



- Either side may start the game. Play is then determined by the winner of prior rounds.
- The starting player has up to three throws but can stop after one or two if preferred. *The second player is then limited to that number of throws.*
- All dice are thrown on the first throw. Players can then choose which to keep or throw again, continuing until they decide to stop or reach the maximum throws.
- To win, players need to throw *more* defence dice than the corresponding attack (or vice versa) – e.g. if 2 *Malware* dice are thrown then defenders need 3+ of other relevant dice to defend.
- If a *matching* number of attack/defence dice are thrown (e.g. 3 *Malware* and 3 *Backup*), then the round is a draw (no point scored).

Attacker Dice

- Hackers**
 Attackers gaining (or attempting to gain) unauthorized access to systems and data, often via exploiting technical vulnerabilities.
- Malware**
 Malicious software that may corrupt or steal data, damage systems, and varyingly compromise confidentiality, integrity and availability. Includes ransomware, spyware and viruses.
- Accidental Breach**
 Breaches caused by errors, mistakes and other unintentional actions by legitimate users.
- Phishing**
 Use of social engineering techniques to trick unsuspecting users into sharing sensitive information or access credentials.
- Denial of Service Attack**
 An attack against availability, preventing systems and data from being accessible by authorised users.
- Zero Day Attack**
 Exploitation of a previously unknown vulnerability. Bypasses all but *Holistic Security*

Defender Dice

- System and App Updates**
 Ensuring that your systems are patched against known security vulnerabilities.
Combats: *Hackers and Malware*
- Staff Awareness and Training**
 Ensuring that users know what to do to identify threats, maintain security, and prevent mistakes.
Combats: *Accidents, Malware and Phishing*
- Backup**
 Ensuring a safe copy of your system and data files.
Combats: *Accidents, Malware and Hackers*
- Secure Configuration**
 Ensuring that your protection is set up correctly.
Combats: *Accidents, Malware, Hackers and Phishing*
- Internet Security**
 Ensuring that users know what to do to identify threats, maintain security, and prevent mistakes.
Combats: *DoS, Malware, Hackers and Phishing*
- Holistic Cybersecurity**
 Attention to security across multiple perspectives, enabling holistic protection and defence-in-depth.
Combats: *All threats, including Zero Day Attacks*

Does it defend against the attack?

						
A		✓	✓	✓	✓	✓
T		✓	✗	✓	✓	✓
T		✗	✓	✓	✗	✓
A		✗	✓	✗	✓	✓
C		✗	✗	✗	✓	✓
K		✗	✗	✗	✗	✓
S		<p><i>Zero Day Attacks</i> can be defeated by throwing a full set of individual controls (i.e. <i>Backup, Configuration, Updates, Internet Security, and Staff Awareness</i>)</p>				
		<p><i>Holistic Cyber Security</i> can be attacked by a throwing a full set of non-Zero Day attacks (i.e. <i>Malware, Hackers, Phishing, Accidental Breach, and DoS</i>)</p>				