Week 7

Midterm Project Guidelines

Combinations with equivalent difficulty of configurations are listed and each group will be assigned to a configuration randomly during the class hour.

- You must follow configuration specified for your task.
  - All projects must deploy using 🪟local git from appropriate branch that git workflow mandates.

  > ⓘ **You may choose to use Python, NodeJS, .Net for your project. Choosing a language officially supported by Azure is advised.**

  > ⚠ **You need to deploy a small web application that has an endpoint** `/hello` **. When triggered your application should be able to connect to the PostgreSQL database with credentials obtained by the specified secret management method.**

- This is a group assessment, collaboration between groups is prohibited.
- Any evidence that indicate potential collaboration may affect grade of your work.
- You must keep track of online resources that you use during the development. Any action you take must depend on some documentation. If you use ChatGPT, CoPilot or Gemini you must be able to add shared link of the chat session and PDF version of the chat history. (Sharing resources is also considered as collaboration and prohibited)
- Each group **must** attend Midterm Project Presentations that will take place at **Class hours on 19.11.2025 (Schedule will be published later, stay tuned)**.
  - Students who miss presentations without an excuse (that officially accepted by the department) will be graded as zero even if they submit a work. (All group members must be present, otherwise they will get zero)
  - You will be asked to demonstrate your ability make change on the configuration or make additional minor configurations depending on your configuration, this will affect your grade on that part of the configuration.
  - You must be ready to answer questions and demonstrate that the deployment works in a short period (10-15 mins).
  - Bring HDMI compatible computer or adapter to connect to projector.
- An assignment page will be enabled on Yasar University Remote Learning System. Each student should submit a **single zip file** that contains the following before **19.11.2025 15:30**;
  - Zip of your git repository. Named as `<studentid>.zip`
  - Create word file that contains list of links, commands that you have executed and resources benefited during development. Named as `<studentid>.doc`
  - Upload their ARM configuration to separate upload section on `online.yasar.edu.tr`.
    - Follow 🪟Export template from resource group guide to download ARM template of your resource group.
  - Run the command and fetch the `activity_logs.json` file.
    - macos and linux: `az monitor activity-log list --start-time 2025-11-12T15:40:00Z --end-time 2025-11-19T15:40:59Z --output json > activity_logs.json`
    - windows powershell: `az monitor activity-log list --start-time 2025-11-12T15:40:00Z --end-time 2025-11-19T15:40:59Z --output json | Out-File -FilePath "activity_logs.json"`
    - windows cmd: `az monitor activity-log list --start-time 2025-11-12T15:40:00Z --end-time 2025-11-19T15:40:59Z --output json > activity_logs.json`

    > ⚠ **If your configuration requires CLI configuration. You must add CLI commands that you have used in the doc file.**

▌Difficulty Balanced Project List

1. Git Workflow: Trunk Based
   App Service: App Service - Portal - Private
   PostgreSQL: PostgreSQL - Portal - Private (Over VM SSH)
   Secret Management: KeyVault - CLI - Service Endpoint

2. Git Workflow: Git-Flow
   App Service: App Service - CLI - Public
   PostgreSQL: PostgreSQL - CLI - Public (IP Restriction)
   Secret Management: KeyVault - CLI - Public (Restricted Management)

3. Git Workflow: Trunk Based
   App Service: App Service - CLI - Private
   PostgreSQL: PostgreSQL - Portal - Private (Over VM SSH)
   Secret Management: KeyVault - CLI - Service Endpoint

4. Git Workflow: Trunk Based
   App Service: App Service - Portal - Private
   PostgreSQL: PostgreSQL - CLI - Private (Over VM SSH)
   Secret Management: KeyVault - CLI - Service Endpoint

5. Git Workflow: GitLab-Flow
   App Service: App Service - CLI - Public
   PostgreSQL: PostgreSQL - Portal - Public (IP Restriction)
   Secret Management: KeyVault - CLI - Public (Restricted Management)

6. Git Workflow: Trunk Based
   App Service: App Service - Portal - Private
   PostgreSQL: PostgreSQL - CLI - Private (Over VM SSH)
   Secret Management: KeyVault - Portal - Private Endpoint

7. Git Workflow: Trunk Based
   App Service: App Service - CLI - Private
   PostgreSQL: PostgreSQL - CLI - Private (Over VM SSH)
   Secret Management: KeyVault - Portal - Private Endpoint

8. Git Workflow: Feature Based
   App Service: App Service - CLI - Private
   PostgreSQL: PostgreSQL - Portal - Private (Over VM SSH)
   Secret Management: KeyVault - Portal - Service Endpoint

9. Git Workflow: Git-Flow
   App Service: App Service - Portal - Public
   PostgreSQL: PostgreSQL - CLI - Public (IP Restriction)
   Secret Management: KeyVault - CLI - Public (Restricted Management)

10. Git Workflow: Git-Flow
    App Service: App Service - Portal - Public
    PostgreSQL: PostgreSQL - Portal - Public (IP Restriction)
    Secret Management: KeyVault - CLI - Public (Restricted Management)

11. Git Workflow: Feature Based
    App Service: App Service - Portal - Private
    PostgreSQL: PostgreSQL - CLI - Private (Over VM SSH)
    Secret Management: KeyVault - Portal - Service Endpoint

12. Git Workflow: Trunk Based
    App Service: App Service - CLI - Private
    PostgreSQL: PostgreSQL - CLI - Private (Over VM SSH)
    Secret Management: KeyVault - CLI - Service Endpoint

13. Git Workflow: Feature Based
    App Service: App Service - Portal - Private

PostgreSQL: PostgreSQL - Portal - Private (Over VM SSH)
Secret Management: KeyVault - Portal - Service Endpoint

| Project Assignments

ⓘ **Projects will be assigned randomly during the class hour.**

Group ID	Student ID - Name Surname	Project Configuration
Group 1	Şilan Yalçınkaya- 21070001022 Esra Ece Güngüney- 21070001014	11
Group 2	Utku Derici - 21070001031 Melisa Şener - 23070006115 Berk Ateş - 22070006098	2
Group 3	Mustafa Berk Oğuz Ali Özmen - 19070006046 Mertcan Vural - 20070006028	7
Group 4	Sude Tuncu - 21070006024 Ezgi Aynal - 21070006021 Sudenur Arslan - 20070006029	1
Group 5	Rıza Toprak Orman - 21070006027 Lara Özduman - 22070006044 Defne Tekyiğit - 22070006021	12
Group 6	Naime Duru Kula - 22070001013 Ayşenur Tombul -21070001047 Can Haktan Unat - 22070006060	10
Group 7	İrem Şura Erkan - 22070001065 Başak Nur Korkut - 22070006024 Simay Ceylan - Y21070002043	6
Group 8	Mert Alp Barakazi - 21070006028 Levent Özada - 21070006052	5
Group 9	Mustafa KARACAN - 21070006012 Ege ERTÜRK - 2107000601 Serkan ACAR - 21070006009	13
Group 10	Doğukan YEŞİLKAYA - 22070006070 Enes ERTÜRK - 21070006025 Selçuk Suat SAYIN - 22070006017	4
Group 11	Anıl Abdullah İnce - 21070006006 Cavit Utku Tipici - 21070006043	9
Group 12	Ahmet Kemal Biliciler - 21070006001 Ozan Böce - 21070006020	8
Group 13	Dila Gençağa - 20070001059 Nazif Tosun - 20070006062	3