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|  <p><b>Departamento de<br/>ENGENHARIA INFORMÁTICA</b></p> <hr/> <p>Instituto Superior de Engenharia do Porto</p> | <p>Administração de Sistemas Informáticos</p> <p>2023 – 2024</p> <p>Sprint 3</p> |
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**An element of each group shall submit the task report that the group held in Moodle until January 2, at 11h55 pm. No further submissions are accepted.**

**The submission file name must have the form**

**<class>\_<student-number-1>\_<student-number-2>\_<student-number-N>.pdf**

For example, the group with students 9999997, 9999998 and 9999999 in the 3DZ class should submit a file named 3DZ\_9999997\_9999998\_9999999.pdf in Moodle.

**Each student must carry out three user stories, and it must be clearly indicated in the report who carried out each one. Each user story cannot be solved by more than one student in the group.**

When the user story has the prefix **B** it refers to the user story of the previous ASIST sprint, if it has the prefix **C** it refers to this sprint.

### User stories

1. As the administrator of the organization, I want a disaster recovery plan that meets the MBCO defined in US B5.
2. As the organization's administrator, I want a justification of the change(s) to be made to the infrastructure in order to ensure a MTD (*Maximum Tolerable Downtime*) of **20** minutes.
3. As a system administrator I want a backup of the DB(s) to be performed to a Cloud environment via a script that renames it to the format **<db\_name>\_yyyymmdd** where **<db\_name>** is the database name, **yyyy** is the year the copy will be performed, **mm** is the month the copy will be performed and **dd** is the day the copy will be performed.
4. As a system administrator I want that using the Backup prepared in US C3, a script should be created that manages the files resulting from that backup, on the following schedule. 1 Backup per month for the last year, 1 backup per week for the last month, 1 backup per day for the last week.
5. As a system administrator, I want the US C3 process to be kept in the Linux log, in a proper context, and alerted to the administrator on console access if a major failure of this process occurs.
6. As a system administrator, I want the backup of US C3 to have a lifetime of no more than seven (7) days except as indicated in US C4.
7. As an administrator of the organization, I want a **BIA** (*Business Impact Analysis*) of the final solution, adapting if and where applicable to US B4 risk(s).
8. As the organization's administrator, I want access management that meets appropriate security criteria to be implemented.
9. As the administrator of the organization I want a clustering system to be justifiably implemented between the systems that implement the SPA.
10. As a system administrator, I want the administrator to have SSH access to the virtual machine, by certificate only, without using a password.

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11. As a system administrator, I want a public file share, SMB/CIFS or NFS format, to be created to speed up the process among the various teams.
12. As a system administrator, we must ensure that in case of need the backups were performed correctly. To do this we must automate their replacement, validating in the end the operation of the system (Ex. Database - execute a SQL query successfully after replacement).

### **IMPORTANT!**

**A presentation that will take place in a PL class should be prepared.**