specified in step Pre-Controls Post-Controls as specified in step 2.1) specified in step 3.1) (from step (from step 3.1) 3.1) 3.2) Enforce strong password assignement Block accounts Password attacks on Week password user credentials Notify users and enforce password Password hashing + salting reset Faulty server Enforce the use of the latest TLS version Block accounts MITM attacks authentication Notify users and enforce password configuration Disable support for older TLS versions Third Party Authentication reset Server Appliances No load balancing and/or Deep inspect traffic and blacklist non-DDoS attacks 3 Adopt DDoS protection service DDoS protection service legitimate users Backup the machine for forensics Adopt CCTV cameras Broken physical access Equipment tampering Backup server configuration

Use higherical access control Install firewall to block ports TCP 1433, 4022.

Periodically backup users data

Backup database configuration

Password hashing + salting

Password hashing + salting

Update software to adopt input sanitisation Enforce strong password assignement

Setup transaction audit for the database

Adopt least priviledge access control

Enforce strong password assignement

Enforce the use of the latest TLS version

Disable support for older TLS versions

Install firewall to block ports TCP 1433, 4022,

Update software to adopt input sanitisation Enforce strong password assignenment

Setup transaction audit for the database

Adopt anti-spam software for mail agent and / or

Run background checks on the official to select

Adopt anti-spam software for mail agent and / or

Run background checks on the official to select

Adopt least priviledge access control

Select and train backup officials

Setup a VPN for remote access

Adopt DDoS protection service

Periodically backup users data

Backup database configuration

Password hashing + salting

SMTP server

SMTP server

Train users

Train users

135, 1434, UDP 1434

135, 1434, UDP 1434

Threats (same as

SQL injections

Password attacks on

Password attacks on

user credentials

MITM attacks

DDoS attacks

SQL injections

Password attacks on

admin credentials

(spear) Phishing

Data leak

attacks

Disease

attacks

Dispass

Blackmailing

Blackmailing

(spear) Phishing

admin credentials

Data loak

Vulnerability (same as

No input sanitization

Poor permission

Week password

Faulty server

authentication

configuration

No load balancing and/or

DDoS protection service

Poor credential managing

Poor permission

management

Untrained users

Officials can get ill

Poor personal data

confidentiality

Untrained users

Officials can get ill

Untrained users

No input sanitization

management

Poor credential managing

Supporting Assets (same

Third Party Authentication Database Appliances

Generic 2FA Server

Appliance

Generic 2FA Database Appliance

Input Officials

CSB / GSB personeel

Step 4: Risk Treatment Step 4.1: Risk Treatment and Calculation of Residual Risk for Supporting Assets

Reviewed

Impact

3

Reset server and restore configuration

If tables are exfiltrated, block accounts

Notify admin and enforce password

Notify users and enforce password

Notify users and enforce password

Notify users and enforce password

Deep inspect traffic and blacklist non-

If tables are exfiltrated, block accounts

If tables are exfiltrated, notify users and

Notify admin and enforce password

Notify users and enforce password

configuration and users data

enforce password reset If tables are dropped, restore data using

Block admin account

reset If needed restore database

reset

reset

reset

Block accounts

Block accounts

Block accounts

legitimate users

enforce password reset If tables are dropped, restore data using

Block admin account

Block accounts

reset

If needed restore database

Enforce credential reset

Switch to backup official

Check logs for misconduct

Check audit for misconduct Enable credential for user and let

him/she access from home Disaster recovery

Check audit for misconduct

Enforce credential reset

Disaster recovery

Check audit for misconduct

configuration and users data

If tables are exfiltrated, notify users and

I ikelihood

Residual

Impact

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3

Pacidual

Likelihood

2

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3

2

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3

Residual Risk

level (from

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I OW

I OW

MEDILIM

I OW

I OW

I OW

I OW

I OW

MEDIUM

I OW

MEDIUM

I OW

MEDIUM

MEDIUM

LOW

LOW

Table 3.1)