutions.

- **NAS data** – protect petabytes of data and millions of files with Rubrik for NAS. Especially useful for medical data such as PACS, 2D, 3D & CT scans etc.

- **Granular search** – data is indexed for search for any object, file or folder with the instant predictive search. Recover individual files & folders from archive locations without having to rehydrate.

- **Reporting** – reports and monitoring are natively built into the platform. Customers can create custom reports using the intuitive interface. Reports can be viewed real-time, downloaded & emailed.

- **24/7 award winning, proactive customer support** – Rubrik platforms can dial home. Customers can allow and time limit a Rubrik 'support tunnel' which allows Rubrik support to remotely diagnose, troubleshoot, upgrade your platform.

WHAT OUR CUSTOMERS ARE SAYING

"After extensive evaluation, the unanimous decision by Doncaster Council's IT team was made to implement Rubrik due to its native ability to exceed the NCSC guidelines. Rubrik is now managing our business-critical systems and ensuring they are up and running 24/7. That is worth its weight in gold in the confidence it provides me as the infrastructure lead at the council. Now that we are using Rubrik, I know we can quickly recover, and our systems are secure. The returns on functionality, recovery and Security compliance allow me to sleep easy at night."

Phil Herrington
Infrastructure Manager, Doncaster Council

How Rubrik meets and exceeds the NCSC 3-2-1 guidelines with automated policy-based protection

n = Copies of resilient isolated data archives
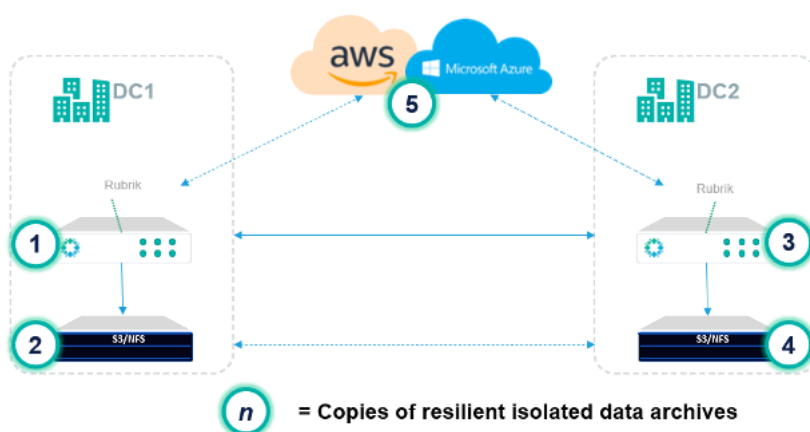
- Local Rubrik cluster provides 1st immutable backup data copy
- Remote Rubrik cluster provides 2nd immutable backup data copy with native replication
- Offsite Replication DC1 > DC2 for fast recovery
- Archive data automatically to on-prem NFS/S3 or Public cloud storage for additional backup data copies
- Rubrik Filesystem is append-only and provides native logical airgap
- Rubrik leverages integration with password standards, LDAP, SAML and 2FA to ensure access prevention
- Object storage on-premises with only Rubrik access is another layer of airgap
- Geo Replication Airgap
- Zero Trust Architecture prevents unauthorized access
- Self-Describing Data for recovery

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