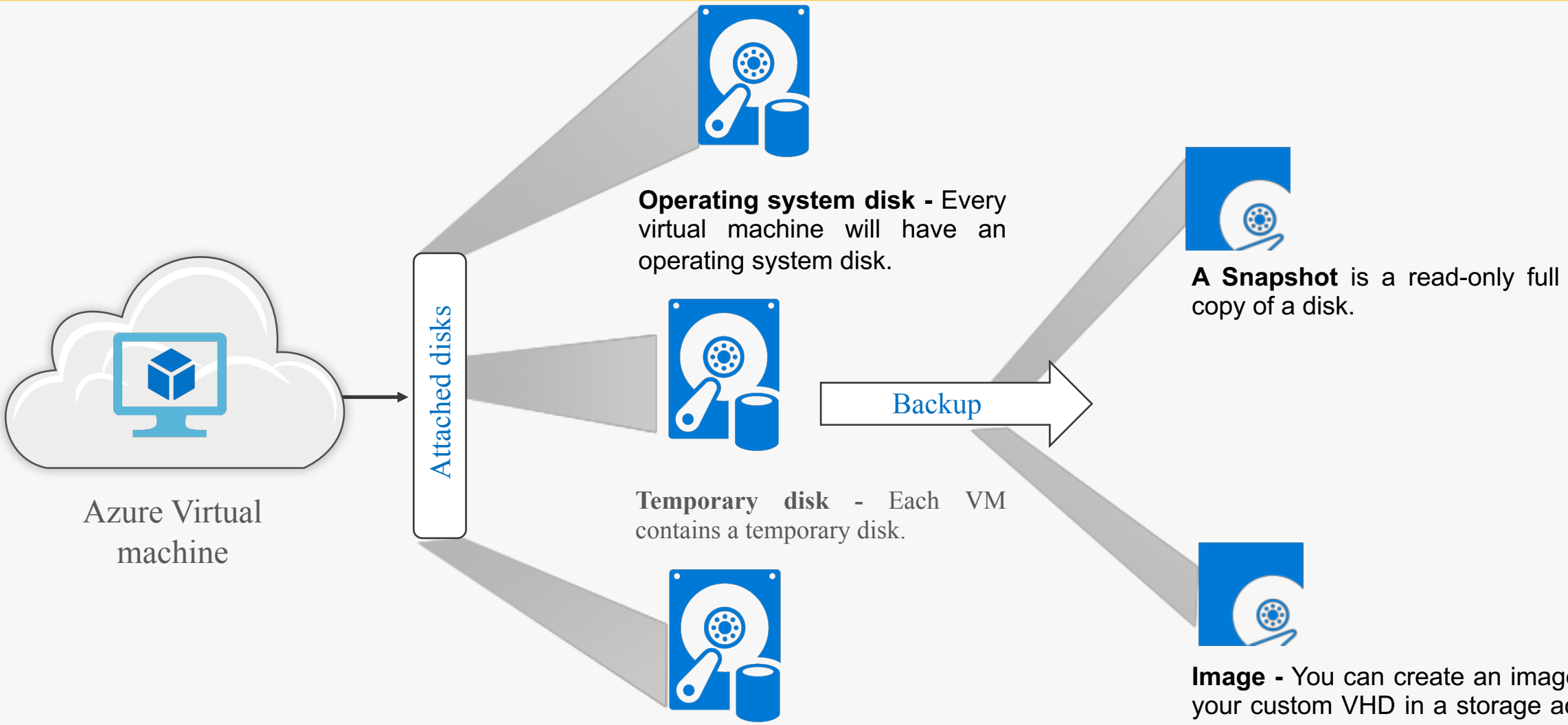
Virtual machine storage encryption overview

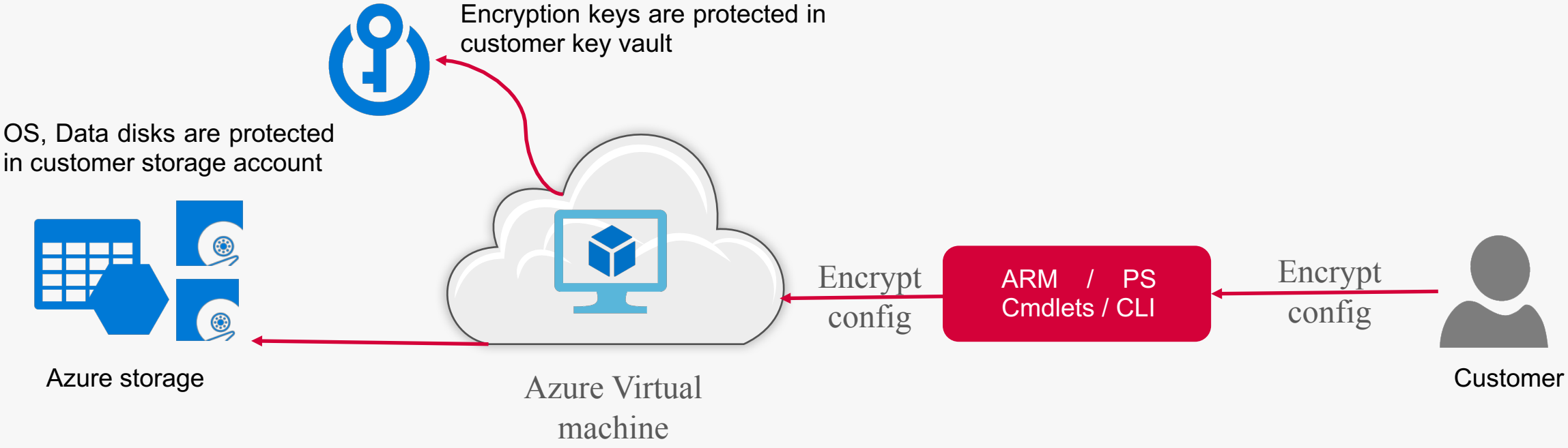
VM Storage overview



Azure Storage encryption

Azure Storage automatically encrypts your data when persisting it to the cloud. Encryption protects your data and to help you to meet your organizational security and compliance commitments. Data in Azure Storage is encrypted and decrypted transparently using 256-bit AES encryption, one of the strongest block ciphers available, and is FIPS 140-2 compliant

Key management - You can rely on Microsoft-managed keys for the encryption of your storage account, or you can manage encryption with your own keys, together with Azure Key Vault.

Disk encryption

- Azure Disk Encryption allows you to encrypt the OS and Data disks used by an IaaS Virtual Machine
- For Windows, the drives are encrypted using industry-standard BitLocker encryption technology
- For Linux, the disks are encrypted using the DM-Crypt technology