

Becrypt Thin Client

Assured security
for Thin Client
environments

The importance of deploying strong protection for Thin Client devices is increasing with the growing use of web-based services to expose and manage critical business systems.

Becrypt OS is a security-focused operating system and management platform that provides un-rivalled security and management of Thin Clients. Unlike other solutions, Becrypt OS can guarantee complete endpoint health.

We work with government and private sector organisations, helping them protect high-value services, while maintaining the cost and usability benefits of virtualisation, web or cloud-based environments.

#becrypt



Attitudes to Thin Client security are often influenced by legacy IT. Today's emerging threats, and the shift to cloud and virtualisation can introduce unmanaged risks.

A customer project - HMG Cloud Client™

Becrypt worked with the National Cyber Security Centre (NCSC) on the Cloud Client project that seeks to develop standards to promote the safe use of end user devices. Key elements included a measured software execution process with a hardware root of trust to deliver strong end to end device health measurements,

Becrypt OS was developed from Cloud Client standards, and is used every day by multiple UK Government departments to access and share sensitive information.

Health measurements guarantee devices are free of compromise

The challenge

There is a common misconception that Thin Clients are by default adequately secure. This is often because they are used to access a Virtual Desktop solution, or Web services that provide access to centralised data. It is not uncommon for Thin Client endpoint security to be ignored, with devices seldom updated, patched or protected. While the more security conscious organisations will deploy common Thin Client management solutions that may claim a level of security functionality, in practice these fall well short of the protection and detection tools used for the wider enterprise.

If a Thin Client device is compromised through a direct exploit, or lateral movement, this can remain undetected, sometimes permanently. Where organisations use Thin Clients for critical or high-value services, such as accessing management or security platforms, this can present an unacceptable risk.

Becrypt OS – Assured Thin Client Security

Becrypt OS is a security-focused operating system designed in collaboration with UK government to address stringent security requirements. Through a combination of secure boot, cryptographic checks of authorised applications and remote attestation, organisations are assured that devices running the Becrypt OS operating system are in a known healthy state, free of malware, every time a device is started.

Key benefits of the Becrypt OS operating system include:

- Measured software execution provides complete confidence in device health
- Automated deployment and patch management reduces cost of ownership
- Automated roll-back and recovery from attempted compromise reduces system and user down-time.
- Modern browser-based design, rapid boot and single sign-on enhances usability
- Simplifies legacy hardware upgrades, as well as new Thin Client deployment
- Designed and accredited in collaboration with UK Government provides third party assurance
- Supports VMware, Citrix, Amazon Workspaces and RDP



Secure Thin Client architecture

Becrypt OS - secure by design

The security focused operating system incorporates a 'secure by design' architecture, ensuring devices remain in a known good healthy state, free of malware.

Key features of Becrypt OS include:

- Unique trusted boot and measured software execution ensures cryptographic validation of firmware, operating system and all application components
- Standards-based remote attestation protocol allows server validation of device identity and health
- A light-weight and read-only operating system ensures Becrypt OS is not susceptible to common exploits
- Sandboxed user account for privilege escalation prevention and detection
- On premise or cloud hosted management infrastructure for rapid, automated and transparent patch management
- Architecture ensures high-value, low-volume audit events with SIEM integration
- Supports diverse hardware platforms including: desktops, laptops, thin clients, portable thumb drives

An incredibly cost effective approach

The accredited security architecture removes the need for third party software such as anti-virus, IDS and personal firewalls, thereby reducing costs as well as complexity and simplifying automated patch management.

Additionally Becrypt OS Management Service offering provides an optional cloud hosted end to end 'device as a service' platform that organisations can utilise.



Why #becrypt

With a heritage of creating National Cyber Security Centre certified products, Becrypt is a trusted provider of endpoint cybersecurity software solutions. Becrypt helps the most security conscious organisations to protect their customer, employee and intellectual property data. It has an established client base which includes governments (central and defence), wider public sector, critical national infrastructure organisations and SMEs.

As one of the early pioneers in disk encryption software to today being first to market with a unique desktop operating system, Becrypt continues to bring innovation to endpoint cyber security technology. A recognised cyber security supplier to the UK government, Becrypt's software also meets other internationally accredited security standards. Through its extensive domain and technical expertise, Becrypt helps organisations optimise the use of new cyber security technologies and its flagship security solution Becrypt OS delivers a highly secure platform for the modern age.

Get in Touch

If you would like to find out more about **Becrypt OS** please contact us on

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Becrypt Secure Endpoint Services

Talk to the Becrypt Team about our service option for Becrypt OS customers, desktop-as-a-service. With the Becrypt OS management platform pre-built and hosted within a secure cloud environment, organisations can rapidly deploy secure endpoints outsourcing patch management and security monitoring to reduce internal IT resource requirements, and leverage scale for ongoing cost reduction.



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