BCAT Current Support Arrangements and Solution

**Current ICT Provision & Service Overview**

BCAT has an ICT service which is hosted at Bedford College. This service is provisioned via a WAN extension which runs from the secondary school to the college via WAN fibre. There is a physical fibre connection from the secondary school to the primary school.

BCAT has recently appointed a broadband supplier to install 2 internet connections – a 1GB/1GB fibre for the secondary and a 300MB fibre for the primary to be installed for January 2023 in readiness for the migration from the college.

There are a few limited servers onsite at the secondary academy, but they are limited to local caching and station building and are not suitable for reuse. There are no documents which detail the current provisions hosted by the college, but the following information was provided as part of the Q&A process ready for migration.

Essentially the service provided is a hosted environment for the virtual servers listed below, along with the provision of a dual-redundant Smoothwall facility with connection to the internet via JANET.

Support is currently provided for the two academies by a third-party provider on an interim basis, and this support is broadly onsite support along with a helpdesk facility. Support was originally provided directly from the college, but this provision was stopped in late 2021 as the first stage of a migration away from the college ICT infrastructure and support.

The trust wishes to move all remaining services away from the college to either a local or hosted/cloud solution which is fully independent of the college. Similarly, the trust now wishes to retender for the managed service provision and start a fully specified and documented service provision to support this new migrated solution moving forward.

**Questions & Answers from Bedford College ICT Team**

1. Hypervisor and version (include details of agreement lengths - more specific to VEEAM and VMware).

BCAT do not have their own hypervisor, the VMs are currently hosted on TBCG’s VMWare (vSphere 6.5). BCAT will need to purchase a hypervisor to host their VMs.

1. Backup software and version.

BCAT do not have their own solution currently, their VMs are backed up using TBCG’s VEEAM (version 10) solution. BCAT will need to purchase a backup solution.  All servers have a daily incremental backup and a weekly full backup.  Currently VMs are backed up to disc and then stored for 3 months on tape.

1. How long is left on any licenses i.e. are they annual\3-year agreements.

Microsoft licence was a multi-year contract with TBCG, this expires on 30 November 2022.

TBCG’s Impero licence is until 19 October 2022, BCAT will need to check that they are not using this licence as part of their Impero solution.

1. Leased line contract details and termination clauses.

The leased line between Wixams and TBCG is provided by Daisy, and we believe is subject to a 90-day cancellation. We will arrange the cancellation of this line once BCAT confirm a new leased line has been installed.

1. Does the school have their own Smoothwall licensing or is this rented from the college?

TBCG provide the Smoothwall servers through the TBCG licence. BCAT will need to source their own Smoothwall license or alternative.

1. Are there any high availability servers, clusters in place?

No. Although, the BCAT VMs are hosted on TBCGs hypervisor which provides high availability.

1. Are the servers managed via SCCM?

No, BCAT does not have an SCCM server.

1. Any details around bespoke security or encryption?

No.

1. Who currently manages the schools Microsoft licensing?

Microsoft licencing has been undertaken by TBCG, but we are coming to the end of a three-year contract (end of November) and so BCAT should be looking to source their own licence this year onwards.

1. What are the storage requirements for BCAT?

Currently Wixams Academy have just over 3.5TB space provisioned, Wixams Tree Primary have 1.8TB space provisioned. In total 5.3TB space will be required as a minimum for the current virtual machines.

**Wixams Academy Virtual Servers**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **State** | **Status** | **Provisioned Space (GB)** | **Used Space (GB)** | **Guest OS** | **Memory Size (GB)** |
| WAC-ADCS001 | Powered Off | Normal | 42.18 | 15.97 | Microsoft Windows Server 2016 or later (64-bit) | 2 |
| WAC-RDSL001 | Powered On | Normal | 42.11 | 30.38 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-IMPE001 | Powered On | Normal | 108.11 | 34.22 | Microsoft Windows Server 2016 or later (64-bit) | 8 |
| WAC-ADDC002 | Powered On | Normal | 42.11 | 35.8 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-ADDC001 | Powered On | Normal | 42.17 | 36.08 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-ADCS101 | Powered On | Normal | 62.13 | 36.68 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-PRNT001 | Powered On | Normal | 42.14 | 37.29 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-DOOR001 | Powered On | Normal | 64.12 | 40.02 | Microsoft Windows Server 2012 (64-bit) | 4 |
| WAC-AADC001 | Powered On | Normal | 42.12 | 42.01 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-RADI001 | Powered On | Normal | 44.14 | 43.5 | Microsoft Windows Server 2012 (64-bit) | 4 |
| WAC-FILE301 | Powered On | Normal | 102.12 | 50.11 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-RASS001 | Powered On | Normal | 82.14 | 76.71 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-RDSH001 | Powered On | Normal | 98.11 | 97.37 | Microsoft Windows Server 2012 (64-bit) | 8 |
| WAC-SIMS001 | Powered On | Normal | 156.11 | 135.44 | Microsoft Windows Server 2012 (64-bit) | 16 |
| WAC-FILE401 | Powered On | Normal | 542.11 | 219.62 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-SUTM001 | Powered On | Normal | 256.13 | 255.54 | Other 2.6.x Linux (64-bit) | 6 |
| WAC-WSUS001 | Powered On | Normal | 294.15 | 292.06 | Microsoft Windows Server 2012 (64-bit) | 4 |
| WAC-FILE201 | Powered On | Normal | 342.13 | 296.01 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WAC-FILE101 | Powered On | Normal | 1110 | 1,018.76 | Microsoft Windows Server 2012 (64-bit) | 2 |
|  |  |  | **3514.33** | **2793.57** |  | **74** |

**Wixams Tree Primary Virtual Servers**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **State** | **Status** | **Provisioned Space (GB)** | **Used Space (GB)**  | **Guest OS** | **Memory Size (GB)** |
| WTP-RDSL001 | Powered On | Normal | 62.11 | 28.42 | Microsoft Windows Server 2016 or later (64-bit) | 2 |
| WTP-RADI001 | Powered On | Normal | 42.12 | 35.19 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-RDSH001 | Powered On | Normal | 62.11 | 35.61 | Microsoft Windows Server 2016 or later (64-bit) | 2 |
| WTP-DOOR001 | Powered On | Normal | 64.12 | 35.84 | Microsoft Windows Server 2012 (64-bit) | 4 |
| WTP-ADDC002 | Powered On | Normal | 42.12 | 38.12 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-PRNT001 | Powered On | Normal | 42.12 | 38.27 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-AADC001 | Powered On | Normal | 42.12 | 40.18 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-ADDC001 | Powered On | Normal | 42.11 | 40.87 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-FILE401 | Powered On | Normal | 82.12 | 42.33 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-FILE301 | Powered On | Normal | 82.13 | 44.07 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-RASS001 | Powered On | Normal | 82.15 | 78.36 | Microsoft Windows Server 2016 or later (64-bit) | 2 |
| WTP-FILE201 | Powered On | Normal | 122.11 | 113.92 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-FILE101 | Powered On | Normal | 192.12 | 172.34 | Microsoft Windows Server 2012 (64-bit) | 2 |
| WTP-SUTM001 | Powered On | Normal | 256.13 | 189.39 | Other 2.6.x Linux (64-bit) | 6 |
| WTP-SIMS001 | Powered On | Normal | 236.11 | 204.17 | Microsoft Windows Server 2012 (64-bit) | 16 |
| WTP-WSUS001 | Powered On | Normal | 294.14 | 209.93 | Microsoft Windows Server 2012 (64-bit) | 4 |
|  |  |  | **1745.94** | **1347.01** |  | **54** |