



# TechUP Friday!

**Brown Bag Series –  
Cybersecurity**

**By Tech-and-GO!**

18 December 2020

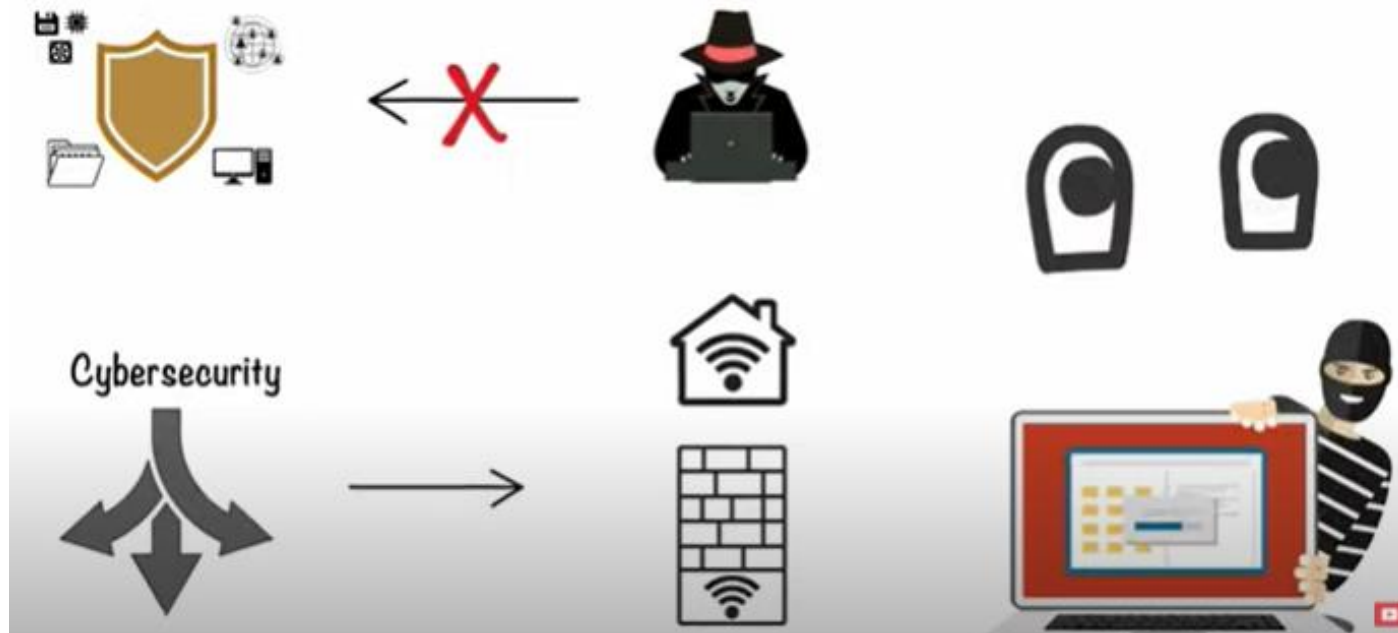
*Digital made easy*

\*Note. There is music playing. If you do not hear any, please check your audio setting. Thank you.

# Event Outline

| Time   | Programme  |
|--|--|
| 12pm-12.10pm   | Introduction by Pumpkin Squad  |
| Demo 1:<br>12.10pm-12.30pm<br><br>Demo 2:<br>12.30pm-12.50pm | <u>Demo by Tech Vendors</u> <ol style="list-style-type: none"><li>1. Data Connect Technologies</li><li>2. Singapore Telecommunications + Trustwave</li></ol> <p><u>Format:</u><br/><i>For each vendor:</i></p> <ul style="list-style-type: none"><li>• 15 min briefing and demo</li><li>• 5 min Q&amp;A</li></ul> <p><i>Note:</i></p> <ul style="list-style-type: none"><li>• <i>NCSS does not endorse or pre-approve these vendors. Today's tech demo is mainly to increase SSAs' awareness of how the solutions could do help with their work. SSAs are advised to exercise discretion and assess vendors based on your requirements and/or procurement processes, if any.</i></li></ul> |
| 12.50pm-1pm  | Cloud vs On-Premise<br>Resources, What's next & Feedback   |

# What is Cybersecurity



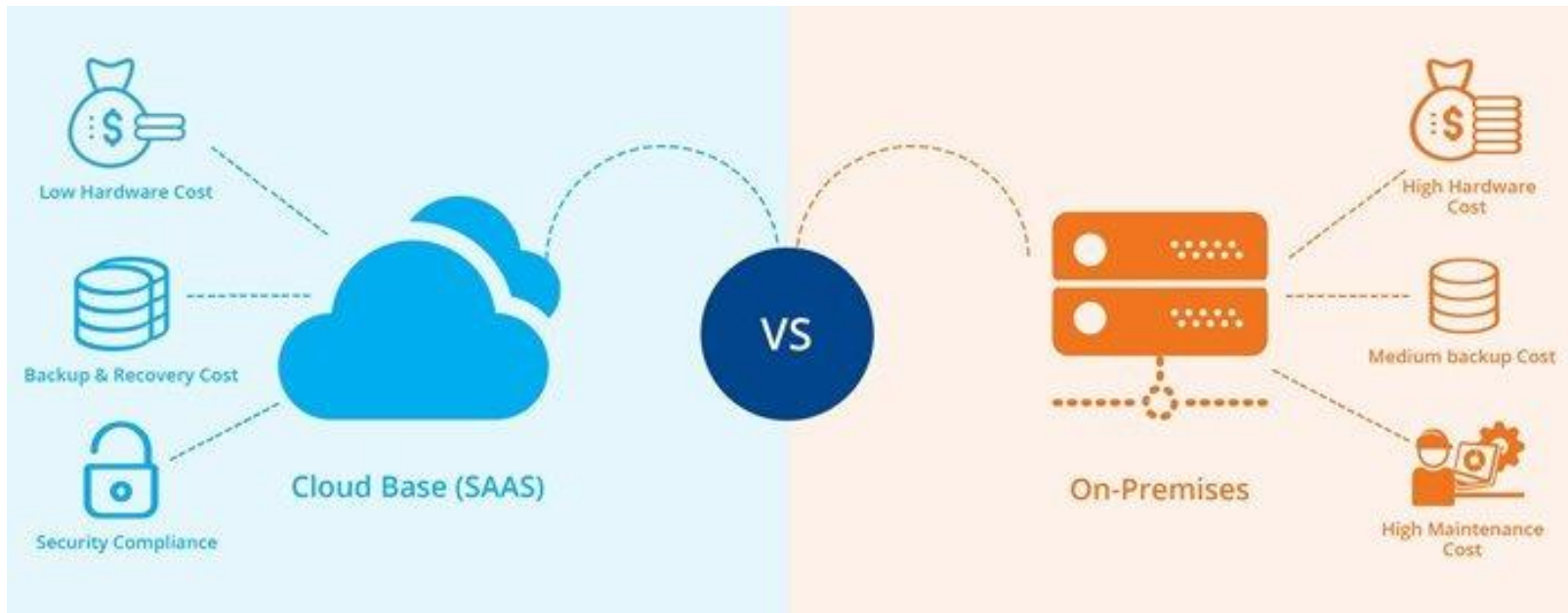
Watch the video here:  
[What Is Cyber Security: How It Works?](#)



# Tech Demos



# To Cloud or not to Cloud?



Hosted on cloud vendors' servers, and accessed on web browser

Monthly/annual subscription, recurring fees for support, training and updates

Hosted locally on company's own computers and servers

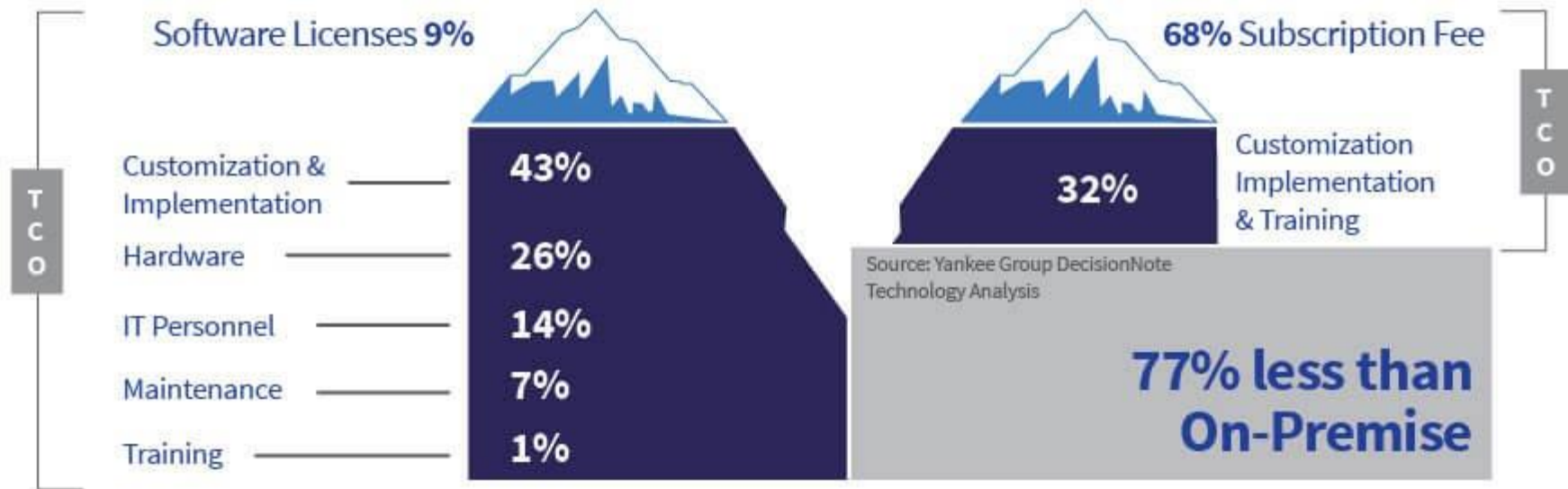
One-time license fee with recurring fees for support, training and updates

## Cloud Lowers Total Cost of Ownership

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### On-Premise Software

### Cloud Computing



“Customers can spend up to four times the cost of their software license per year to own and manage their applications.”

- Gartner  
“The End of Software”

“Cloud computing yields substantial economies of scale and skill, and lowers total cost of ownership (TCO).”

- The Hurwitz Group  
“The Compelling TCO Case for Cloud Computing”



# Key Considerations

## On-Premises

**9%**  
software licenses

Customization & implementation

Hardware

IT personnel

Maintenance

Training



### Ongoing costs

- Apply filters, patches, upgrade
- Downtime
- Performance tuning
- Rewrite integrations
- Upgrade dependent applications
- Ongoing burden on IT
- Maintain/upgrade hardware
- Maintain/upgrade network
- Maintain/upgrade security
- Maintain/upgrade database

Ease of access

Infrastructure

IT Manpower

Server Safety

## Cloud Computing

**68%**  
subscription fee

Implementation,  
Customization &  
training



### Ongoing costs

- Subscription fee

Cybersecurity

Internet

Cost effectiveness

# Cloud ERP vs. On-Premise ERP



## Cloud ERP

### Cost

Low upfront cost and predictable cost over time

### Security

Data security is the vendor's responsibility

### Customization

Offers stability and continuous updates from vendor, but doesn't offer much customization

### Implementation

Typically takes less time to implement



## On-Premise ERP

### Cost

Upfront cost is higher, making it an investment that can pay off over time

### Security

Data security is the user's responsibility

### Customization

Offers customization options

### Implementation

Implementation can take longer, especially if there are many customizations

Source: [Cloud ERP vs. On-Premise ERP \(softwareadvice.com\)](https://www.softwareadvice.com)



## ON PREMISE

Licenses | Configuration | Customization |  
Hardware | IT Personnel | Training

Ongoing burden on IT | Maintenance Fees  
Maintain and upgrade Hardware, network,  
security, database | Downtime | Apply fixes,  
patches and upgrades | Dependent application  
upgrades | Rewrite Customizations and  
Integrations | Performance Tuning

VS.

## CLOUD

Training | Implementation |  
Configuration and  
customization

One Monthly Fee

- ✓ Lower start up investment
- ✓ Always the latest version
- ✓ Externally accessible
- ✓ Lower, predictable TCO
- ✓ Shorter time to deploy
- ✓ Faster innovation
- ✓ More secure
- ✓ Scalable for actual need

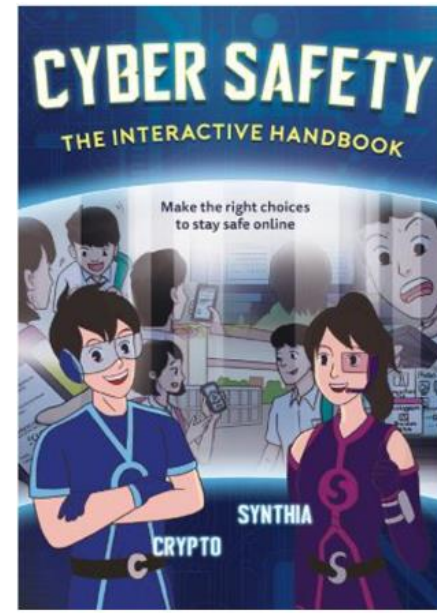
# Resources



[Singapore's Safer Cyberspace Masterplan 2020 \(csa.gov.sg\)](https://www.csa.gov.sg)



[Singapore Cyber Landscape 2019 \(csa.gov.sg\)](https://www.csa.gov.sg)



[Cyber Safety Interactive Handbook \(csa.gov.sg\)](https://www.csa.gov.sg)

# Tech-and-GO! Funding for NCSS Members & SSAs funded by MSF

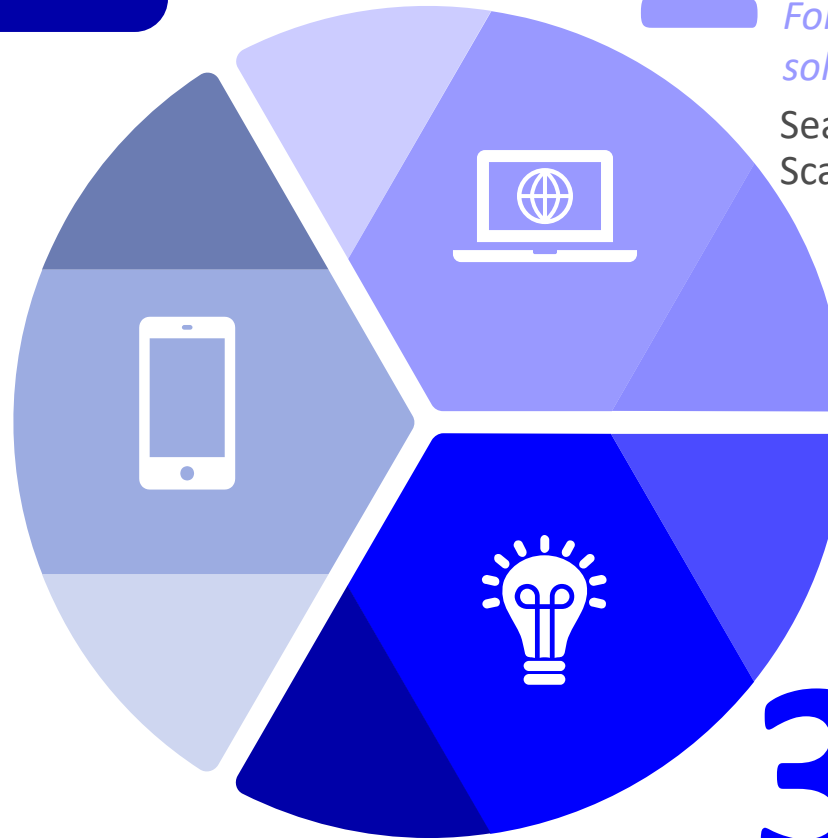
**KPIs:** 10% Productivity Gain  
70% Staff/Client Satisfaction

**2 Go Digital**  
80% capped at \$300k  
*For large-scale/specialised IT solutions*

Seamless Client Experience,  
Scaled & Integrated Operations

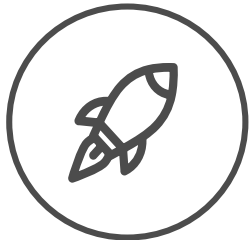
**1 Start Digital**  
80% capped at \$30k  
*For pre-scoped IT Solutions*

Improved Client Experience,  
Optimised Operations



**3 Consultancy**  
80% capped at \$40k  
Digital Implementation,  
Digital Strategy Planning

# What's next?



## Apply for Tech-and-GO! From 4 – 29 Jan 2021

To access application form, please visit (*forms will be up by 4 Jan 2021*):  
<https://www.ncss.gov.sg/Our-Initiatives/Tech-and-Go/Funding>



## Look out for more TechUP Friday! next year

Get equipped in Cybersecurity and Data Protection  
Learn about more digital solutions



## For more information, please

Visit <https://go.gov.sg/tng> or contact [Tech-and-GO@ncss.gov.sg](mailto:Tech-and-GO@ncss.gov.sg)



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# Thank You for Joining TechUP Friday!

Indicate your interest in the grant, subscribe to our mailing list or provide us your feedback by scanning this QR code:



<https://go.gov.sg/techupfeedback-18dec>



**Merry Christmas &  
Happy New Year!**