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Building desktops in the clouds: Virtualising the Investment Studio

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Mohammed Ali, Salihin. Building desktops in the clouds: Virtualising the Investment Studio. (2022). *LAS-NLB Professional Sharing Session*. 1-19. **Available at:** https://ink.library.smu.edu.sg/library_research/202

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Building Desktops in the Clouds: Virtualising the Investment Studio

LAS-NLB Professional Sharing Session

30 Sep 2022



Singapore Management University

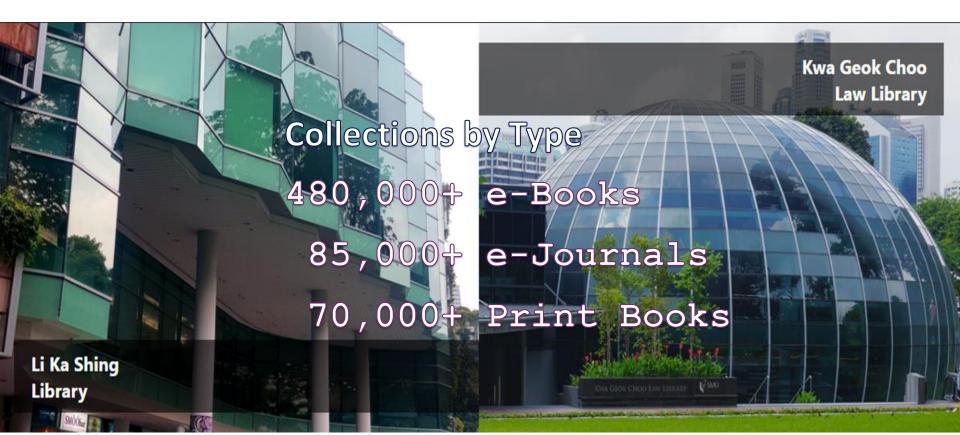
Established in 2000, SMU's mission is to generate **leading-edge research with global impact** and to produce **broad-based**, **creative**, **and entrepreneurial leaders** for the knowledge-based economy.

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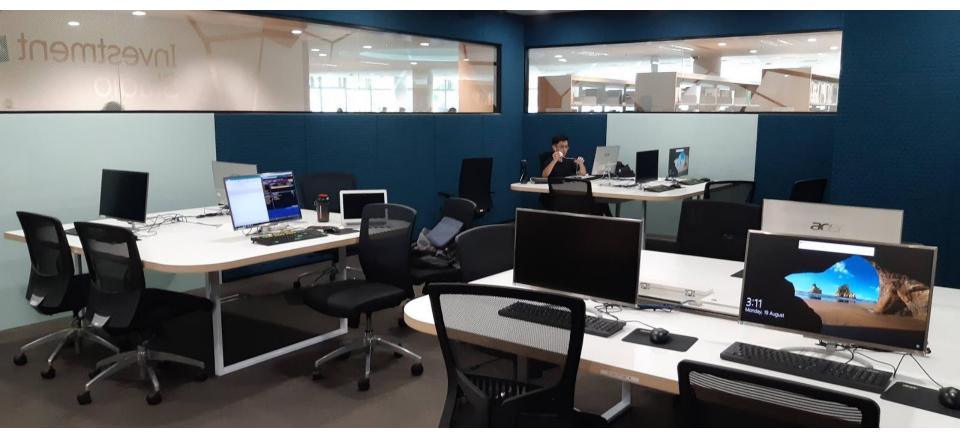


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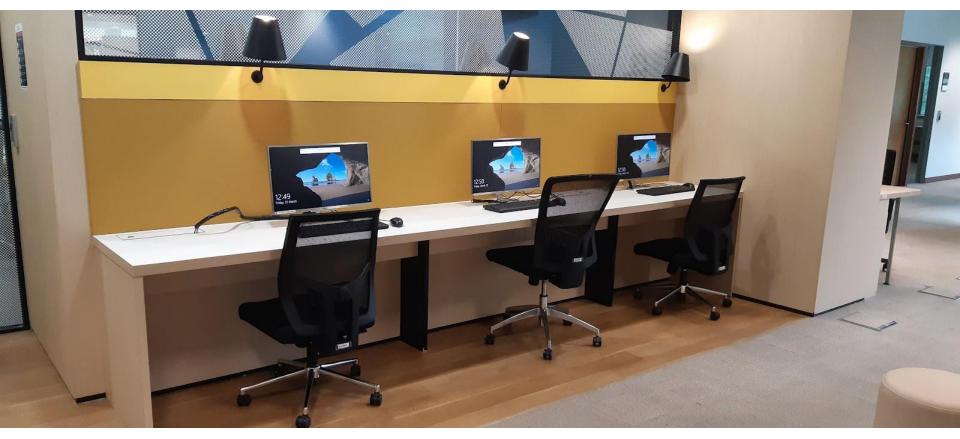


Investment Studio @ Li Ka Shing Library



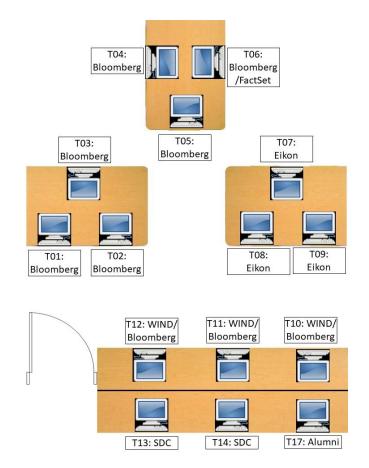


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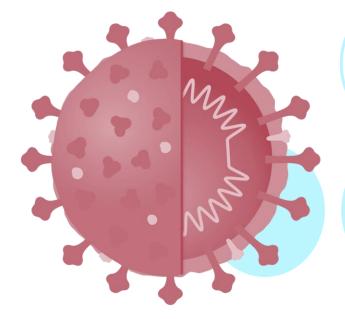




Investment Studio @ Li Ka Shing Library



- 15 Physical AIO Computer Terminals
- Financial Databases include:
 - Bloomberg
 - Eikon
 - FactSet
 - SDC Platinum
 - WIND



Then along came... ... COVID19



Virtualising the Investment Studio...

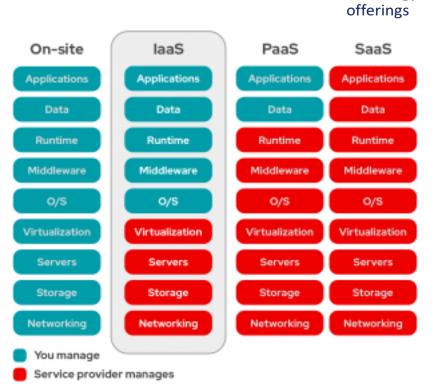




Collaborating with campus IT folks...

- Cloud computing technology
- Desktop virtualisation
- Technical support
- IT Security

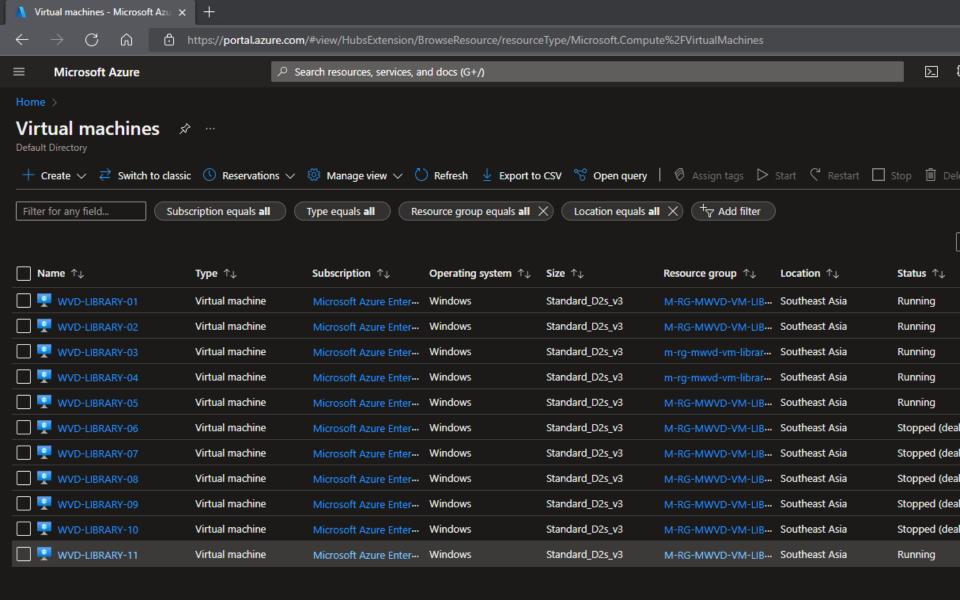




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Technology

https://www.redhat.com/en/topics/cloud-computing/public-cloud-vs-private-cloud-and-hybrid-cloud 9



🔥 Create a virtual machine - Micros 🗙 🛛 🕂

C 🕥 🖞 https://portal.azure.com/#create/Microsoft.VirtualMachine

Microsoft Azure

Home > Virtual machines >

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

 Subscription * •
 •
 Microsoft Azure Enterprise
 ~

 Resource group * •
 •
 (New) Resource group
 ~

 Instance details
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 •
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 Virtual machine name * •
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 Region * •
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 Availability options •
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 Availability zone * •
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Negotiating with database vendors...

- Technically possible to run all the software on Microsoft Azure Virtual Desktop
- But after negotiations,



Bloomberg





FactSet



SDC Platinum





Confirms users are who they say they are.



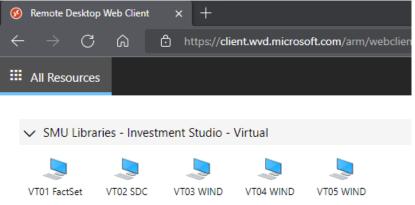
Vendor agreements





User testing with students and faculty...

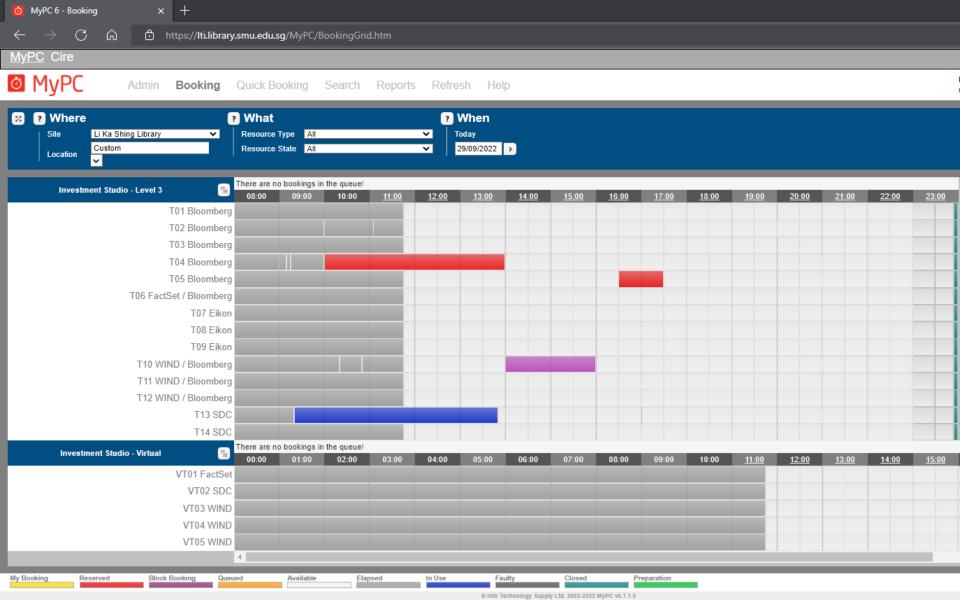
- Trialed with faculty and students
 - Excel plugins
 - Cut-and-paste
 - Desktop sizing
- Ensure equitable access
 - Access 24/7
 - Managed by existing PC booking system

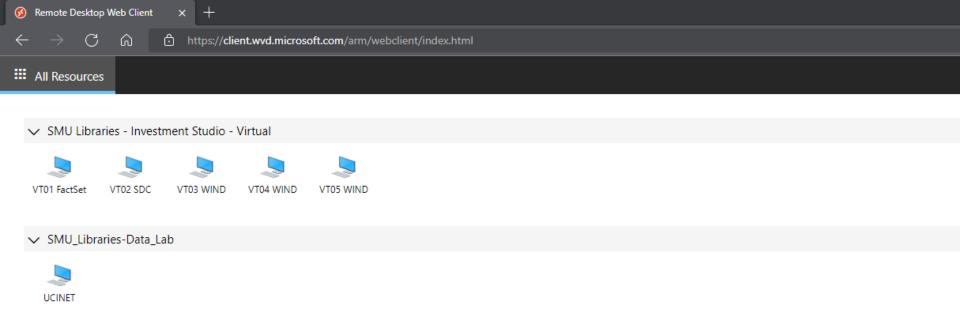


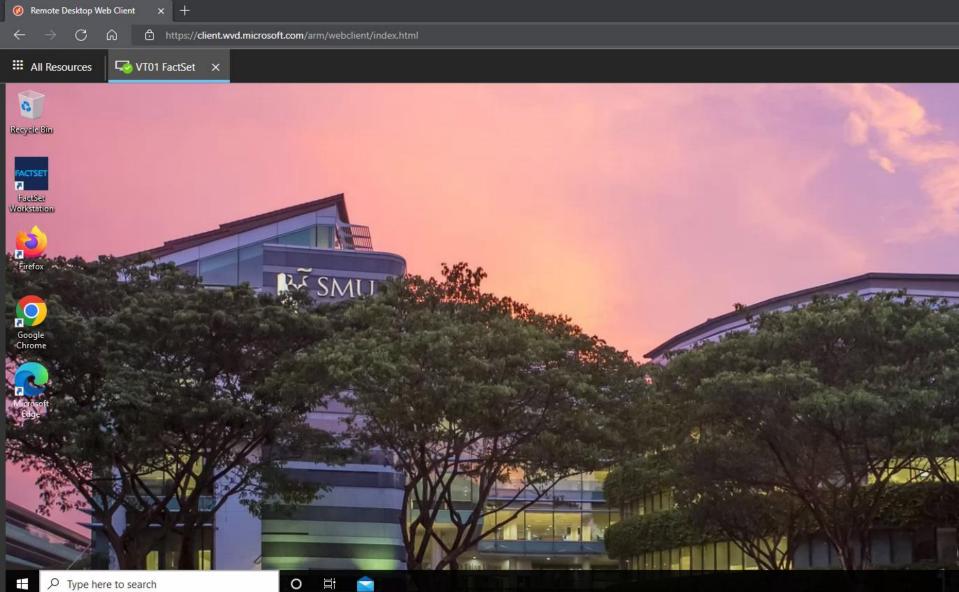


Service

delivery







😵 Remote Desktop Web Client 🗙 🕂						
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III Resources 🔽 VT01 FactSet 🗙						
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◀ Today's Top News ▾ │ × Private Markets 📀						
VIEW BY: Region Sector Asia 🗸						
) Markets						
⊘ Asia Market Synopsis	sa	O Asia Top Stories	sa	Portfolio News		
Asian equities rebounding Thursday: Nikkei +0.94%, Hang Seng +1.93%, Shanghai Comp +0.88%		South Korea monetary authorities buy back \$3.5B in bonds, may ban equity short selling:		Signals	Positive	
 Asian equities advancing Thursday. Regional benchmarks logging gains of 1-2% with Hong Kong, Australia and Korean markets outperforming. US futures steady after S&P 500 snapped a run of six losses overnight. Asian bonds rallying with JGB, Aussie and New Zealand yields down sharply. Treasury rates turning higher with curve bear flattening. Commodities advancing alongside equities with WTI crude erasing earlier losses and base metals inching higher. Dollar reversing higher against other currencies, strongest against sterling. Market rebound attributed to ROE Glit buying operation which everted 10:22:19 AM +08 on 29 Sep '22 		 Seoul moved to support its ailing won and bolster its stock market late Wednesday, pledging to buy back government bonds worth KRW5T (\$3.5B) this week to curb local yields rising to match US Treasuries (MaeilBusiness). BOK is to buy KRW3T of 3Y, FY and 10Y maturities while Ministry of Finance will return payments on KRW2T ahead of maturity. Earlier this week, 3Y government bond yield reached near-record high 4.548% with yields in other maturities also rising sharply. Moves seen as indicative of won support which reached fresh 14-year low against dollar Wednesday, equity market also sharply lower on read across. In second move, MaeilBusiness reported Financial Services Commission is moving to reactivate stock stabilization fund last used during early days of pandemic selloff, and may ban short selling used by institutions and overseas investors. 		At this time, FactSet only supports Signals Additional portfolio types will be		
😔 Economic Calendar		seeing used by instructions and overseas investors.				
	Prior	PBOC issues stern warning to yuan speculators:				
BoE Mortgage Approvals 29 Sep, 16:30 AUG 6: SA (Number)	3.8K	Bloomberg reported PBOC issued a strongly-worded statement Wednesday				
Lending SA (GBP)	5.1B	to warn against speculation after yuan fell to its lowest versus dollar since 2008. Said "do not bet on one-way appreciation or depreciation of the yuan, as losses will definitely be incurred in the long term." Key market				
MA Manay Supply SA		participants need to "voluntarily safeguard the stability of the market, and b	e			
Launch Full Economic Calendar Source: FactSet Economics		firm when they need to iron out big rallies or declines in the exchange rate." Added that it has "plenty of experience" to fend off external shocks and effectively guide market expectations. Reuters takeaways attributed latest				

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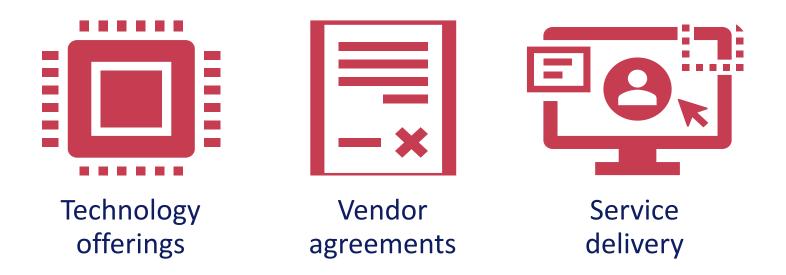
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yuan weakness to broad dollar strength buoyed by safe-haven demand and a hawkish Fed. However, corporate demand for dollars said to have been very

😔 Asia Reads



Virtualising the Investment Studio



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Salihin Mohammed Ali Technology & Innovation, SMU Libraries Singapore Management University salihinma@smu.edu.sg Thank youl