Jabatan Kemajuan Masyarakat

Customer Background

The Community Development Department, often known to the public as **KEMAS**, was established in 1961 as an extension of the Adult Education Division.

Following the launch of the "New Economic Policy" in 1970, KEMAS shifted it's focus toward community development and in an effort to combat illiteracy and poverty in the rural communities of Malaysia, KEMAS adopted the '**Functional Literacy**' concept introduced by UNESCO in 1977.

Challenges

■ **3 Tier Structure**

1. Traditional structure (server, storages and network)

- A majority of the servers were aging with only 2 engineers responsible for managing all the conventional servers.
- Management of both the 8 physical servers and 4 ESXI VMware hosts in the infrastructure was a primary challenge in terms of management efficiency.
- Because the network was separated into 2 zones (server and DMZ), an excessive number of ports were being utilized and the complexity of the network was greatly increased.
- Management of both VMware and physical servers, all with different access methods, was complex and inefficient.

Executive Summary

- Ministry
- Industry: Government
- Location: Malaysia

Challenges

- 3 Tier Architecture
- High Availability
- Expansion Bottleneck

Sangfor Solution

- aCloud Consolidation
- Reliability architecture
- Efficient expansion

Customer Success Story

Challenges

■ High Availability

- Traditional servers weren't necessarily highly available, causing management to worry about reliability.
- With no restoration method in place, in the event of a failure all data would be lost. After experiencing a catastrophic data failure, management was convinced they needed a virtualization solution to prevent this loss in the future.

■ Expansion Bottleneck

- When new applications were added, the VMware host became fully occupied and KEMAS was required to purchase additional physical servers to support their network.
- Their existing system required an increased cost when expanding with new applications.

Sangfor Solution

Sangfor consolidated both the traditional & VMware platform into Sangfor aCloud, with high availability features and automatic VM failover when node failure occurs. aCloud enhanced the CPU expansion efficiency, meaning easy future expansion of memory and disks without requiring additional nodes.

Solution Values

■ 3 Tier to 1 Tier Consolidation Solution

- Migrated all the physical servers and EXSI host VMs into Sangfor aCloud.
- Centralized both servers and DMZ zone into Sangfor Network Virtualization management console, creating network segments within the aCloud console and reducing the complexity of physical network segmentation.
- The user-friendly web UI allows customers to easily manage aCloud without any onsite Sangfor training.

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Customer Success Story

Solution Values

■ Ensure Business Continuity

- In the event of node failure, the VMs were equipped with automatic failover, expediting recovery to around 1 minute.
- In the event of VM failure, built-in recovery imaging means recovery is possible within 3 minutes.

■ Expansion Efficiency

- New applications are easily created and resources assigned (CPU, RAM, disk) based on requirements, with no additional nodes required.
- No further nodes will be required regardless of future expansion, the addition of extra RAM or disks, eliminating the need to invest in new nodes.