Milestone 3: System Setup

CSCI 311 – Spring 2025

*Please be sure that you complete all pages of this worksheet. Some sections may begin on new pages, so you may need to scroll past any blank space.*

# Background Material

*These questions relate to the background reading from the milestone instructions, and they are in the same order as the reading. As you work through the questions, fill in the answers to the following questions inside the provided boxes (1x1 tables). You do* ***not*** *need to write complete sentences for questions that ask for a short answer. Paragraph or bullet form is acceptable for questions that require an explanation or description.*

1. Native packages for Alpine Linux are installed from software \_\_\_\_\_\_\_\_\_\_.

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2. What goes in the /etc/apk/repositories file?

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3. What is needed to verify the signature on a repository package index?

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4. Which Alpine package contains the RSA public keys for the official repositories?

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5. What is term for the @testing in a repository line that reads @testing https://dl-cdn.alpinelinux.org/alpine/edge/testing?

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6. Into what directory do RSA public keys for software repositories go?

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7. What are the layers of the OSI Model?

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8. Which part of a Linux system contains the device driver for a wireless card?

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9. At what layer of the OSI Model is WiFi authentication performed?

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10. At what layer of the OSI Model does a DHCP client operate?

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11. What is the *default* WiFi authentication tool that ships with a stock distribution of Alpine Linux?

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12. What WiFi authentication software was written by Intel to improve efficiency?

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13. What tool listed in the readings can be used to manage both wired and wireless networking on a laptop that roams between both kinds of networks?

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*Please continue to the next page.*

# Alpine Linux Setup

*Replace the following image with the Alpine Linux setup photo specified in the milestone instructions.*



# Submission

*When you have completed this worksheet, export it to PDF format. Upload the PDF file as your Moodle submission for Milestone 3.*