



# Ensuring Data Protection In The Cloud In Australia

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*Abstract*-Cloud computing in simple term is renting your data storage, applications and other computing services over the internet.

## I.INTRODUCTION

Cloud Computing is the delivery of computing services – including servers, storage, databases, networking, software analytics and intelligence over the internet for offering innovation and flexible resources.

Advantages of Cloud Computing:

- Secured
- Less Costs
- Available for rent
- Data Storage Facility

Disadvantages of Cloud Computing:

- Security Risks
- Hacking
- Data Breaches
- Unauthorised Access

## II. RESEARCH METHODOLOGY

Australian Parliament House

- One data breach incident, I could say, On February 2019, in Australian Parliament House, where the data breach via network had occurred by a nation – state criminal group. It was confirmed that China was responsible for the attack.

It also resulted in the data loss and later was confirmed by, Mr. Mike Burgess, Head of Australian Signals Directorate (ASD) that, it was an insensitive data loss.

By using, Phishing methods, the cybercriminals had stolen the employee credentials and gained access to the Government's network.

Ok, What is meant by Phishing?

Phishing occurs when an attacker logs as a trusted one and dupes a victim to steal money or to launch other attacks.

Examples are: Fraudulent communication via email, attacker pretends to be someone else, often as an authoritative figure.

### Microsoft

- Another data breach incident, I could say that had occurred, On January 2024, an attacker from Russian hacker group had used a method called “Password Spraying” had hacked the Microsoft's corporate email system.

Also the SolarWinds data breach attacker named Cozy Bear, from the Russian-backed Hacker group, was behind this attack. Later, On January 13, 2024 the hacker's access were removed.

Ok, What is meant by Password Spraying?

Password Spraying is a Cyberattack tactic where a hacker uses a single password, to try and then break into multiple target accounts.

### III. RESULTS AND DISCUSSION

Now, How to avoid Phishing and Password Spraying are as follows:

- The first point, I could say is that, we should use Multi-Factor Authentication.
- The second point, I could say is that, if Multi-Factor Authentication is unavailable, immediately reset the password for the privileged and administrative domain accounts.

### IV. CONCLUSION

Hence, I could conclude saying that, there should be an introduction of a mandatory law to use the Multi-Factor Authentication method, by the way ensuring data protection in the cloud in Australia.

### V. REFERENCES

[1] <https://www.upguard.com/blog/biggest-data-breaches-australia#toc-9>

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