



# Ransomware Prevention

## CHECKLIST

Organizations most successful in countering ransomware attacks focus on **five critical ransomware readiness actions:**

|   |  |
|---|--|
| <b>1   Protect backup data and systems</b>  | <b>KEY CAPABILITIES:</b>   |
| <ul style="list-style-type: none"><li><input type="checkbox"/> Establish regularly scheduled backups, aligned with business and compliance requirements and automated as protection policies.</li><li><input type="checkbox"/> Continuously back up workloads even after the failure of a hardware or software component.</li><li><input type="checkbox"/> Regularly patch software and scan existing systems to reduce vulnerabilities.</li><li><input type="checkbox"/> Provide visibility into security gaps in system configurations and operational designs.</li><li><input type="checkbox"/> Balance stronger security with faster digital business RTOs/RPOs that meet SLAs.</li><li><input type="checkbox"/> Invest in a robust data security and data management solution proven to protect backed up data against ransomware attacks.</li></ul> | <ul style="list-style-type: none"><li>Immutable snapshots</li><li>WORM</li><li>Data encryption</li><li>Configuration audit and scanning</li><li>Fault tolerance</li><li>Modern and flexible data isolation</li></ul> |
| <b>2   Reduce the risk of unauthorized access</b>   | <b>KEY CAPABILITIES:</b>   |
| <ul style="list-style-type: none"><li><input type="checkbox"/> Educate employees about the dangers of phishing attacks and compromised credentials.</li><li><input type="checkbox"/> Enforce Zero Trust principles including least privilege and MFA in the data security and management solution.</li><li><input type="checkbox"/> Set up multiuser approval for critical operations and changes.</li><li><input type="checkbox"/> Understand existing and new backup capabilities that prevent unauthorized access to business data, protecting against both ransomware and insider threats.</li></ul>  | <ul style="list-style-type: none"><li>Multifactor authentication (MFA)</li><li>Monitored modification</li><li>Granular role-based access control (RBAC)</li></ul>  |
| <b>3   See and detect attacks to stop encroachment</b>  | <b>KEY CAPABILITIES:</b>   |
| <ul style="list-style-type: none"><li><input type="checkbox"/> Classify data and identify sensitive information that may be at risk.</li><li><input type="checkbox"/> Provide deep visibility into data and apps to identify software and cyber vulnerabilities.</li><li><input type="checkbox"/> Incorporate AI/ML to detect anomalies that can signify a threat or a ransomware attack.</li><li><input type="checkbox"/> Detect indicators of compromise (IOCs) by threat scanning backup data routinely.</li></ul>   | <ul style="list-style-type: none"><li>AI/ML powered</li><li>Anomaly detection in near-real time</li><li>Automated alerts</li><li>Cyber vulnerability discovery</li></ul>   |

#### 4 | Strengthen security postures with platform extensibility

#### KEY CAPABILITIES:

- Ensure an existing backup or data management solution supports security integrations, especially to SOC solutions, for faster ransomware detection and remediation.
- Improve collaboration by removing silos across people, processes, and the data platform.
- Understand the APIs into leading security products and platforms.
- Establish seamless workflows in backups to extract insights while keeping data safe.

Pre-built integrations  
Customizable integrations  
Value-added applications interoperability

#### 5 | Ensure rapid recovery of data at scale

#### KEY CAPABILITIES:

- Determine whether an existing backup or data management solution can rapidly, cleanly, and predictably recover data at scale.
- Consider country-specific data protection and sovereignty requirements.
- Assess capabilities to support rapid recovery to any point in time and to any location.
- Understand a snapshot's health and recover unstructured data without additional investment.
- Identify how to perform in-place recovery of unstructured data to reduce downtime.

Instant recovery at scale  
Clean recovery  
In-place recovery

Download the complete [Ransomware Readiness Guide](#)