

The Queen's College IT Open Morning

Goals

Get a overview of
some of the tools we
use

- Installations
- Operations

Find out where to go
to get more
information

- Lynda.com
- myworldofit.net
- Other resources

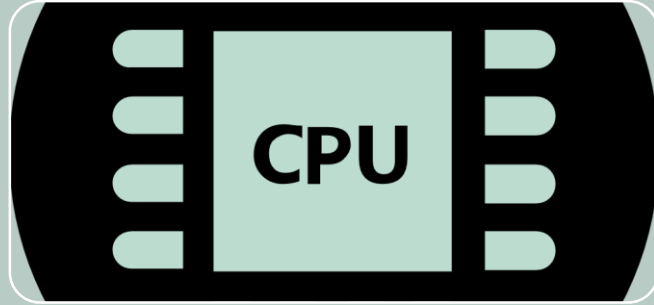
The Plan

Start time	
0910	Welcome, Microsoft Deployment Toolkit
0940	PowerShell
1010	PRTG Network Monitor
1030	Break for Tea/Coffee
1100	OpenVAS
1130	Windows Server Update Services + Chocolatey
1200	Microsoft Network Policy Server + VLANs/ACLs
1230	End

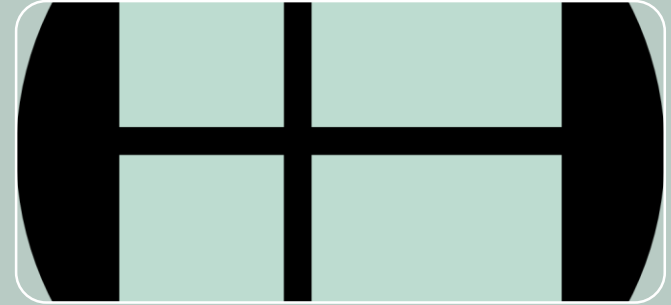
The IT Office



3 Full Time
Staff

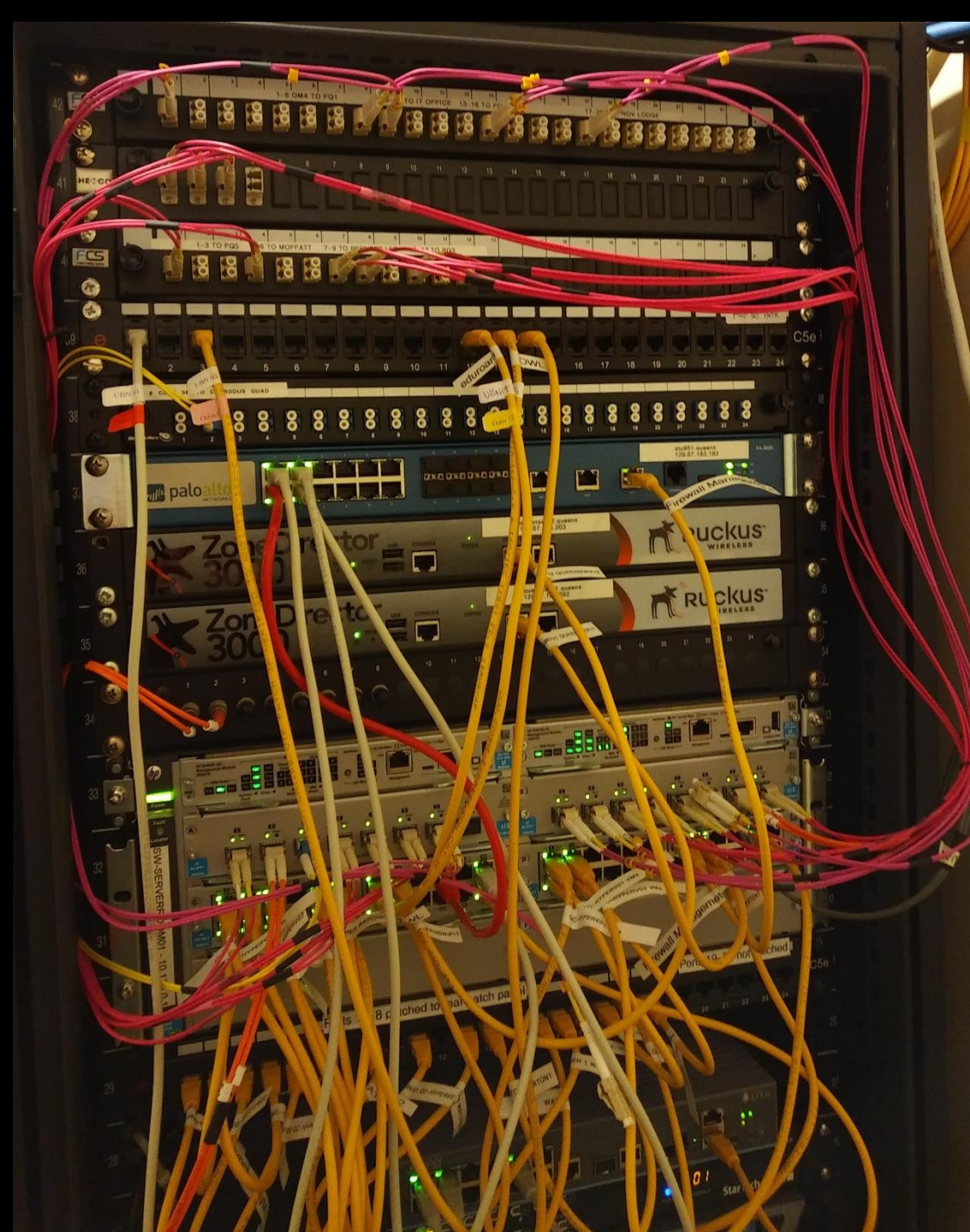


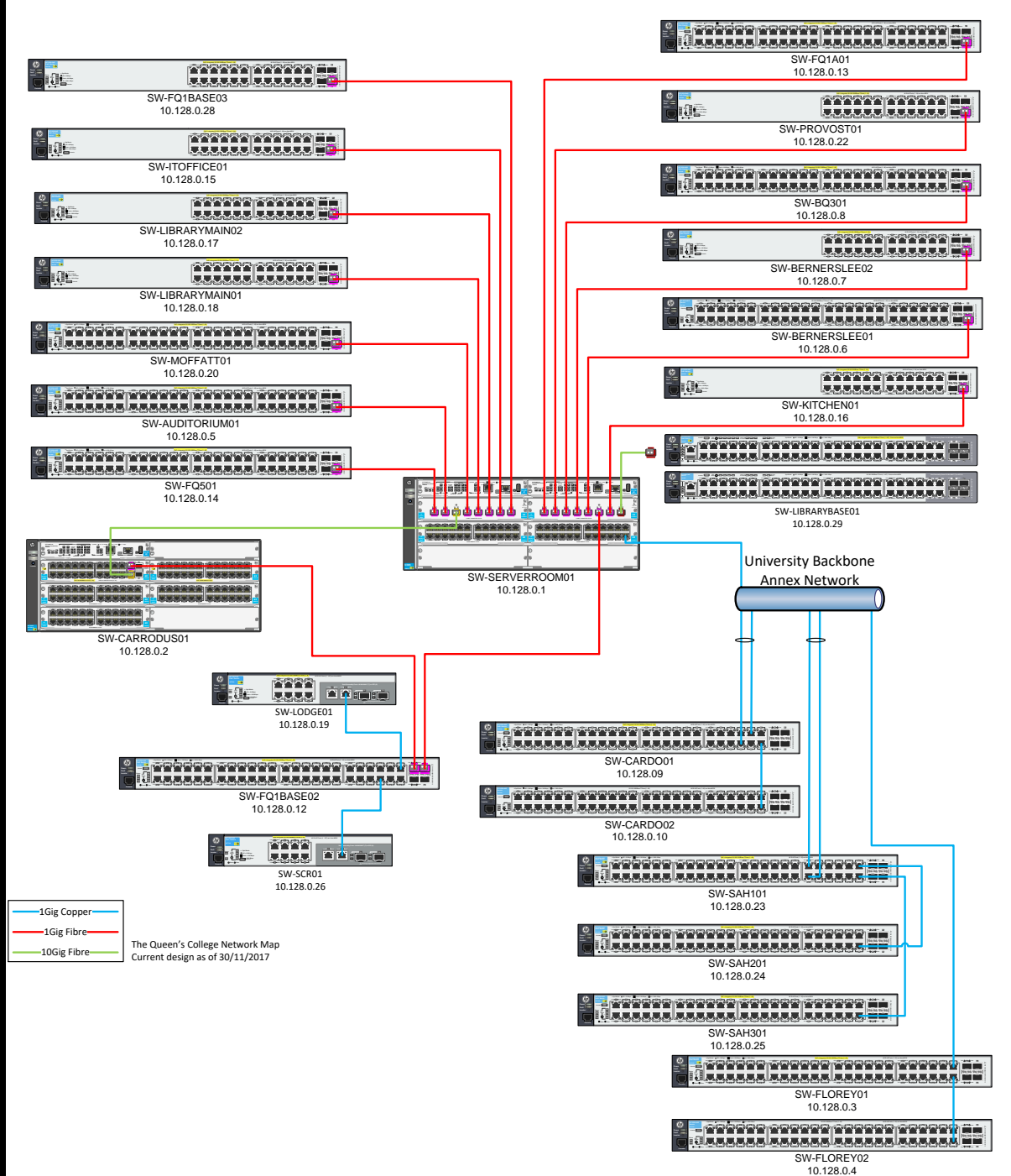
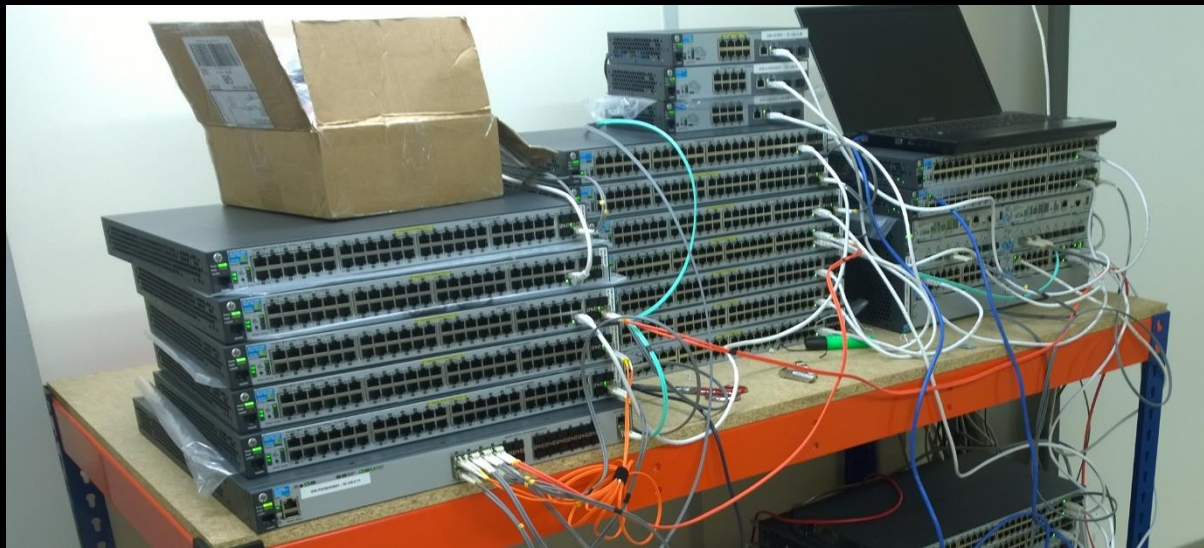
3 Hyper-V
Hosts

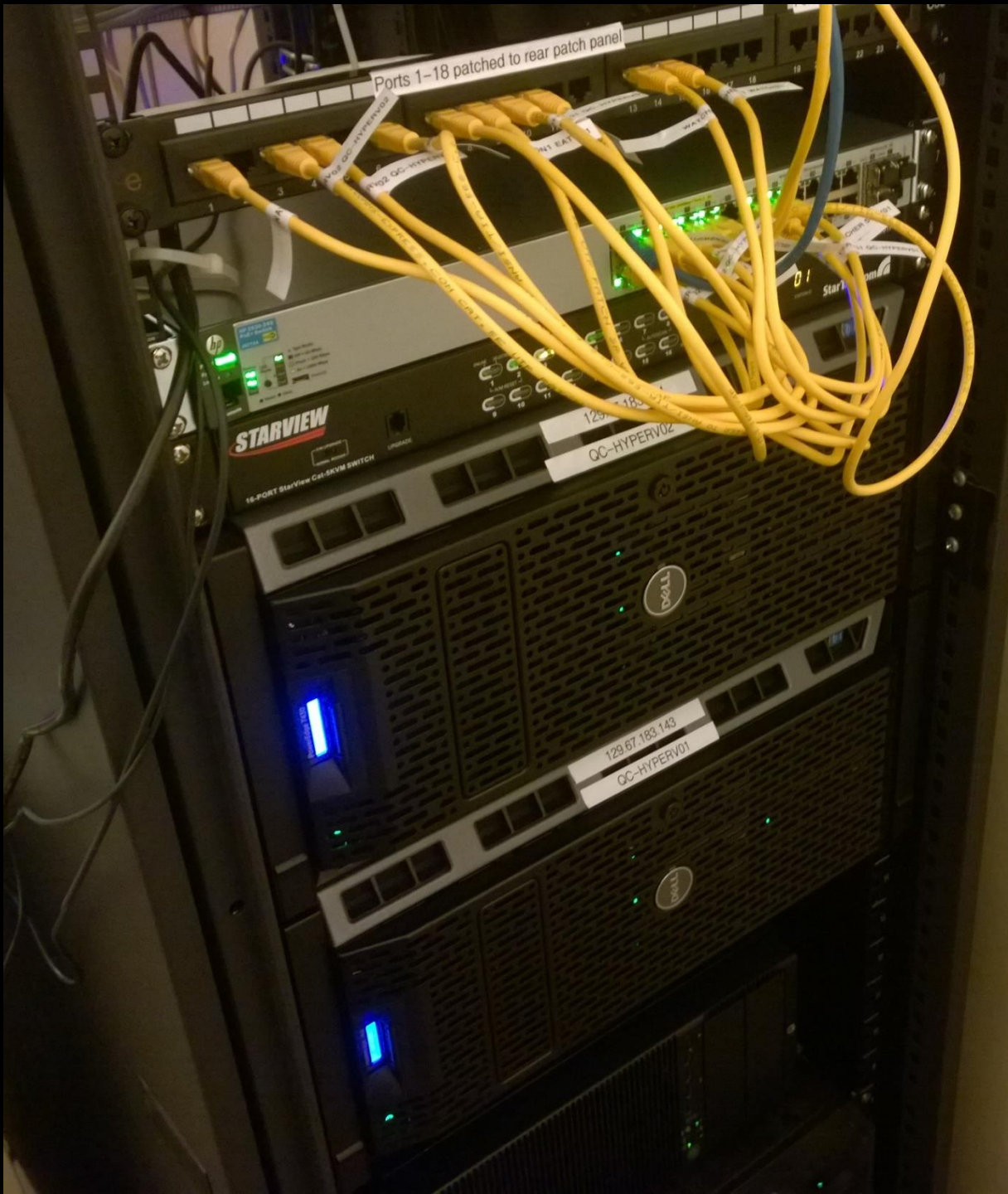


Largely
Microsoft
for Services

PaloAlto Firewall
Ruckus Wireless ZD3000 + 7363
HPE 5400R z12 Core Switch +
2530s and 2920s at the edge
Juniper DMZ switch (for now)





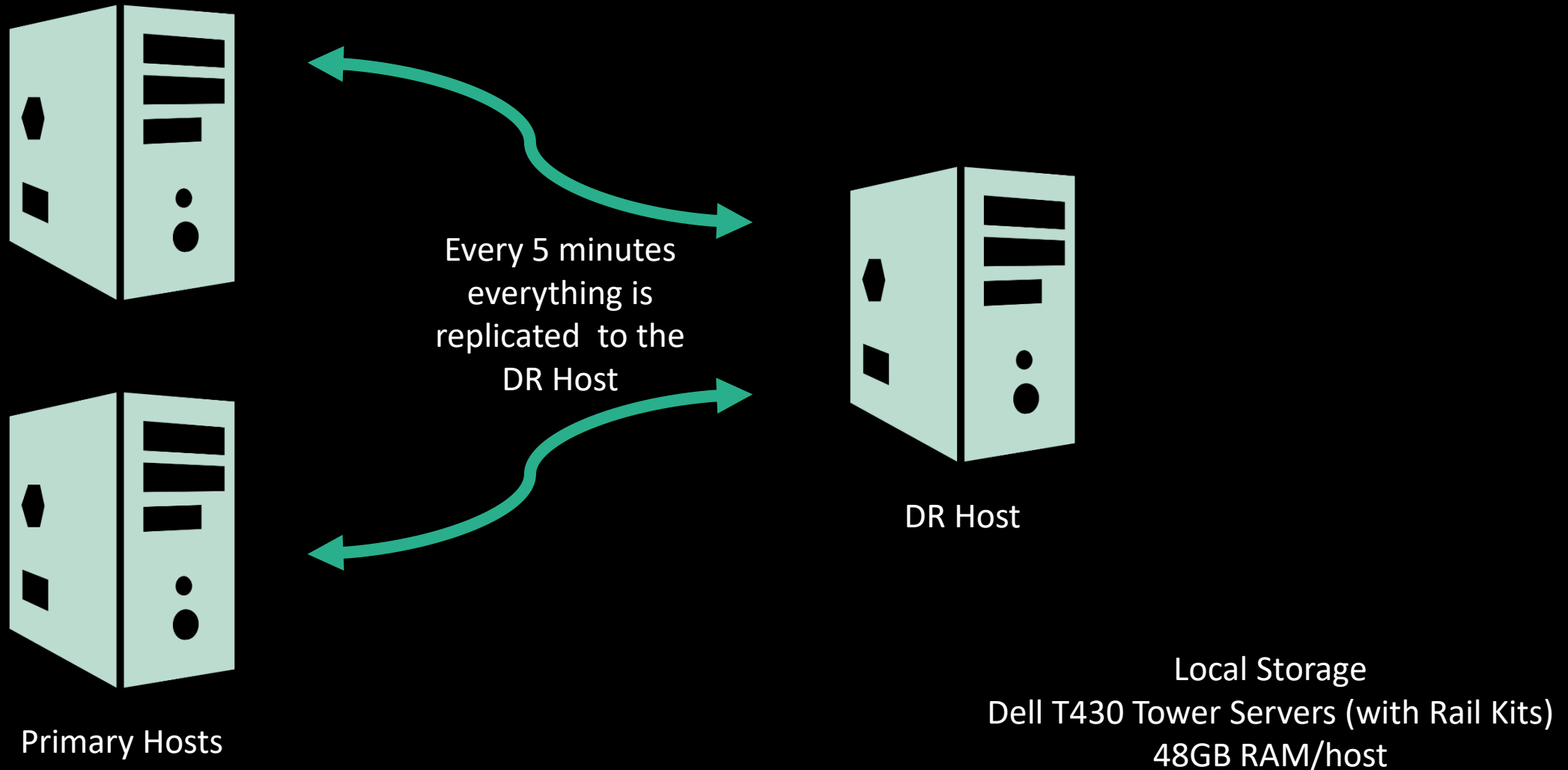


2x Dell T430s in Server Room
1x Dell T430 in DR Room

Hyper-V Server

- Free for the whole feature set
 - Unlimited VMs
 - Supports Windows and Linux/FreeBSD
 - 5 Minute Replication
 - Discrete device assignment (DDA)
 - Secure Boot
 - Clustering
 - Live Migration
- <https://docs.microsoft.com/en-gb/windows-server/virtualization/hyper-v/hyper-v-technology-overview>
- <https://www.microsoft.com/en-us/evalcenter/evaluate-hyper-v-server-2016>









Our implementation of Hyper-V



Server 2008 R2 to Server 2016

- Moved from Select Agreement (Perpetual) to Microsoft Enrolment For Education Solutions
- Price fixed for 3 years
- Super low cost – Select Agreement would need to run for at least 7 years to be as cost effective
- Contact oxforduni@bytes.co.uk to arrange

The King's College, Oxford

Virtual Machines					
Name	State	CPU Usage	Assigned Memory	Uptime	Status
 KC-ClientPC	Running	0%	4096 MB	05:13:54	
 KC-ClientPCFast	Running	0%	4096 MB	01:17:52	
 KC-DC01	Running	1%	2048 MB	5.00:40:08	
 KC-Firewall	Running	0%	2048 MB	5.01:16:20	
 KC-MDT01	Running	1%	2048 MB	5.00:37:12	
 KC-PEN01	Running	93%	4096 MB	03:20:59	
 KC-PRTG01	Running	0%	4096 MB	04:09:08	
 KC-WSUS01	Running	1%	4096 MB	20:18:38	