Milestone 2: Alpine Linux

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. Alpine Linux is routinely used in what kind of containers?

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2. Package files in Alpine Linux end in what extension?

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3. True or False? Alpine Linux uses Android packages.

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4. What two security features are compiled into every Alpine Linux package?

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5. What kind of algorithm moves data around on a solid state drive to prevent a single region of flash memory from wearing out too quickly?

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6. When used in containers, how much space is needed for a minimal Alpine Linux installation?

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7. Which C library does Alpine Linux use?

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8. Which C library do most other Linux distributions use?

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9. What environment variable can be set to use the gcompat library? (Case is important!)

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10. What runtime initialization system and service manager do most Linux distributions use?

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11. What are 3 problems with the most popular runtime initialization system/service manager?

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12. What runtime initialization system and service manager does Alpine Linux use?

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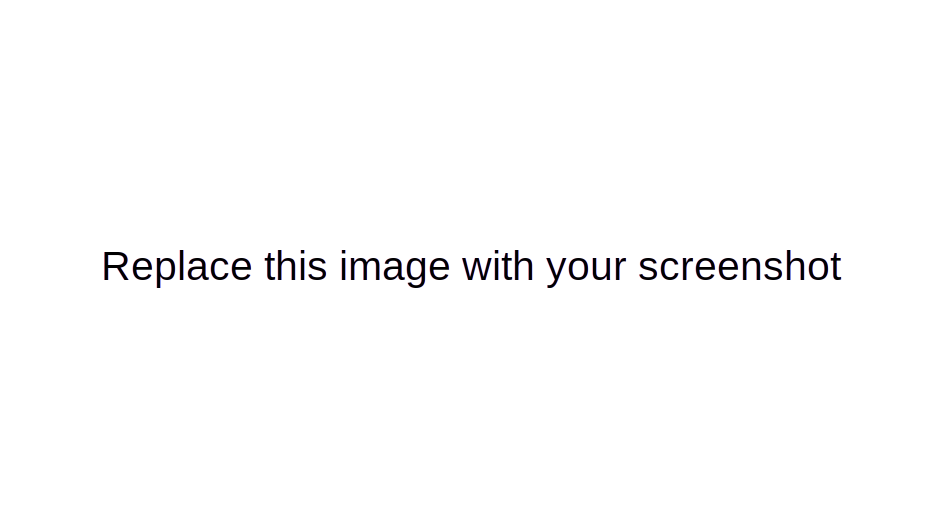
13. What are Alpine Linux’s 3 modes of operation?

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*Please continue to the next page.*

# Alpine Linux Installation

*Replace the following image with the Alpine Linux installation 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 2.*