# Predix Certified Developer Exam Study Guide

Hello there –

Thank you for taking the time to read my blog on preparing for the Predix Cert. Below are questions I created, and then used, while watching the exam review video on predix.training.io. I hope they help you as you become a certified developer!

1. Make a mind map of Predix and its services.
2. Draw the Predix Architecture.
3. Who owns cloud foundry?
4. Who owns Predix cloud?
5. What is a service instance?
6. What is the command to create a Postgres service?
7. What are micro-services?
8. What command is used for deploying an app to Cloud Foundry?
9. Write an example manifest file.
10. What is a build pack and how is it used?
11. What command line flag is added to specify a build pack?
12. Does the command line or manifest file take precedence in a deployment?
13. What is UAA responsible for?
14. What is the difference between Authorization and Authentication?
15. Draw the external IDP model.
16. What does UAA stand for?
17. What is a scope?
18. What is an authority?
19. What are the grant types in UAA?
20. What is the TrustedIssuerId used for?
21. UAA URI vs TrustedIssuerId?
22. What is X-Identity\_Zone\_ID?

* *analytics calls it catalog tenant*

1. What are access control services?
2. write an ACS policy and example evaluation.
3. What is Predix asset used for?
4. What is Predix time series used for?
5. What aggregate functions can time series perform?
6. How are Predix time series grouped with query functions?
7. What is the Predix Blobstore used for?
8. Is the Predix Blobstore multi-tenancy?
9. Is Predix Blobstore s3 API compatible?
10. What is the Redis service used for?
11. What type of database is Redis?
12. What is RabbitMQ message queue used for?
13. What format is the asset data service written in?
14. Is asset model data structured?
15. What is used for uniqueness in the asset service?
16. How are assets uploaded into Predix?
17. What are the operators for GEL and what do they do?
18. Create 3 example queries on asset data based on the documentation examples.
19. What type of database is UAA implemented with?
20. Which database is best used for caching or quick storage in memory?
21. Which type of database is used in backend of analytics service?
22. What exchanges does RabbitMQ support?
23. What kind of database is time series?
24. What is the recommended type of protocol for ingesting data into time series service?
25. What does the time series do?
26. Why use the time series service?
27. How can I query data for in time series?
28. Write an example query API call.
29. What is the precision of the data in time series?
30. What does quality mean in time series data?
31. Can Edge analytics do high intensity computations for analytics?
32. What is the analytics catalog service used for?
33. What is the max file size for an artifact upload in analytics catalog service?
34. What is the max expanded file size in analytic catalog service?
35. What is analytics catalog taxonomy used for?
36. What are the REST API functionalities for the analytics catalog service?
37. What does the analytics runtime service do?
38. What is an analytic orchestration?
39. What is business process machine notation?
40. What is the analytics user interface service?
41. What can the user interface do?
42. Which Predix services require UAA?
43. Which languages are supported in Analytics development?
44. What is the Predix Seed?
45. What is a deck in Predix UI?
46. What is a card in Predix UI?
47. What is a widget in Predix UI?
48. What is a view in Predix UI?
49. How is context used in Predix UI?
50. Draw an example UI design using the Predix UI design pattern.
51. What is Predix Machine?
52. Is Predix Machine in the cloud?
53. Is Predix Machine hardware or software?
54. What does Predix machine do if there is a connectivity interruption?
55. Draw the environment of Predix Machine
56. What are industrial assets?
57. What is the machine gateway?
58. What is the cloud gateway?
59. What are the application services?
60. What is the mobile gateway?
61. What are data rivers?
62. What is OSGi Framework?
63. What is M2M?
64. What is H2M?
65. What is M2C?
66. How do the acronyms map to parts of Predix machine?
67. What is required on the OS for Predix machine to work?
68. What 3 protocols are supported in Machine Gateway?
69. What protocol has the best performance for river connectivity?
70. What are the 3 types of rivers in cloud gateway?
71. How is the cloud gateway secured?
72. How does the data flow in Predix Machine to the Cloud?
73. What is the hoover spill way and what is its job?
74. What is the edge processor used for?

If you have any questions on the questions, please leave a comment on the blog or post in the Predix Community forum for help.

Good luck!

Best,

Kaleb McKelvey