# Practice Quiz: Troubleshooting & Debugging

**TOTAL POINTS 5**

1. Which of the following are valid strategies for recovery after encountering service failure? (Select all that apply.) **1 / 1 point**

   ☑ Switching to a secondary instance.

   > ✓ **Correct**
   >
   > Awesome! A quick way to recover is to have a secondary instance of the VM running your service that you can quickly switch to.

   ☐ Setting up monitoring and alerts.

   ☑ Restoring from backup.

   > ✓ **Correct**
   >
   > Nice job! As long as you've been keeping frequent backups, restoring a previous VM image will often get you where you need to be.

   ☑ Performing a rollback to a previous version.

   > ✓ **Correct**
   >
   > Woohoo! If the problem is related to recent changes or updates, rolling back to a previous working version of the service or supporting software will give the time to investigate further.

2. Which of the following concepts provide redundancy? (Select all that apply.)

☑ Having a secondary instance of a VM.

✓ **Correct**

Right on! If your primary VM instance running your service fails, having a secondary instance running in the background ready to take over can provide instant failover.

☑ Having a secondary Cloud vendor.

✓ **Correct**

You nailed it! Having a secondary Cloud service provider on hand with your data in case of the first provider having large-scale outages can provide redundancy for a worst-case scenario.
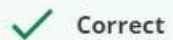
☐ Having automatic backups configured.

☐ Performing a rollback.

3. If you operate a service that stores any kind of data, what are some critical steps to ensure disaster recovery? (Select all that apply) **1 / 1 point**

- [x] Implement automated backups

  > ✓ **Correct**
  >
  > Nice work! As long as we have viable backup images, we can restore the VM running our service.

- [ ] Use redundant systems wherever possible

- [x] Test backups by restoring

  > ✓ **Correct**
  >
  > Excellent! It's important to know that our backup process is working correctly. It would not do to be in a recovery situation and not have backups.

- [ ] Never delete old backups

4. What is the correct term for packaged applications that are shipped with all needed libraries and dependencies, and allows **1 / 1 point** the application to run in isolation?

- ○ Rollback
- ○ Secondary instance
- ● Containers
- ○ Disk Image

✓ **Correct**

Great job! Containerization ensures that our software runs the same way every time.

5. Using a large variety of containerized applications can get complicated and messy. What are some important tips for solving problems when using containers? (Select all that apply)

☑ Use extensive logging in all parts

> ✓ **Correct**
>
> Great work! As long as we have the right logs in the right places, we can tell where our problems are.

☐ Reduce the number of containers

☐ Reuse container configurations

☑ Use test instances

> ✓ **Correct**
>
> Nice job! We should take every opportunity to test and retest that our configuration is working properly.