



# Deployment of Privileged Access Management for System Administrators

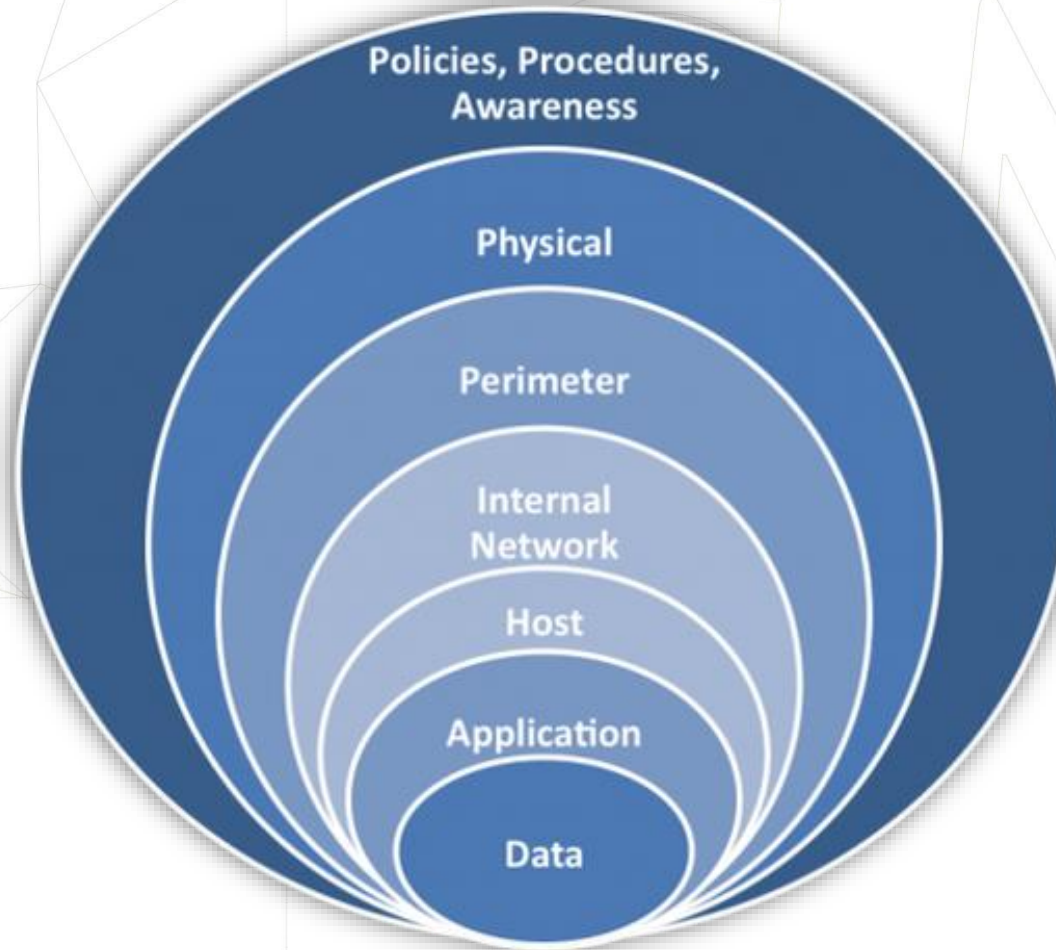
Presented by

Lim Ken Lee

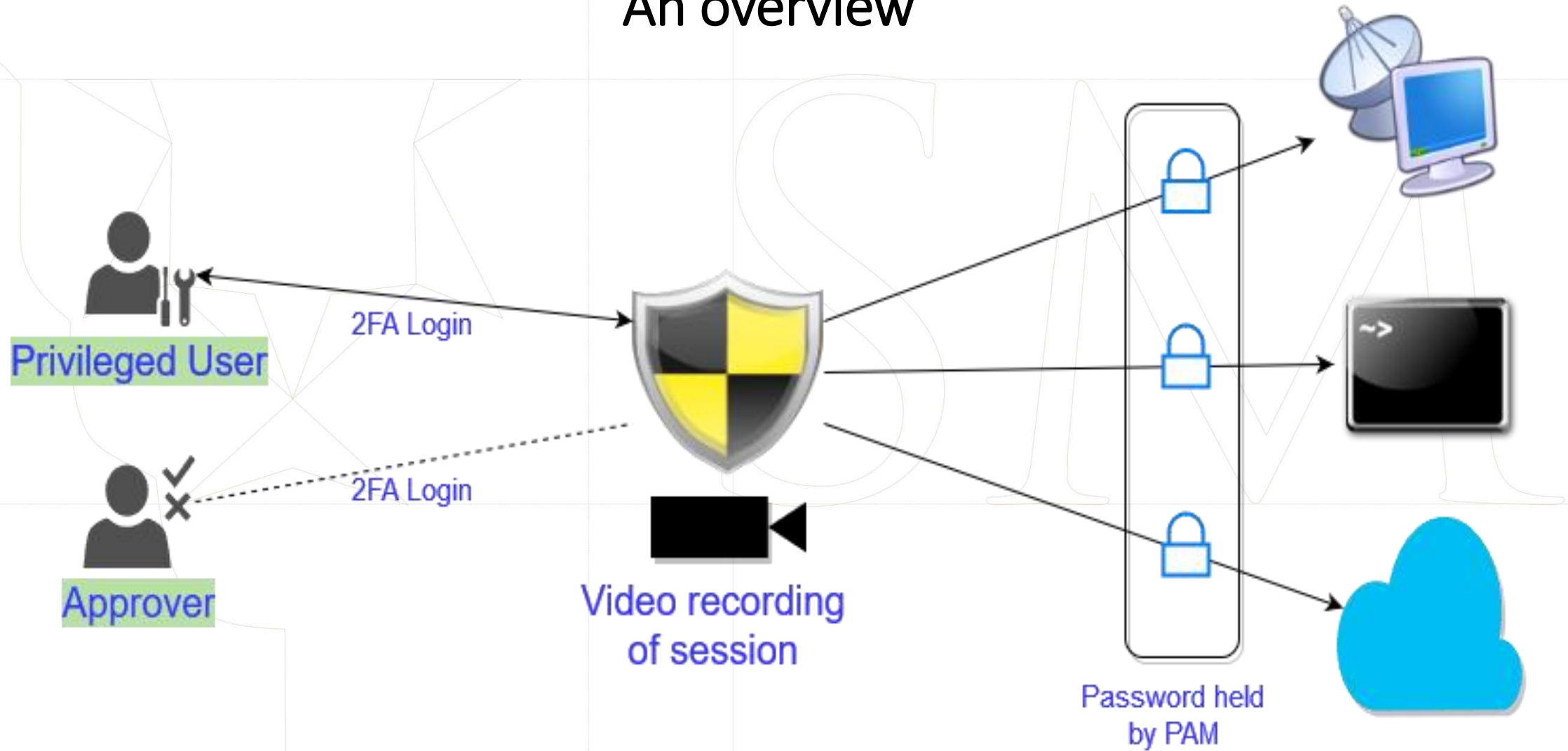
Ho Soo Ming

**Let's make SMU safer by restricting administrative access**

# How PAM achieves this



# An overview



## We are able to address these issues now

1

Lack of 2 factor authentication

2

Approval Workflow

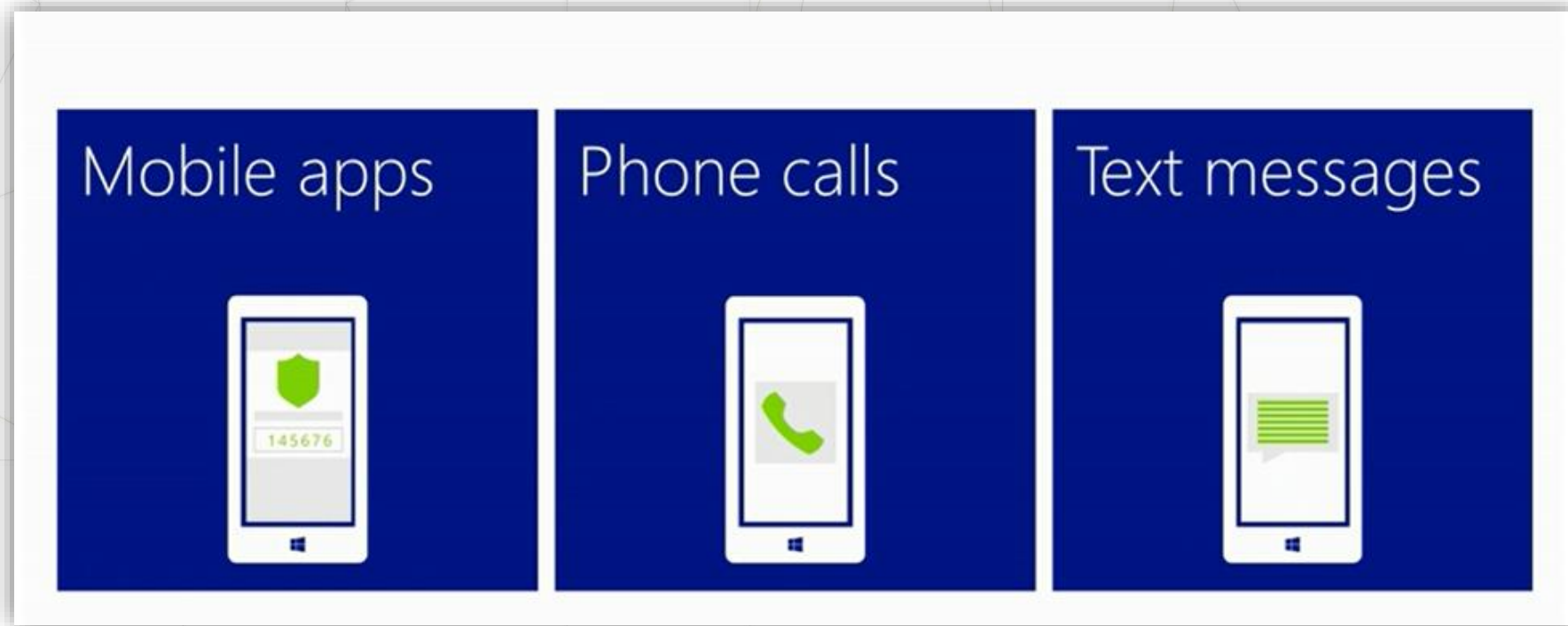
3

Provide audit records of access

4

Administrative access not monitored

# 2FA



# Access approval

Password View Request Approval

ID: 1338

Account Name: [REDACTED]

Application Name: [REDACTED]

Host Name: [REDACTED]

Device Name: [REDACTED]

Auto Connect: [REDACTED]

Requested By: [REDACTED]

Request Start Date: [REDACTED]

Request End Date: [REDACTED]

Reason: Severity 1: Manual recovery from server outage

Reason Description:

Reference Code:

Status:

Reason:

Reason Description: approval for case #1999999

OK CANCEL

# Auditing

## View Password Requests

Report Generated: 2018/07/24

Time Zone: Asia/Singapore

Date Range 2018/07/24 to 2018/07/24

Sorted by: Date

Total entries: 6

Date	Hostname	Application	Account	Reason	Details	Code	Requestor
2018/07/24 17:06		Administrative Access to SCCM	adm_sccm_admin	Other	Not required		@smu.edu.sg
2018/07/24 16:04		Administrative Access to SCCM	adm_sccm_admin	Other	Not required		@smu.edu.sg
2018/07/24 14:41		Administrative Access to SCCM	adm_sccm_admin	Other	Not required		@smu.edu.sg
2018/07/24 09:02		Administrative Access to SCCM	adm_sccm_admin	Other	Not required		@smu.edu.sg
2018/07/24 08:34		Administrative Access to SCCM	adm_sccm_admin	Other	Not required		@smu.edu.sg
2018/07/24 08:20		Administrative Access to SCCM	adm_sccm_admin	Other	Not required		@smu.edu.sg





# Access recording



Info

Now Playing

Session Info

Server:  
Security Layer:  
Encryption Level:  
Source IP:  
Resolution:  
Duration:  
Start:  
End:  
User Info  
User:  
Domain:  
Xsuite ID:  
Xsuite User ID:  
Recording Info  
Recording Type: RDP  
Size: 285.32 kb  
SHA Verification: In Progress...

Events

Filter:

Type	Time of Event	Description
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Description

Applying user settings...

84%

Windows Server 2008  
Enterprise

Jump to Time: 10 : 21 : 02



10:21:02  
00:00:00 / 00:00:56

# Issues

Your password or your life

Not a one size fits all deployment

Approver unavailable == No access



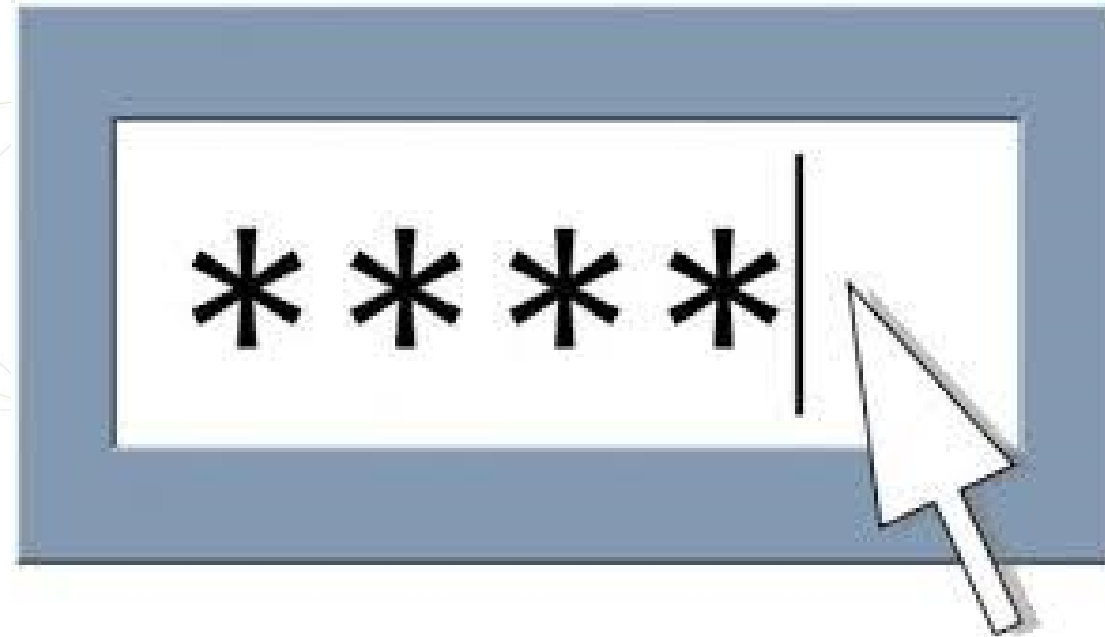
# Key takeaways



Administrative accounts are the greatest asset, secure it



# Use a PAM to provide access without revealing password



And finally a "break glass account"





**THANK YOU**







**THANK YOU**



