Develop Azure Compute Solutions

1.2 Implement Azure App Service Web Apps

- 1. What types of logs are available in Azure App Service?
- 2. How do you enable diagnostics logging via CLI?
- 3. How do you stream logs from App Service in real-time?
- 4. How do you integrate Application Insights with App Service?
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- 6. How do you query logs in Application Insights using KQL?

1. What types of logs are available in Azure App Service?

- Application Logs: stdout/stderr from app
- Web Server Logs: HTTP access logs
- Detailed Error Logs: 500-level errors
- Failed Request Tracing Logs (FREB): IIS-level tracing
- App Insights Logs: Telemetry (requests, exceptions, dependencies)

2. How do you enable diagnostics logging via CLI?

az webapp log config --name <app> --resource-group <rg> \
--application-logging filesystem --web-server-logging filesystem

Stores logs in local file system (Basic+) or blob storage.

3. How do you stream logs from App Service in real-time?

az webapp log tail --name <app> --resource-group <rg>

Streams stdout/stderr and App Logs live to console.

4. How do you integrate Application Insights with App Service?

az monitor app-insights component create --app <name> --location <region> --resource-group <rg> az webapp config appsettings set --name <app> --resource-group <rg> --settings APPINSIGHTS_INSTRUMENTATIONKEY=<key>

.NET apps may auto-integrate; others need SDK.

5. What's the difference between App Service logs and App Insights?

- App Service Logs: Platform logs (stdout, web server logs)
- App Insights: Full telemetry—requests, exceptions, dependencies, metrics, traces

6. How do you query logs in Application Insights using KQL?

Use Log Analytics (or Logs tab in App Insights):

Example query:

requests

| where timestamp > ago(1h)

| summarize count() by resultCode