SYST8111 – Server Virtualization

Assignment 1: Private Cloud Platforms

Overview

This is your first assignment for server virtualization. It is based on module 1 and requires you to do some research on Private Cloud Platforms available, assessment attributes and factor analysis. This research is very important to build the initial base for understanding vendors responsible for providing private cloud platforms. This assignment is reflection of our learning outcomes of week 1.

You will also be using course material uploaded on eConestoga shell for references and will extend your research according to the given questions for this assignment. Read through the entire assignment first so that you completely understand what you are trying to achieve and create a basic plan. This will likely save you problems and having to repeat work later on. This assignment is segregated into three parts.

NOTE

* This is an individual assignment
* It will be assessed against existing bodies of work
* This assessment is out of 15 marks

Task

In this assignment you must compile your answers in one DOCX, or PDF file. Make sure to number your answers by properly referring part numbers and sub question number. As this is a research-based assignment therefore proper citation and referencing is a must. Any answer without proper citation and referencing will not be evaluated. Kae sure you refer to genuine and official web resources of vendors proving private cloud platforms. Once the assignment is complete, upload the document to eConestoga.

Part A – Vendor Identification

We have discussed various vendors that provide private cloud platforms and various infrastructure services. Do your own research answer the following questions.

1. List any five vendors and their profile in the domain of cloud computing (Max 5 lines).
2. List out at least five infrastructure services corresponding to each vendor for building private cloud architecture.
3. Identify the purpose associated with each infrastructure service listed in question 2.
4. List out one use-case for each vendor who have built their private cloud architectures on their platforms.

Part B – Feature Comparison

You have identified the vendor list in part 1 and are aware of infrastructure services supported by them. In this part you will continue your research for comparing features included in selected private cloud platforms. Give answer to the following questions.

1. Create a feature comparison chart. This comparison chart must include vendor name, feature list and reference.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Feature 1 | Feature 2 | Feature 3 |
| Vendor 1 |  |  |  |
| Vendor 2 |  |  |  |

1. Highlight two significant features which are most critical to any organization for the final selection of a platform to build on private cloud infrastructure.

Part C – Comparing Cloud Deployment Models

As per part 2 of this assignment you are now aware of features required to support private cloud infrastructure. But there are other cloud deployment models also. In this part you will further extend your research and answer the following questions.

1. Compare Public vs Private vs Hybrid Cloud Models
2. Identify one business case for each model. This answer must contain the following descriptions:
   1. Business Name
   2. Cloud Deployment Model and Vendor Name
   3. Service architecture deployed.

Rubric

|  |  |  |
| --- | --- | --- |
| **Section** | **Expectations** | **Marks** |
| **A** | * Answer justifying the question * Language clarity * Reflation of student understanding | 4 |
| **B** | * Answer justifying the question * Language clarity * Reflation of student understanding | 2 |
| **C** | * Answer justifying the question * Language clarity * Reflation of student understanding | 2 |
| **References** | This assignment is research-based assignment therefore it must contain proper reference to each context.  Reference sources can be as follows.   1. Research papers from international journals 2. Online blogs from experts (Must be genuine subject matter expert from the given domain) 3. Documentation from vendor website 4. Audio, Video or URL from authenticated online resource. | 4 |
| **File and Format** | * Title page with student information * Proper sequence number assigned to ach answer as Part (A/B/C) and Answer # * Readability and Formatting | 3 |
| **Total** |  | 15 |