FILL IN : Lab 7

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Questions from the lab

*In the lab assignment, you’ll see several questions in red boxes. Paste those questions and their respective answers below. Make sure your answer is concise and well-formatted. You may submit this as e.g. a screenshot of a filled-out cell in a copy of the Notion document (e.g. with code, so that code formatting is maintained).*

**Q1 :** Write down at least 2 benefits of "Infrastructure as Code (IaC)”. Use online blogposts as your reference.

**A1 :**

1. Consistency and Repeatability
2. Faster and Automated Deployments

**Q2 :** Compute Start/Stop Cronjob schedule Give me a similar Schedule that starts the machines at 8.30 in the morning, except on Fridays when it should only start at 10 in the morning.

**A2 :**schedules:

compute\_start\_stop:

- action: start

state: enabled

trigger:

expression: 30 8 \* \* 1-4

time\_zone: UTC

type: cron

- action: start

state: enabled

trigger:

expression: 0 10 \* \* 5

time\_zone: UTC

type: cron

**Q3 :**

1. What is the other option next to type: cron for this “compute\_start\_stop” trigger.
2. Do we need to enter a time\_zone for the triggers?

**A3 :**

1. Type: recurrence (for schedule-based tasks).
2. No, not strictly required but recommended.

**Q4 :** Cleanup az ml output

idle\_time\_before\_shutdown: PT30M

idle\_time\_before\_shutdown\_minutes: 30

**last\_operation:** # Can be deleted – operation status, not needed for IaC

operation\_name: Create

operation\_status: Succeeded

operation\_time: '2025-05-26T23:28:13.089Z'

operation\_trigger: User

**location: germanywestcentral** # Optional – region is usually set elsewhere

name: cli-created-machine-ls

**network\_settings:** # Can be deleted – auto-generated network info

private\_ip\_address: 10.0.0.4

public\_ip\_address: 135.220.42.38

**os\_image\_metadata:** # Can be deleted – auto-generated OS info

current\_image\_version: 25.04.23

is\_latest\_os\_image\_version: false

latest\_image\_version: 25.04.07

**provisioning\_state: Succeeded** # Can be deleted – deployment status, not needed

**release\_quota\_on\_stop: false** # Can be deleted – runtime property

**resourceGroup: mlops-demo** # Optional – usually set in deployment, not in YAML

schedules:

compute\_start\_stop:

- action: stop

**provisioning\_state: Completed** # Can be deleted – schedule status, not needed

schedule\_id: 7ee63ae1-5005-48c0-981f-4df6d618e3d8 # Can be deleted – auto-generated

state: enabled

trigger:

expression: 00 20 \* \* 1,2,3,4,5

start\_time: '2024-05-14T11:00:00'

time\_zone: UTC

type: cron

**services:** # Can be deleted – auto-generated service endpoints

- display\_name: Jupyter

endpoint\_uri: https://cli-created-machine-ls.germanywestcentral.instances.azureml.ms/tree/

- display\_name: Jupyter Lab

endpoint\_uri: https://cli-created-machine-ls.germanywestcentral.instances.azureml.ms/lab

size: Standard\_E2ds\_v4

**ssh\_public\_access\_enabled: false** # Can be deleted – runtime property

**ssh\_settings:** # Can be deleted – often managed elsewhere

admin\_username: azureuser

ssh\_port: '50000'

**state: Running** # Can be deleted – current state, not needed for IaC

type: computeinstance

**A4 :**

Questions to answer for every lab

**What did you learn?**

*Fill in your three take aways that you learned during this lesson.*

1. S
2. S
3. S

**Givethree interesting exam questions about the contents of the lab and/or the theory**.

*Thinking about this will make sure you remember the key take-aways and important details better and longer.*

1. S
2. S
3. S

**Check the following:**

* I have made the entire lab assignment (be careful, some labs consist out of two or more Notion documents!).
* I have answered all the questions from the lab assignment.
* I have submitted my code as a zip file and/or as a link to a *public* Git repository.
* <For labs on Azure> I have shut down any resources that are in use, in order to avoid unexpected costs.