**Azure Infrastructure & Student Access**

Azure Infrastructure access & permissions required to create resources within the Resource Group will restricted to Rob & Krissi

Students will be able to access their work remotely, regardless of DB2 or DB3. This will be via Putty and assigned logins. Their access for MariaDB databases will be limited to that which start with their username. I.E ARMSFA1-Database

**Backups**

**DB3**

Azure SQL Databases automatically create full back-ups weekly. Back-ups have their timing determined by the SQL Database in order to balance system workload, this cannot be changed. Back-ups can be stored for 1-35 days; however, you are able to specify a back-up and have it stored with Azure for up to ten years.

**DB2**

MariaDB creates server backups by default. These can be stored for 1-35 days and are encrypted using 256-bit encryption. The rate at which back-ups are created is based on the size of the server. Aside from adjusting the retention period to the full 35 days, no extra work is required here.

**Security**

Virtual Machines themselves will be protected by authentication, meaning a login. Users are forced to change their password initially and are subject to time bound restrictions and various role restrictions as the only users with access to a majority of services will be Krissi and Rob. Students will have Global Reader privileges, meaning that they’re unable to access resource groups. NSG’s will be used to manage traffic, in addition to OS firewalls. Alternatively, Azure Defender and Microsoft Defender Security Centre are both alternatives.

**Scripting**

Scripts that have previously been used for similar tasks to automate the creation and population of Databases as well as granting them appropriate privileges has been found. The intention is to replace this script with a modern, appropriately commented version. Additional scripts may be required in regards to adding late registrations.

**Architecture**

**DB3**

We mimicked the current set up in both DevTest labs and standalone VM’s, but found that a standalone VM was the best option to meet our needs. This is because the way networking is set up, we were unable to successfully set up port forwarding to connect to SMSS using DevTest labs. DB3 should have its own resource group. The SQL Server runs within a Docker Container on the standalone VM.

**DB2**

Because there is no need to connect to SMSS in DB2 we recommend using DevTest labs. This would be particularly useful for spinning up the temporary security server used for one week of the semester.

**Networking**

**DB3**

Networking is an important aspect to take into consideration as students will need to connect SMSS to the SQL container both on and off campus. I was unsuccessful in connecting DevTest lab VM’s to SMSS, but was able to connect my standalone VM using port forwarding. To achieve this I had to add a rule to my NSG allowing incoming traffic on 1433. Because the server is hosted on Azure students will not be required to pivot through Kate when off campus.

**DB2**

MariaDB is a lot simpler to work with for students. A single MariaDB server is hosted on Azure, students are then able to Putty into the server locally or remotely, sign in with credentials given to them and then access their Databases. As this is moving to Azure next year, students will no longer need to pivot through Kate when working remotely.

**Alternate Solutions**

Azure Functions could be used to create a serverless architecture which could potentially save on resources and the cost of storage. We are currently waiting on access to this service. Additionally, MariaDB, which is currently used in DB2, has been suggested as an option for DB3, however this will need to be investigated further.

Suggestions for DB2 + DB3

**Architecture:** DevTestLabs vm’s can be spun up easily while policies are put in place to ensure resources are not blown. This feature is particularly useful for spinning up the throwaway server needed midsemester in db2. Because teaching will remain the same in 2020, I decided the most practical approach was to mimic the current setup as closely as possible. I suggest using an Ubuntu 16.04 LTS or 18.04 vm as I ran into support issues when installing mssql-tools on Ubuntu 20.04 LTS. Sqlcmd is necessary so users can connect to their sql servers outside of their containers. I experimented using standalone vm’s and devtestlabs.

* Individual Resource groups for DB2 and DB3
* Standalone ubuntu vm
* approx $90 to run per month.
* DevTestLab vm’s are issued FQDN’s instead of public ip’s. Overall I found DevTestLabs to be less flexible and harder to manage. Because of the small amount of VM’s required, I do not recommend using devtest labs.
* Role assignment: Administrator access for Krissy and Rob, students Global Readers
* Alternative solutions: Azure Functions for a serverless architecture, Azure SQL Server instead of running inside a docker container. We are waiting on access to these resources.

**User creation** – Because the environment is the same as db3docker.ict.op.ac.nz I was able to utilize the user management scripts. The scripts create local users in db2, and local users that can access docker commands without sudo permission.

**Docker** – I need to confirm whether users each have their own container, or if a single container is shared. To save on resources a single sql container could be shared by students, and permisssions could be used to give students their own database. This would eliminate the need to automate container creation on each local user account. At present I don’t see how this would work, but hear this is how things are currently done. I need to confirm whether or not this is the case.

**Database creation** –I believe the best solution would be a bash script that intakes a list of users & creates a database for each user within the shared sql container. Security options will need to be considered to ensure students can’t connect to each others database. Ideally database creation will be automated for both classes.

**Security -**

* ***Access:***The VM’s themselves will be protected by authentication, users are forced to change their password upon their first login
  + Time bound restrictions on login – time outs, not allowing more than x logins
  + Role assignments – Assigning only Krissy & Rob as administrator users. Having users as Global Readers will mean that users cannot modify resource groups. This will ensure that nothing is accidently deleted. This will also mean that only Rob and Krissy can spin resources up.

<https://docs.microsoft.com/en-us/azure/active-directory/users-groups-roles/directory-assign-admin-roles>

* ***Networking* –** Using the Network Security Group to manage inbound and outbound traffic. I suggest using a different port than 22 for SSH for an added layer of protection. This would be in addition to OS based firewalls.
* ***Azure Defender –*** Azure defender is a paid resource that detects unusual attempts to access resources. It also will periodically scan images for vunerability. Pricing can be found here <https://azure.microsoft.com/en-us/pricing/details/azure-defender/>
* ***Microsoft Defender Security Centre*** – Provides dashboard, <https://www.microsoft.com/en-nz/microsoft-365/compare-microsoft-365-enterprise-plans>

**Backups**

MariaDB by default, will automatically create server backups. These are stored in user configured locally redundant storage. Backups can be used to roll back the server to a certain point-in-time. Backups are an essential part of any business strategy; however this is even more so important as it will be used by a group of students who will, at large, be unfamiliar with the system. Mistakes, corruptions and deletions happen, and it’s important that we’re able to minimize the impact of this on the students.

By default, the retention period is seven days, however, it can optionally be extended to up to 35 days. All backups are encrypted with AES 256-bit encryption.

The rate at which servers are backed-up is based on the storage size. Servers under 4-TB will do a full back up weekly, differential backups twice daily and transaction log backups every five minutes.

**Networking** – Networking is an important aspect to take into consideration as students will need to connect SMSS to the sql container both on and off campus. I was unsuccesful in connecting devtestlab vm’s to SMSS, but was able to connect my standalone vm using port forwarding. To achieve this I had to add a rule to my NSG allowing incoming traffic on 1433. Because the server is hosted on Azure students will not be required to pivot through Kate when off campus.

![Graphical user interface, text

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Resources:

https://docs.microsoft.com/en-us/sql/linux/quickstart-install-connect-docker?view=sql-server-ver15&pivots=cs1-bash

<https://docs.docker.com/engine/install/ubuntu/>

User creation scripts https://teams.microsoft.com/\_#/school/files/General?threadId=19%3Aa8a40536c7994b249a1760a083b4775b%40thread.skype&ctx=channel&context=Scripts%2520for%2520Load%2520User&rootfolder=%252Fsites%252FOperationsandSecurity%252FShared%2520Documents%252FGeneral%252FScripts%2520for%2520Load%2520User

DB3 – Azure Migration Scripting Write-up

Now that our group has an understanding of what this process is going to involve, we’re able to begin planning some of the finer details. After speaking with Krissi, our client, we determined that we would need to host an SQL server via Docker, which would then need to be populated with the correct data based on the new students coming in. It was very quickly realized that we would need a script in order to automate the process.

When looking around through prior work done by the Devop’s group, we came across instructions and old scripts for a very similar task, however focusing on Databases 2 over Databases 3. This gives us a basic outline that I was able to use to plan out what had to come next. While retrofitting it to match DB3 is a possibility, I feel like it would be much easier and cleaner to simply create a script focused on this exact problem.

A requirement that I have to keep in mind is that DB3 students start the semester with access to a basic database already loaded up and ready for them to access. As such, we will need to ensure that this database is created and appropriate permissions are given to each student.

Passwords are given to each student in order to access the SQL server. These will be created and assigned to each student and will need recorded. Students are given these passwords in plaintext at the start of the semester, being advised to change them right away, so keeping these completely hidden is not required.

I’ve included a basic skeleton for the script that I will need to create.

* Load in a Excel spreadsheet containing information on students coming in.
* Extract their relevant information via sub-strings and store in an array.
* Inside of a ‘for-each’ loop, create a database for each student (IN705\_202001\_<student-code>), then execute a SQL query in order to populate the database.
* Generate and store passwords and logins for each student.
* Create an account for each student on the SQL server using the appropriate information.

Additionally, I would like to create a separate script for adding individual missing students. I intent to thoroughly comment both scripts, as well as creating an instructional document for students to use in the future.

**Tl;dr**

I have determined what needs to be done in order for this task to be automated in the future. I plan to create a script to execute our solution as well as instructions for Devops students in the years ahead of us. I have considered security and possible late registrations within my solution.

**Costs**

**VM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **VM size** | **CPU** | **RAM(GB)** | **Data Disk** | **Cost / Month ($)** |
| **B1ls** | **1** | **0.5** | **2** | **7.28** |
| **B1s** | **1** | **1** | **2** | **14.57** |
| **B1ms** | **1** | **2** | **2** | **29.14** |
| **B2s** | **2** | **4** | **4** | **58.28** |
| **DS1\_v2** | **1** | **3.5** | **4** | **92.71** |

**Storage**

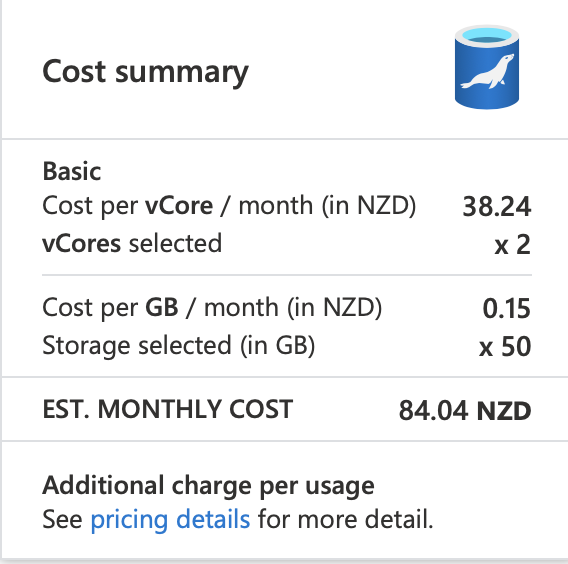
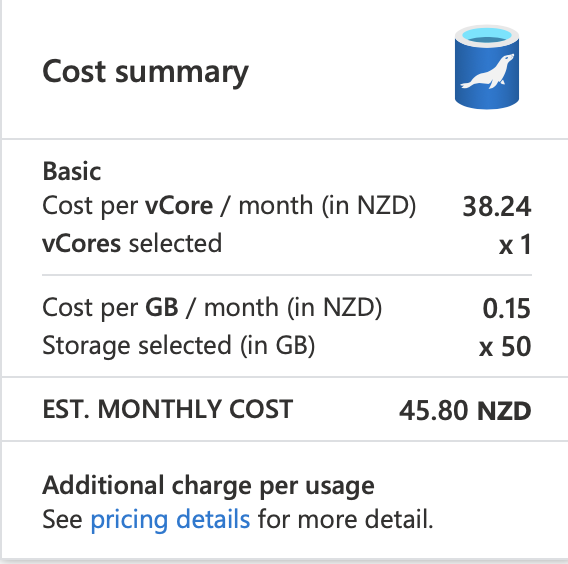
|  |  |  |
| --- | --- | --- |
|  | **Disk Size (GB)** | **Price Per Month ($)** |
| **P1** | **4** | **1.28** |
| **P2** | **8** | **2.55** |
| **P3** | **16** | **5.09** |
| **P4** | **32** | **7.99** |
| **P6** | **64** | **15.44** |
| **P10** | **128** | **29.81** |
| **P15** | **256** | **57.48** |

**Backups**

|  |  |
| --- | --- |
| **Size** | **Azure Backup Price per month** |
| **Instance < or = 50GB** | **$ 7.5598 + storage consumed** |
| **Instance is > 50GB but < or = 500GB** | **$ 15.1195 + storage consumed** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **LRS( local redundant)** | **GRS (geo-redundant)** | **RA-GRS (read/access)** |
| **Storage in GB/ Month** | **$0.0372** | **$0.0746** | **$0.0947** |

**Maria DB Server (Alternative Solution)**



Only provides MariaDB service, without the Linux VM

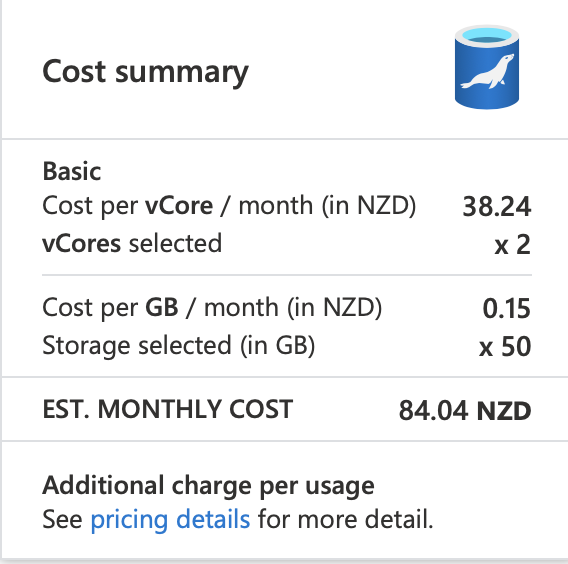
Users will have to be loaded onto mysql, not linux.

Command : mysql -h mydemoserver.mariadb.database.azure.com -u myadmin@mydemoserver –p

Used on Azure bash to access the database.

**SQL Server (Alternative Solution)**

Elastic Pool



**Azure Functions (Alternative Solution)**

Pricing is based on execution duration ($0.000025/GB-s) and number of executions ($0.303 per million executions). However it is difficult to determine an accurate estimate for pricing and to account for the potential number of executions for the DB2 and DB3 server.

<https://azure.microsoft.com/en-us/pricing/details/functions/>

**Back-ups**

Azure SQL Database create full back-ups every week, differential back-ups every 12-24 hours, and transaction log backups every five to ten minutes. The frequency of transaction log backup sis based on the size of the database and the activity on it. The four primary usages of back-ups, according to Azure are; Point-in-time restoration of an existing or deleted database, restoring a database to another geographical region and restoring from a long-term backup.

The first full backup is scheduled immediately after a new database is created or restored. After this initial first full backup, all subsequent back-ups have their timing determined by the SQL Database, as it balances the overall system workload. You’re currently unable to change the schedule of backup jobs or disable them.

By default, these back-ups are retained for seven days, however this can be adjusted from anywhere from one to thirty-five days. Additionally, it’s possible to set up long-term retention for up to ten years. This could be used to restore databases to a ‘clean slate’.

**Permissions and Policies**

**Azure Infrastructure -**

Azure Infrastructure access will be limited to Rob and Krissi

Permission to create VMs will be restricted to Rob and Krissi

**Student Access -**

VMs will be remotely accessed by students through SSH, using username and passwords which have been pre loaded on the VMs using the bash scripts.

**Student Permissions on VM -**

Students on VM will not have sudo privileges and will only be able to access mariadb databases which start with their username.