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|  | Oracle Database 12c Multitenant Support | Cloud Copy and standby clone | Performance issue in the customer support | PowerBroker and Key Authentication |
| Most Challenging | * Re-design the resource object to support container architecture and different database versions * Handle the dependency for the backup and clones in different container scope and handle shared resources | * Handle complicated procedures with lots of condition checking and parameter tuning * Handle error rollback and environment cleanup * (optional)Handle multithreading on the selected resource on server and storage (edit the system file) | * Triage the issue in the complicated environment to identify the root cause. * Cooperate with different teams (database, storage, server, customer) | * The late binding features with limited time for development and testing. * PowerBroker is a new tool required quick learning and deployment * How to securely store/manage the keys used for key authentication |
| What You Leaned | Design extendable resource class | modularize the handler for different resources | Cooperation  Narrow down the issue in complicated environment | Quick learn a tool  How to complete task in limited time |
| Most Interesting |  |  | Learn how customer uses the product  How to improve the product by fixing customer issues | How to quickly understand and scope the customers’ request |
| Hardest Bug |  |  | Performance reduction led by using the new replication technology in large system |  |
| Enjoyed Most |  |  |  |  |
| Conflicts with Teammates |  | Discussion on the tradeoff on the options to design the feature (shall we re-use the current back type or define new backup type for standby and cloud) | Discussion on use the old mechanism for better performance or use new technology to increase usability | Discussion on whether to manage the keys within the product |

I’m software engineer working for Oracle for 4 years. I’m working on the product called Snapshot Manager (SMU) which is the Java web application and service that provides the data protection solutions for oracle databases. I have two major roles or responsibilities: one is core product feature development mostly backend and API. And the other is to fix critical customer issue and design features and integration solutions based on customer request.

I joined the team when the product is in the beta phase and now it becomes more mature.