Ransomware Attack Protection



Security Best Practices

Highest Priority: What MSPs should do now

Identify and Access Management

- Conduct an audit of all technology solutions, user accounts, and roles. Repeat this process on a quarterly basis (at least).
 Disable accounts upon employee technology offboarding, or update permissions and access upon role change.
 Disable inactive or underutilized employee accounts if they are unused or inactive for long periods of time.
 Use a password manager to create strong, unique passwords per technology solution and enable multi-factor authentication (MFA) on the password manager. Do not allow storage of credentials in a web browser.
- Use different keys for different integrations, rotating them periodically.
 Use IP restrictions where possible.
 - ☐ Store keys securely.

Protect any API keys in use.

 Enable MFA on all accounts that are allowed to via API keys anywhere they are configured for use.

Network Access

- Restrict RDP access to LAN only do not configure internet access to RDP.
- Use a VPN to restrict access to admin tools (RMM, Remote Access, etc.) Use MFA on the VPN.



Patching Your Channel Technology

- ☐ Update all endpoints and technology software to versions that are free of known material vulnerabilities.
- Review vendor practices for discovery, patching, and notification of vulnerabilities.



Protection of Local and Cloud Backups

- Act on your vendors' recommended guidance or best practices for the protection of your backup technology
- Move away from shared login accounts on appliances and technology portals.
- \Box Enable MFA on access to technology portals and appliances.
- Store copies of backups offsite, or in an isolated network or file share location that is inaccessible from servers or workstations, thus making backups harder to access, encrypt, or destroy.
- Monitor and alert for backup deletion. Some vendors offer "soft" delete so backups are not immediately removed.
 Understand your vendors' capabilities.
- Test your backups. Determine how long it takes to do a restore, and set accurate expectations should the need arise.





Lower Priority: Items to consider when expanding security best practices

Identify and Access Management

	Monitor accounts for exposed credentials using free or commercial tools.
	Conduct phishing simulations and training campaigns for both MSP staff and clients
	Consider device trust or network IP whitelists for accessing technology portals and appliances.
	Avoid shared accounts. MFA is designed for a single user. As a result, it is difficult to manage shared accounts.
	Make sure techs follow your policies on storage and MFA for these tools!
Network Access	
	MSPs whose clients are an extension of the MSP's network should reconsider this design choice as one customer or MSP compromised = game over for all clients.
	Vendors that have site-to-site VPNs (L2Ls) into an MSP network to augment staff or technology should have their network security vetted and access controls on L2Ls should be tightly limited.
	Consider the time of day restrictions for access to RA VPN endpoints.

Leverage Your Relationships to Gain Intelligence on Current Threat **Environment** Talk to your vendors about what they are seeing and what their road map is to address shifts in the cyber landscape. Partner with vendors and other MSPs to collaborate on how to best configure your technology to mitigate cyber threat risks. Join a peer group, and start discussions with other MSPs to learn about their best practices. If you've been attacked and your business has survived, share your knowledge. **Cybersecurity Insurance** Invest in cybersecurity insurance, but do not make the fact you have it public knowledge. ☐ Extortion coverage should cover your business into the low to mid-six figures. ☐ Verify that there are no wartime exclusions with your carrier. ☐ Verify that the insurance carrier will pay for a preferred incident response and forensics provider, or become comfortable with and accept the one the carrier offers. Understand prior acts, exclusions, and timelines for each of these policy areas.

Run an MSP ransomware attach tabletop scenario with the broker and carrier

to understand the limits of coverage based on a real-world scenario.

