

Exam Preparation

Course Overview. Exam Logistics and Preparation



kubernetes

SoftUni Team
Technical Trainers



SoftUni



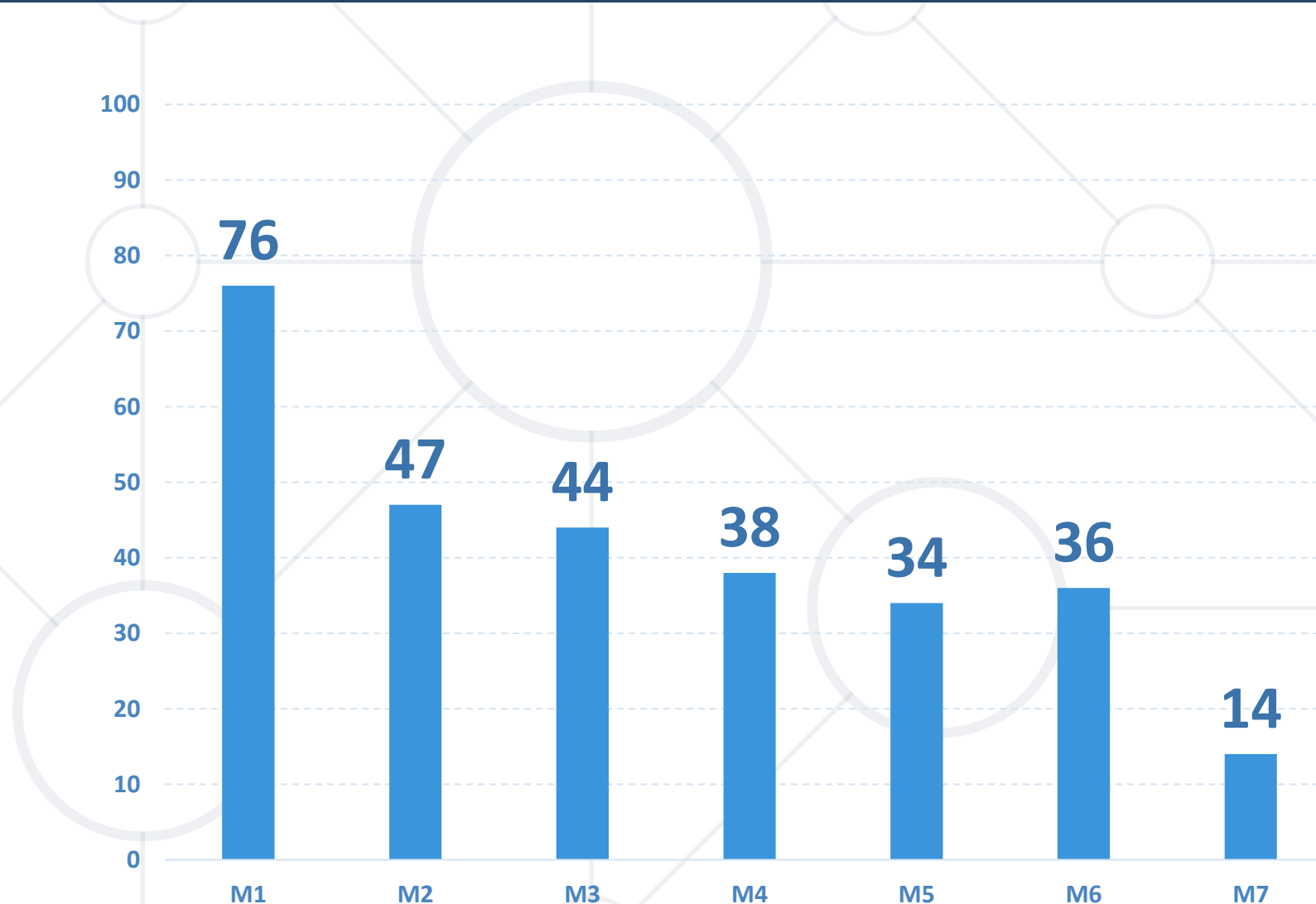
Software University

<https://softuni.bg>

sli.do
#Kubernetes

[https://www.facebook.com/groups](https://www.facebook.com/groups/KubernetesOctober2023)
/KubernetesOctober2023

Homework Progress



Submit **M7**
until 23:59:59
on **06.12.2023**

THIS IS OUR LAST MODULE

FIRST (REGULAR) EXAM IS ON
09.12.2023 (SATURDAY)



This Module (M8)

Table of Contents

1. Course Overview
2. Exam Logistics
3. Exam Preparation
 - Theoretical Exam Simulation
 - Practice Exam Simulation





Course Overview

A Short Summary

- **Core Concepts**

- Introduction to Kubernetes
- Kubernetes Architecture, API, and Tools
- Working with Basic Objects

- **Cluster Setup and Management**

- Basic Cluster Installation
- Manage and Upgrade Kubernetes Cluster
- Highly-available Kubernetes Clusters

- **Security and Policies**
 - Resource Requirements, Limits, and Quotas
 - Network Policies
 - Authentication, Authorization, and Admission Control
- **Storage and Persistence**
 - Volumes and Volume Claims
 - Stateful Sets
 - Configuration Maps and Secrets

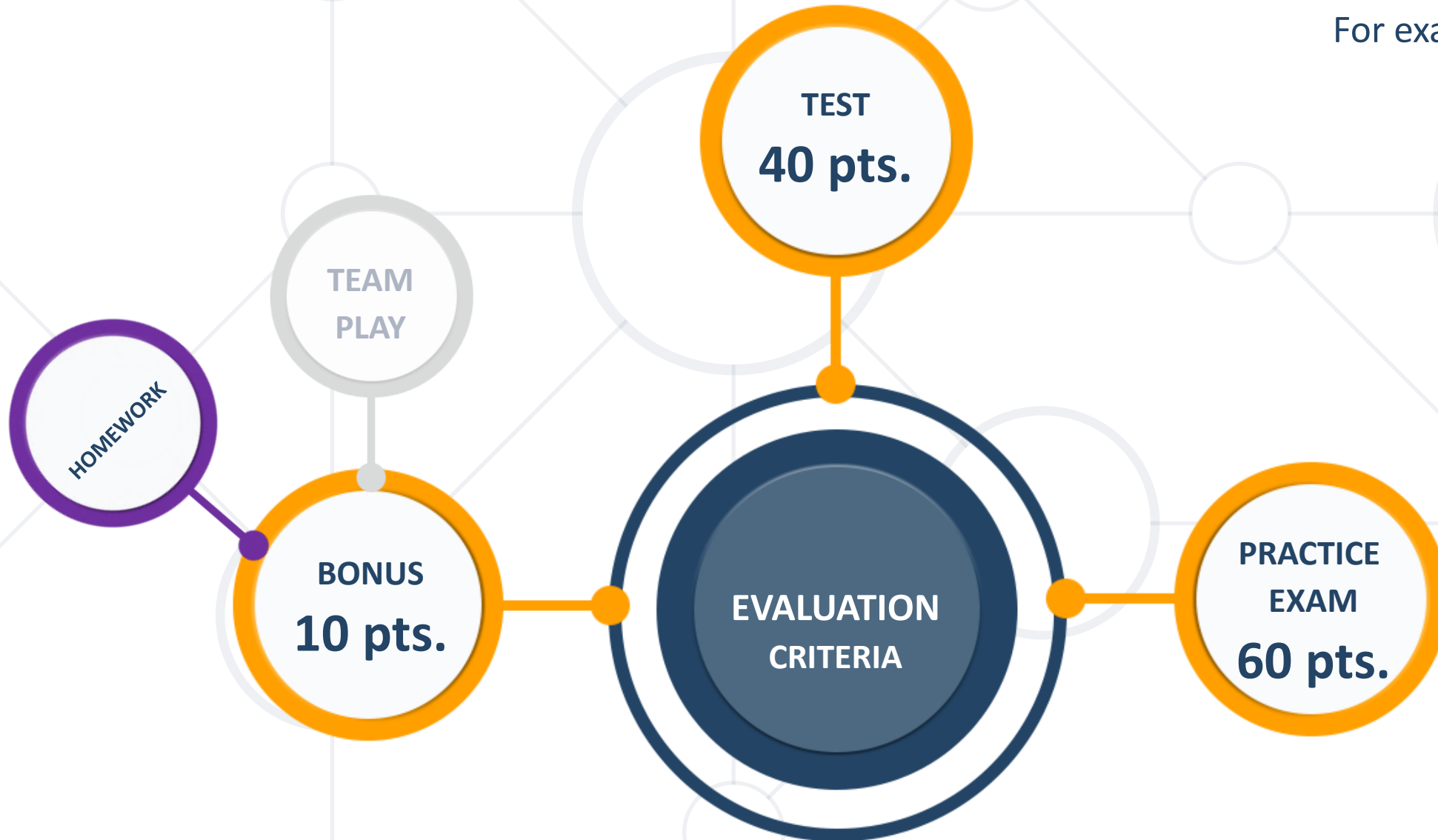
- **Advanced Concepts**
 - Multi-container Pods
 - Autoscaling and Scheduling
 - Daemon Sets, Jobs and Cron Jobs
 - Ingress Resources and Controllers
- **Observability and Troubleshooting**
 - Health and Status Checks
 - Logging and Troubleshooting

- **Templating Tools and Package Management**
 - Templating Tools
 - Getting Started with Helm
 - Creating Simple Charts



Exam Logistics

Scoring. Components. Next Steps



For example, if you score

Practice: **56**

Test: **37**

Total: **93**

Homework: **10**

New total: **103**



Final: **100**

- Manage and troubleshoot a set of clusters
- Deploy objects either standalone or as part of applications
- Troubleshoot applications as a whole or their components
- Additional tasks as per the exam requirements

(1) The **practice exam** will be held **remotely** in a **controlled environment**

(2) You will have to fill a **form** and **state** that you will **attend the exam**

(3) The exam duration is **4 hours** (between 09:00 and 13:00**)

- Focus on what was demonstrated during the lectures
- Go over the practice exercises at least once more
- Check the homework challenges and the published solutions
- Repeat the sample practice exam solution
- Experiment a little bit

30

minutes

20

single-choice
questions

10

multi-choice
questions

(1) The **test exam** will be held **remotely** in <https://quiz.softuni.bg>

(2) The exam can be started at any time between 09:00 and 13:29

** You are allowed to use any available source of information during the exam*

Practice (exam-like) questions:

<https://zahariev.pro/q/k8s>

- 30.11. – A form to sign up for the exam (active until 23:59:59 on 06.12)
- 07.12. – Exam environment details will be sent
- 08.12. – Exam environment **connectivity test** (after 19:30)
- 09.12. – **Exam time** 😊

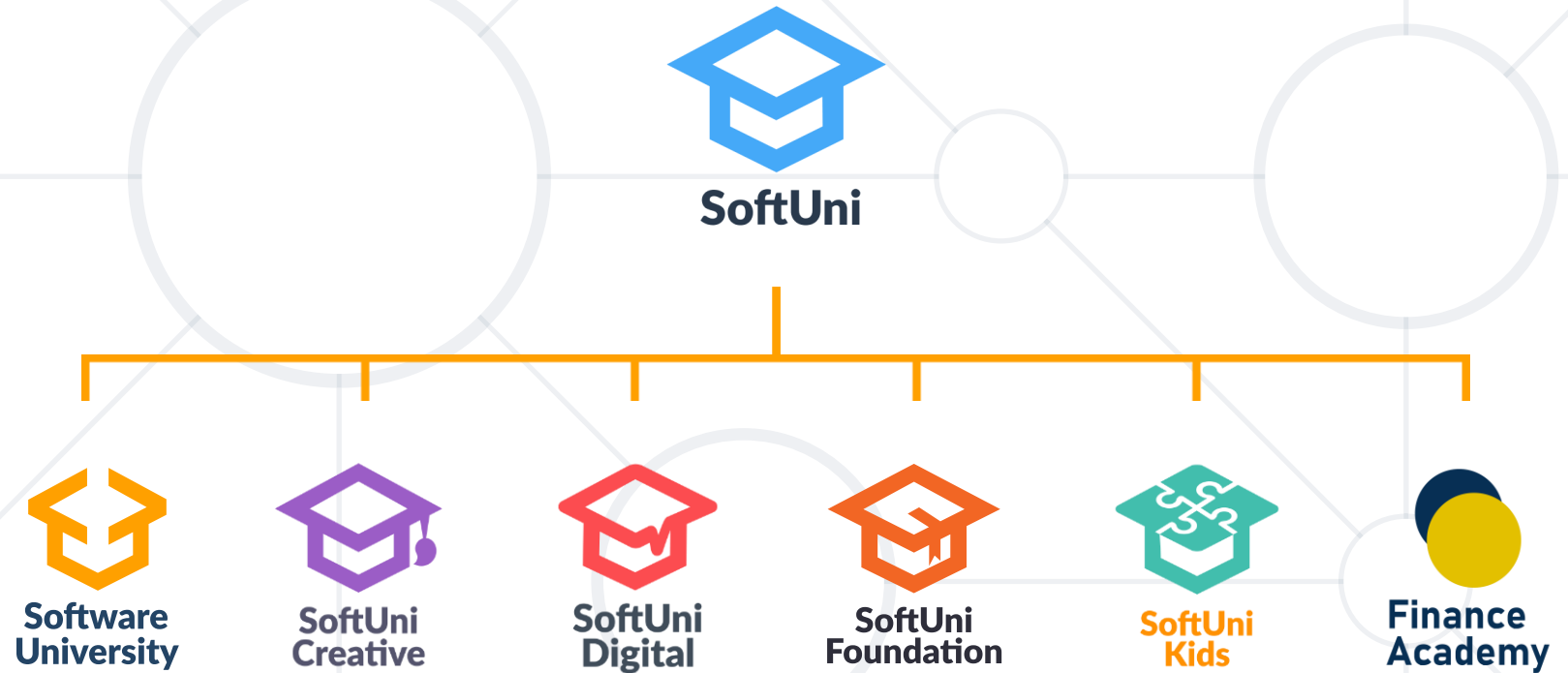
Exam(s) will take place between **9:00** and **13:30**



Exam Preparation

Let's Do It

Questions?



SoftUni Diamond Partners

**SUPER
HOSTING
.BG**



**Coca-Cola HBC
Bulgaria**

 **Flutter**TM
International

INDEAVR
Serving the high achievers



AMBITIONED

 **DRAFT
KINGS**



BOSCH

 **Postbank**
Решения за твоето утре

 **PHAR
VISION**



SmartIT

DXC
TECHNOLOGY

createX

- This course (slides, examples, demos, exercises, homework, documents, videos and other assets) is **copyrighted content**
- Unauthorized copy, reproduction or use is illegal
- © SoftUni – <https://about.softuni.bg/>
- © Software University – <https://softuni.bg>



- Software University – High-Quality Education, Profession and Job for Software Developers

- softuni.bg, about.softuni.bg

- Software University Foundation

- softuni.foundation

- Software University @ Facebook

- facebook.com/SoftwareUniversity

- Software University Forums

- forum.softuni.bg



Software University

