



vighnesh-
notes

vighneshnaik.com

linkedin.com/in/
vighneshnaik6

WHAT IS AZ-400?



The AZ-400 exam validates your ability to **design and implement** Microsoft DevOps solutions.



It's intended for DevOps engineers who combine **people, process, and technology** to deliver **value** continuously.

ROLE EXPECTATIONS



Collaborate between development and operations



Drive continuous improvement



Automate to deliver faster and safer



Build reliable, resilient systems



Ensure security and compliance



Provide observability and actionable insights

AT-A-GLANCE EXAM FACTS



Exam Code: AZ-400



Passing Score: 700



Level: Intermediate/Advanced



Common Question Formats:
Multiple choice, Case study,
Drag-and-drop (and more)



Duration: 120 minutes



Languages: English, Japanese,
Chinese, Korean, French, German,
Spanish

SKILLS OUTLINE & WEIGHTS



1

Processes and communication
10-15%

2

Source control
10-15%

3

Build and release pipelines
50-55%

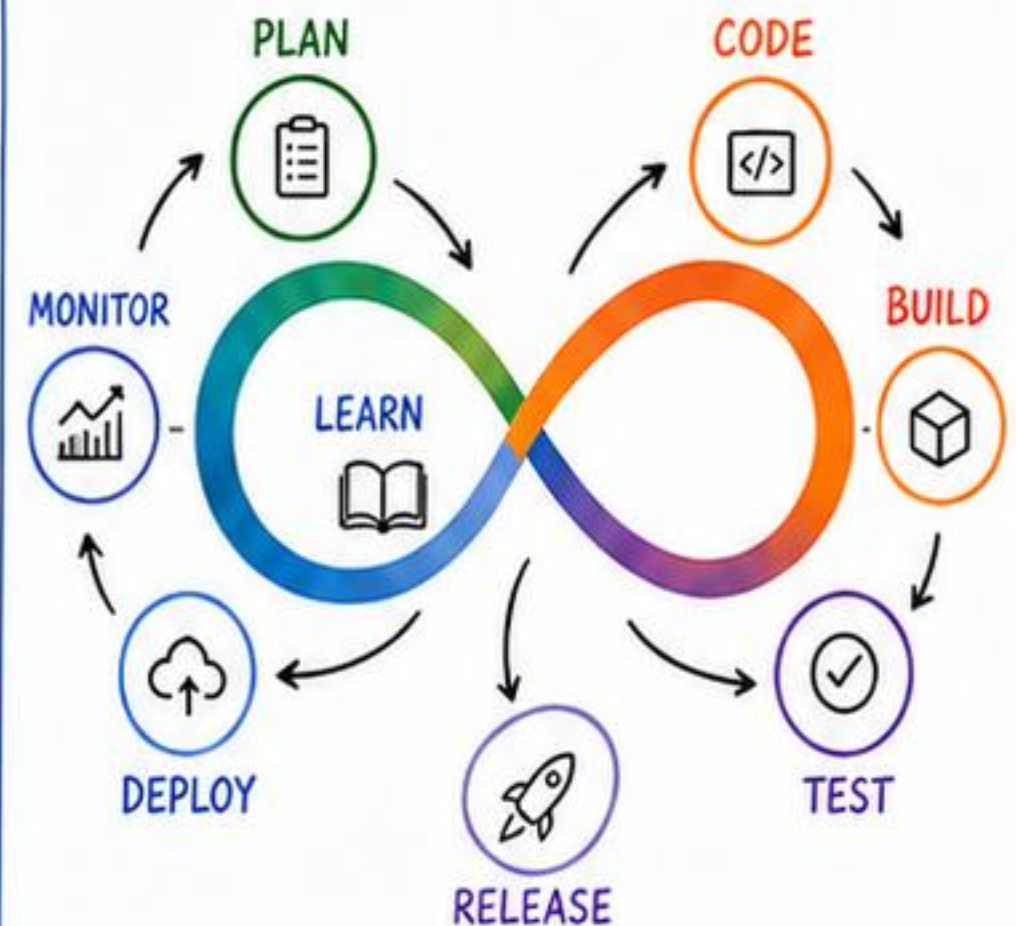
4

Security and compliance
10-15%

5

Instrumentation strategy
5-10%

THE DEVOPS LOOP



HOW TO USE THIS SERIES

- ✓ This series breaks down the AZ-400 exam domain by domain.
- ✓ Each page focuses on the key topics, concepts, and exam tips you need to know.
- ✓ Pipelines is the largest exam area (~50-55%), so it's split across two pages (4 & 5).



YOUR STUDY STRATEGY

- ✓ Spend ~50% of your study time on Build & Release Pipelines.
- ✓ Practice YAML, GitHub Actions and Azure Pipelines.
- ✓ Understand deployment strategies, environments, approvals & checks.
- ✓ Know IaC (Bicep/Terraform), secrets, and configuration management.
- ✓ Don't skip monitoring, traceability and feedback loops.

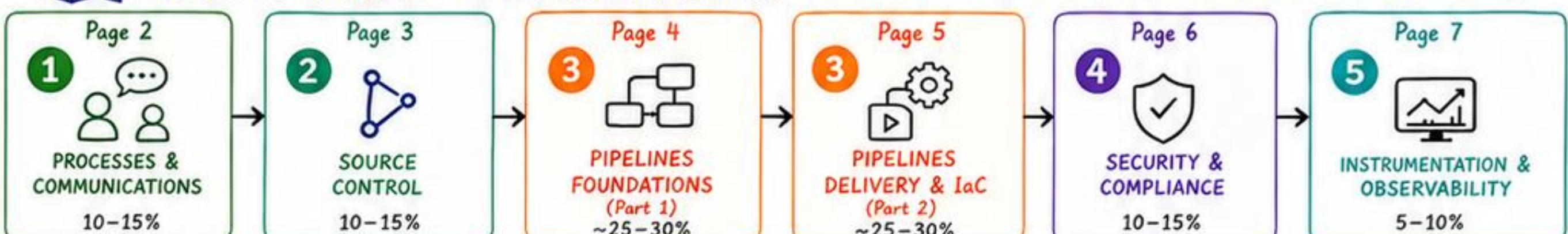


THE DEVOPS MINDSET

- ✓ Automate everything possible.
- ✓ Secure by design.
- ✓ Measure what matters.
- ✓ Make small, reversible changes.
- ✓ Collaborate and communicate continuously.



WHAT'S NEXT? YOUR STUDY ROADMAP



Stay consistent, practice hands-on, and think like a DevOps engineer.
Build. Test. Learn. Repeat.



You've got this!



AZ-400 DevOps Engineer – Visual Notes

Part 2: Processes & Communications

2/7



vighnesh-notes

vighneshnaik.com
linkedin.com/in/vighneshnaik6

1 WHY THIS DOMAIN MATTERS



Great DevOps starts with clear communication, visible work, and traceable flow.

- ✓ Well-defined processes and tools align teams, reduce waste, and create predictable outcomes.
- ✓ This domain ensures everyone knows what to build, why, and how it's progressing.

COVERS

- ✓ Planning and tracking work
- ✓ Collaboration and communication
- ✓ Traceability across the delivery lifecycle
- ✓ Documentation and knowledge sharing
- ✓ Metrics, reporting, and integrations



CORE MINDSET

Make work visible.
Keep teams aligned.
Measure flow.
Continuously communicate.
Improve together.

2 PLAN AND TRACK WORK 10-15%



GitHub Issues

- Capture ideas, tasks, bugs, and epics
- Use labels, milestones, assignees, and templates



GitHub Projects

- Visualize work on boards or tables
- Automate with workflows and custom fields



Azure Boards

- Work items: Epic, Feature, User Story, Bug, Task
- Backlogs, sprints, sprint planning



Backlogs & Boards

- Prioritize work in product backlog
- Track progress on Kanban or Scrum boards



Queries & Dashboards

- Build queries (WQL, filters) to find work
- Dashboards for team and portfolio visibility

3 COLLABORATION



GitHub Discussions

Discuss ideas, Q&A, announcements



Pull Request Conversations

Inline comments, reviews, approvals



Notifications

Stay informed with mentions, subscriptions, and alerts

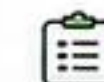


Microsoft Teams Integration

Link repos, get PR/build notifications in Teams, chatops workflows

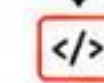
4 END-TO-END TRACEABILITY

Link everything to see the full picture.



Plan

Epics, Features, User Stories, Tasks



Code

Commits, Branches, Pull Requests



Build

CI builds, pipeline runs, artifacts



Test

Automated & manual tests, test results



Release

Releases, approvals, environments



Production

Actual changes, work items, incidents

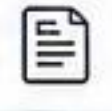
Traceability + Visibility + Accountability

5 DOCUMENTATION & KNOWLEDGE SHARING



Wikis

Centralize how-tos, architecture, runbooks, and team knowledge



Release Notes

Summarize what changed, why, and impact



Markdown

Simple, portable, works everywhere (GitHub, Azure DevOps)



API Documentation

Document APIs clearly for consumers



Mermaid Diagrams

Create flowcharts, sequence diagrams, architectures



OpenAPI / Swagger

Standardize and share API contracts



Autogenerate docs from code comments and OpenAPI specs to keep documentation accurate and up to date.



METRICS THAT MATTER



Lead Time

Time from work item creation to delivery



Cycle Time

Time from start of work to completion



Deployment Frequency

How often you successfully deploy to production



Change Failure Rate

% of deployments that cause a failure



Mean Time to Restore (MTTR)

Time to restore service after a failure



Dashboard Reporting

Visualize trends, monitor health, drive continuous improvement

7 INTEGRATIONS & AUTOMATION



Webhooks

Send real-time events to external systems



Service Hooks

Trigger actions on events (builds, PRs, work items)



Teams & ChatOps

Automate workflows, notify, and act from chat



Email Notifications

Keep stakeholders informed



Jira / ServiceNow

Integrate ITSM & ALM processes

8 EXAM TIPS / COMMON BEST-ANSWER PATTERNS



Focus on the outcome. Choose options that improve visibility, alignment, and traceability.



Pick the MOST comprehensive answer (end-to-end visibility, automation, reporting).



Favor built-in platform capabilities over custom solutions.



Security + compliance: Use role-based access, audit trails, approvals.



Automate status updates and notifications.



Look for answers that reduce manual work and improve collaboration.



Integrations that connect planning → code → build → test → test → release → best!



Communicate early and often—make information easy to find.



1. Connect planning to delivery. Everything links.



2. Measure flow, not just output.



3. Document continuously. Keep it current.



4. Automate reporting and notifications. Save time.



5. Collaborate early and empower teams.



Stay consistent, practice hands-on, and think like a DevOps engineer.
Build. Test. Learn. Repeat.

Part 3: Source Control Strategy



SOURCE CONTROL (10-15%)

Design and implement a source control strategy that supports collaboration, quality, and secure delivery.



vighnesh-
notes

vighneshnaik.com

linkedin.com/in/
vighneshnaik6

vighneshnaik6

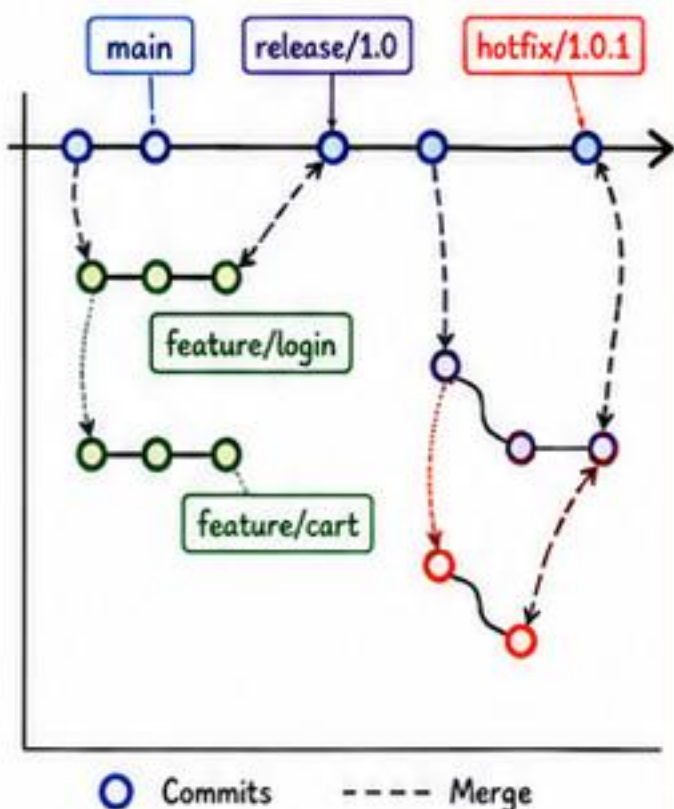
WHAT YOU'LL DO

- Use Git effectively
- Protect code and branches
- Organize repos and scale for teams
- Recover from issues
- Keep history clean and safe



1 BRANCHING STRATEGIES

- Trunk-based development**
Short-lived branches, frequent commits, continuous integration.
- Feature branches**
Isolate work, open PR early, merge small & often.
- Release branches**
Stabilize for release, bug fixes only.
- Hotfix branches**
Urgent fixes from main, merge back quickly.



2 PULL REQUEST PROTECTION

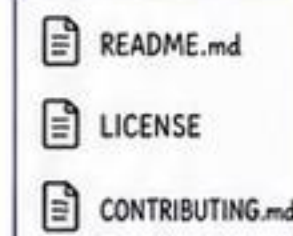
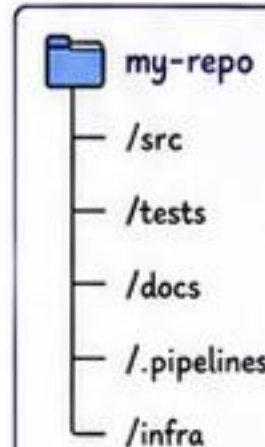
- Required reviewers**
Ensure code is reviewed.
- Status checks**
All checks must pass.
- Build validation**
CI build must succeed.
- Branch policies**
Enforce rules consistently.
- Branch protection rules**
Lock down important branches.
- Restrict direct pushes**
Changes only via pull requests.

PROTECTED MAIN



3 REPOSITORY MANAGEMENT

- Permissions**
Least privilege access.
- Tags**
Mark important points (v1.0.0).
- Releases**
Package and publish deliverables.
- Access control**
Teams, roles, scopes.
- Repo organization**
Consistent structure, README, templates.



4 LARGE REPOS AND FILES

- Git LFS**
Store large files outside Git history.
- git-fat (legacy)**
Older tool for large file management.
- Scalar (Microsoft tool)**
Optimize large repos for better performance.

LARGE FILES WITH GIT LFS



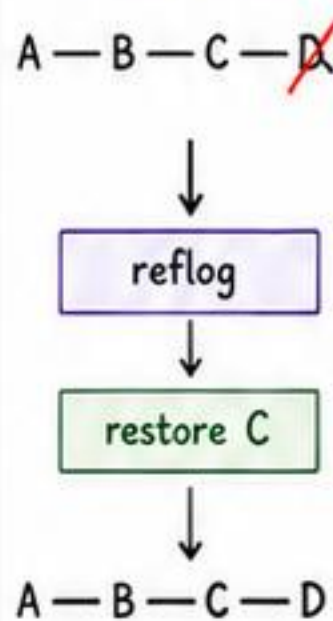
Monorepo vs Multi-repo

- | Monorepo | Multi-repo |
|----------------------|-----------------------|
| ✓ Simplified commits | ✓ Clear ownership |
| ✓ Shared changes | ✓ Independent scaling |
| ✓ Harder boundaries | ✗ More overhead |
| ✗ Slower at scale | ✗ Cross-repo changes |

5 GIT RECOVERY ESSENTIALS

- revert**
Create a new commit that undoes changes.
- restore**
Discard local changes in working directory.
- reset**
Move HEAD (carefully!). --soft | mixed | hard
- reflog**
Recover lost commits by viewing HEAD history.
- cherry-pick**
Apply a specific commit onto current branch.
- rebase**
Reapply commits on top of another base.
- merge**
Combine histories, keep both paths.

EXAMPLE: RECOVER A LOST COMMIT



6 SECRET INCIDENTS

- Remove exposed data from history**
Use BFG or filter-repo.
- Rotate credentials**
Invalidate and regenerate immediately.
- Prevent recurrence**
Scan + policy + training.

TOOLS



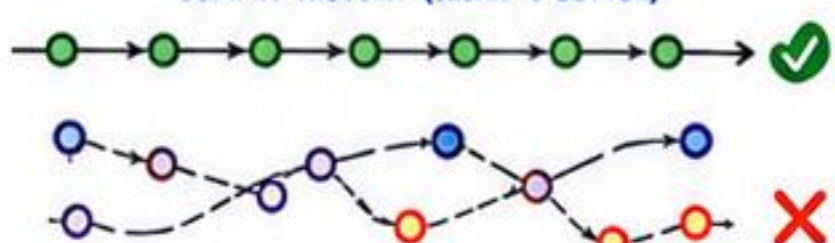
7 COLLABORATION PATTERNS AND CLEAN COMMIT HABITS

- Small, focused commits**
One change per commit.
- Clear commit messages**
Explain the what and why.
- Pull early, push often**
Stay up to date.
- Open PRs early**
Get feedback fast.
- Resolve conflicts early**
Communicate and sync.

GOOD COMMIT MESSAGE

feat: add login validation
Add email format and password length validation.
Fixes #123

COMMIT HISTORY (CLEAN IS BETTER)



8 EXAM TIPS / CHOOSE-THE-BEST-BRANCH-STRATEGY

Think about the scenario:

- Team size & experience
- Deployment frequency
- Need for traceability
- Release cadence
- Compliance needs
- Repo size & complexity

QUICK GUIDE

Small team, high velocity	Trunk-based
Medium team, features in flight	Feature branches
Stable releases required	Release branches
Urgent production fix	Hotfix branches
Multiple products, big team	Multi-repo
Shared platform, many teams	Monorepo

BEST PRACTICES (RECAP)

- Protect main**
Branch policies, no direct pushes.
- Review changes**
Use PRs, reviewers, and status checks.
- Keep history clean**
Small commits, clear messages, no secrets.
- Scale repos wisely**
Right strategy, tools, and structure.
- Rotate leaked secrets**
Remove from history, rotate, prevent repeat.



vighnesh-notes
vighneshnaik.com
linkedin.com/in/vighneshnaik6

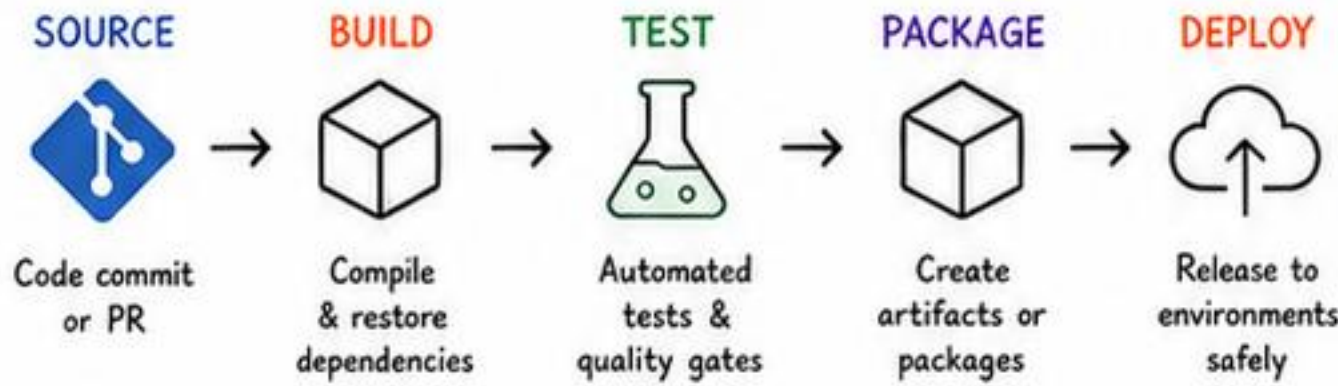
1 WHY PIPELINES MATTER

- Automate delivery end-to-end from code to value.
- Increase quality, speed, and repeatability.
- Enable collaboration and feedback loops.
- Key to DevOps culture and continuous improvement.

WEIGHTING REMINDER



2 CI/CD FLOW OVERVIEW



- Automate everything you can
- Secure by design
- Measure what matters
- Make changes small & reversible
- Collaborate & communicate continuously

SAMPLE PIPELINE (CONCEPTUAL)

- trigger: push
- stages:
 - build
 - test
 - package
 - deploy-dev
 - deploy-prod

Tip: Keep pipelines fast, reliable, and easy to understand!

3 YAML FOUNDATIONS

```
trigger:
  branches:
    include:
      - main
stages:
- stage: Build
  jobs:
  - job: BuildJob
    steps:
    - task: UseDotNet@2
      inputs:
        packageType: sdk
        version: '8.x'
    - script: dotnet build
- stage: Test
  dependsOn: Build
  jobs:
  - job: TestJob
    steps:
    - script: dotnet test
      displayName: Run tests
```

- Triggers**
When the pipeline runs (push, PR, schedule, etc.)
- Stages**
Group of jobs with a goal
- Jobs**
Run on an agent (parallel or sequential)
- Steps**
Ordered set of actions
- Tasks**
Prebuilt or custom operations
- Templates**
Reusable YAML snippets
- Parameters**
Input values at queue time
- Variables**
Values used in the pipeline
- Variable Groups**
Group & share variables securely
- Conditions**
Run steps/jobs when expressions are true
- Dependencies**
Control order & access outputs

4 GITHUB ACTIONS vs AZURE PIPELINES

WHAT THEY ARE



CI/CD service deeply integrated with GitHub.



Microsoft service for end-to-end CI/CD across any platform.

COMMON SIMILARITIES

- YAML-driven pipelines
- Support for builds, tests, deploys
- Artifacts & packages
- Secrets management
- Environments & approvals
- Extensible with tasks/actions
- Concurrency & caching capabilities

WHEN EACH IS USED

GitHub Actions

- Code hosted on GitHub
- Simple to medium pipelines
- Strong ecosystem of actions
- GitHub-first workflows

Azure Pipelines

- Code in Azure Repos, GitHub, or other Git
- Complex/enterprise scenarios
- Deep Azure integrations
- Advanced approvals & compliance needs

5 RUNNERS AND AGENTS

- MICROSOFT-HOSTED**
- Managed by Microsoft
 - Always up to date
 - Easy & fast to use
 - Public network
 - Good for most scenarios

- SELF-HOSTED**
- You manage & maintain
 - Custom tools & configs
 - Private network access
 - Scale as you need
 - More responsibility

KEY CONSIDERATIONS

- Networking (public vs private)
- Security & secrets
- Maintenance & patching
- Cost & scale
- Availability & reliability

6 PACKAGES AND ARTIFACTS

WHERE TO STORE



GitHub Packages
Registry for containers, NuGet, npm, Maven, Helm, and more.



Azure Artifacts
Feeds for NuGet, Maven, Python, npm, Universal, and more.

FEEDS & VIEWS

- Private & public feeds
- Upstream sources (proxy NuGet.org, PyPI.org, etc.)
- Views for curated subsets (Release, Preview, Internal)

ARTIFACT VERSIONING

Immutability + clear naming = traceability & rollbacks

VERSIONING BEST PRACTICES

- SemVer (1.2.3)
- CalVer (2025.05.12)

7 TESTING INSIDE PIPELINES

- Unit Tests**
Fast feedback on code (c#, xUnit, NUnit, pytest)
- Integration Tests**
Validate components working together
- UI / End-to-End Tests**
Validate user journeys (e.g., Playwright, Cypress, Selenium)
- Load Tests**
Validate performance & scale (e.g., k6, JMeter, Azure Load Testing)
- Code Coverage**
Measure test coverage (e.g., Coverlet, JaCoCo)
- Quality Gates**
Fail the pipeline if thresholds are not met

QUALITY GATE EXAMPLE



- Min coverage ≥ 80%
- 0 critical vulnerabilities
- All tests passed
- No high severity issues

Fail early. Fix fast. Ship with confidence.

8 PIPELINE HEALTH

- Floky Tests**
Stabilize tests, quarantine, and track failures.
- Caching**
Cache dependencies & tools to speed up builds.
- Performance**
Profile & optimize slow steps, parallelize where possible
- Reliability**
Tests transient failures, use idempotent steps
- Retention**
Keep logs, artifacts, and releases for the right time
- Optimization**
Limit parallel runs, cancel superseded runs
- Optimization**
Right-size agents, reuse work, avoid redoing work.

QUICK WINS

- Cache restore early
- Run tests in parallel
- Use shallow clones
- Publish only what's needed
- Clean up artifacts

9 EXAM CLUES & COMMON SCENARIOS

- SPEED UP Pipeline**
Use caching, parallel jobs, right agent, avoid unnecessary steps.
- SECURE Pipeline**
Use secret/variable groups, limit privilege, secure tasks.
- RELIABLE Pipeline**
Handle floky tests, retries, timeouts, idempotent tasks.
- REDUCE COSTS**
Use self-hosted runners, right agent size, retention policies.
- TRACEABILITY**
Use versioned artifacts, releases, metadata, logging.

SCENARIO EXAMPLES

- Design a pipeline for multi-stage deployment with approvals.
- Choose between GitHub Actions and Azure Pipelines.
- Configure variable groups and secrets securely.
- Improve pipeline performance and reliability.
- Implement testing and quality gates.

Read the scenario → Identify goals & constraints
Apply best practices → Choose the best option

Stay consistent, practice hands-on, and think like a DevOps engineer.
Build. Test. Automate. Repeat. You've got this!

Keep smart. Practice hands-on.
You've got the skills — go own it!

You've got this!

DOMAIN 3 (Part 2): Build and Release Pipelines

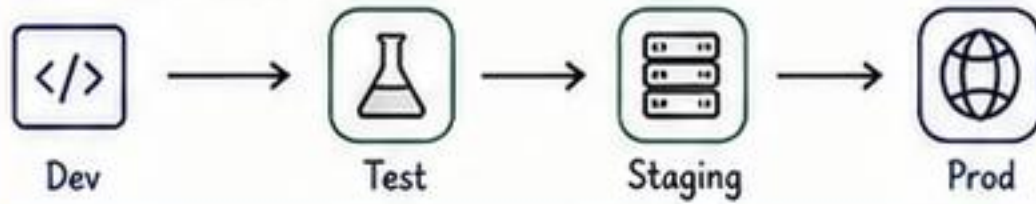


**vighnesh-
notes**

vighneshnaik.com
linkedin.com/in/vighneshnaik6

1 ENVIRONMENTS, APPROVALS, CHECKS, GATES & DEPLOYMENT HISTORY

Environment Flow



Approvals

- Manual approvals
- Required reviewers
- Email & Teams notifications

Checks

- Pre-deployment checks
- Query & REST checks
- Business hours checks
- Invoke Azure Function

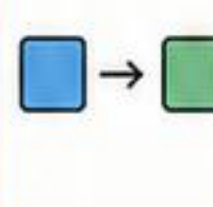
Gates

- Quality gates
- Azure Monitor alerts
- Work item state
- Test results

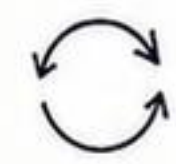
Deployment History

- View audit trail, logs, artifacts, approvals & changes
- Roll back to a previous successful release

2 DEPLOYMENT STRATEGIES & TECHNIQUES



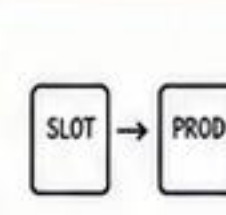
Blue-Green
Swap traffic between prod (blue) & green environment.



Rolling Updates
Update instances in batches to keep service available.



Canary
Release to a small subset of users first.



Deployment Slots / Swaps (App Service)
Deploy to slot, test, then swap with production.



Ring / Progressive Exposure
Expand release across rings (internal -> external).



Feature Flags
Toggle features on/off without new deployment.

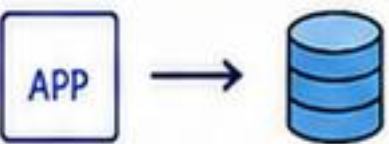


A/B Testing
Route traffic to A or B versions and compare.



Hotfix & Rollback
Quick fix via hotfix branch or roll back to last good release.

3 DEPENDENCIES & RELEASE ORCHESTRATION



App + Database Coordination

Deploy app and DB changes together safely.

Dependency Order

Deploy in correct sequence (DB -> API -> Web / Clients).

Zero-Downtime Thinking

Design releases to avoid downtime & data loss.

Orchestration Patterns

- Single pipeline with stages
- Multi-pipeline with resource dependencies
- Release gates to control flow
- Artifacts, variables & output variables for coordination
- Use Environments & approvals for critical dependencies

4 INFRASTRUCTURE AS CODE (IaC)



ARM Templates
Native Azure templates (JSON) for resources.



Azure Automation State Configuration
Automate OS configuration (DSC) for consistency.



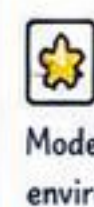
Bicep (Preferred)
Declarative language for simpler, reusable Azure IaC.



Azure Machine Configuration
Manage VMs/VMSS images and OS settings at scale.



Terraform (Open Source)
Multi-cloud IaC tool. Works with Azure.



Azure Deployment Environments
Model and manage target environments as code.

Treat infrastructure like code: version, review, test & deploy automatically.

5 CONFIGURATION & SECRET HANDLING IN DELIVERY



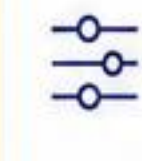
Variable Groups
Centralize variables & secrets for reuse across pipelines.



Key Vault Integration
Store secrets in Azure Key Vault and reference in pipelines.



Library & Template Variables
Share configuration values across pipelines.



Parameterization
Use parameters in templates for environment-specific values.

6 SAFE RELEASE PRACTICES



Small Batches
Release gradually to reduce risk.



Automated Validation
Run automated tests, scans, linting, and smoke tests.



Post-Deployment Verification
Health checks, synthetic tests, monitoring alerts.



Observability Hooks
Enable logs, metrics, traces from day one.

7 MAINTENANCE & CONTINUOUS IMPROVEMENT



Classic to YAML Migration
Move from Classic pipelines to YAML for flexibility and version control.



Template Reuse
Use templates & component templates to avoid copy-paste & ensure consistency.



Standardization
Standardize stages, tasks, naming, variables and environments.



Cost & Time Optimization
Use parallel jobs, caching, self-hosted agents, and right-size resources.

8 EXAM TIPS / BEST-ANSWER PATTERNS



Always Read the Scenario Carefully
Identify the goal (speed, safety, cost, compliance).



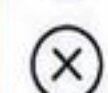
Think Azure-Native First
Prefer Azure DevOps, Azure Services & managed options.



Security First
Use least privilege, approvals, checks, and secret management.



Choose the Best Fit
Consider trade-offs: speed vs risk, cost vs scale.



YAML > Classic
Remove incorrect or not-ideal options first.



YAML > Classic
Choose YAML pipelines for flexibility, versioning & CI/CD best practices.

QUICK RECAP – DOMAIN 3 (PART 2)










Control releases with approvals, checks & gates

Choose the right deployment strategy

Orchestrate dependencies safely

Use IaC for consistent & repeatable infra

Manage config & secrets securely

Validate, monitor & learn continuously

Optimize & standardize pipelines



DOMAIN 4: SECURITY AND COMPLIANCE (10-15%)

1 SECURITY MINDSET



Least privilege

Grant only the access that's needed.



Secure by design

Build security in from the start.



Defense in depth

Use multiple layers of protection.



Auditability

Ensure actions are traceable and reviewable.

2 IDENTITY CHOICES



Azure AD / Microsoft Entra

Central identity & access management.



Managed Identities

Apps authenticate to Azure without storing credentials.



System-assigned

Tied to one resource's lifecycle.



User-assigned

Reusable across resources.



Service Principals

App identities for automation.



Service Connections

Secure links to external systems.

3 GITHUB AND AZURE DEVOPS AUTHENTICATION



GitHub Apps

Recommended for first-party integrations.



GITHUB_TOKEN

Short-lived token for workflow jobs; scoped to permissions.



Personal Access Tokens (PATs)

Use sparingly; store securely.



Access Levels

Repo, Org, Enterprise.



Teams & Groups

Manage access at scale; use least privilege.

4 SECRETS MANAGEMENT



Azure Key Vault

Store secrets, keys, and certificates securely.



Secure Files

Upload and use encrypted files in pipelines.



Variable Groups

Centralize variables; link to Key Vault for secrets.



Secret Masking

Prevent secrets from appearing in logs.



Avoid hard-coded secrets

Never commit secrets to code.

5 SECRETLESS CLOUD ACCESS



Workload Identity Federation (OIDC)

Eliminate long-lived secrets for cloud access.



GitHub / Azure DevOps



OIDC Token (Short-lived)



Azure / Cloud Resource

- ✓ Trust relationship via OIDC
- ✓ Short-lived tokens
- ✓ Scoped to specific resources
- ✓ Revocable and auditable

6 SECURE PIPELINES



Permissions

Use least privilege for service connections, agents, and tasks.



Log Hygiene

Mask secrets and avoid echoing sensitive values.



Prevent leakage

Secure scripts, artifacts, and environment variables.



Approvals & gates

Manual approvals for risky changes.



Segregation of duties

Separate build, release, and approval roles.

7 SECURITY SCANNING



Dependency scanning

Find vulnerable open-source dependencies.



Secret scanning

Detect leaked secrets and keys.



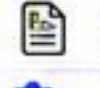
SAST

Static analysis of source code.



Container scanning

Scan container images for vulnerabilities.



License scanning

Detect license risks and compliance issues.



CodeQL

Semantic code analysis.



Dependabot

Automated dependency updates & alerts.



Defender for Cloud DevOps Security

End-to-end DevSecOps posture.



GitHub Advanced Security

SAST, secret scanning, CodeQL, and more.

8 COMPLIANCE & GOVERNANCE REMINDERS



Know compliance requirements

(e.g., GDPR, HIPAA, SOC 2, ISO).



Apply policies as code

Use Azure Policy, GitHub rulesets, and branch protection.



Data protection

Encrypt in transit and at rest.



Retention & auditing

Keep logs, artifacts, and audit trails.



Access reviews

Periodically review and revoke unneeded access.



Document & report

Maintain evidence and compliance documentation.

9 EXAM TIPS

- ★ Know identity options and when to use each.
- ★ Understand secretless access with OIDC.
- ★ Choose the right authentication method (GitHub Apps > PATs).
- ★ Secure your pipelines: permissions, approvals, masking.
- ★ Know security scanning tools and their purposes.
- ★ Auditability and governance are key themes.



Stay consistent, practice hands-on, and think like a DevOps engineer.

Build. Test. Learn. Repeat.



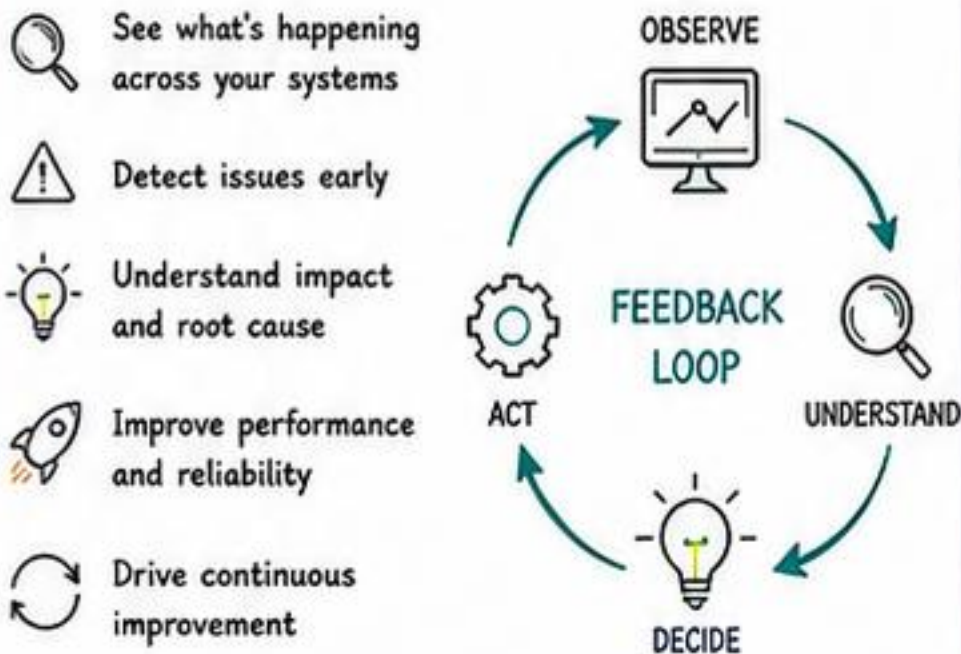
You've got this!





vighnesh-notes
vighneshnaik.com
linkedin.com/in/vighneshnaik6
vighneshnaik6

1 WHY OBSERVABILITY MATTERS / FEEDBACK LOOP



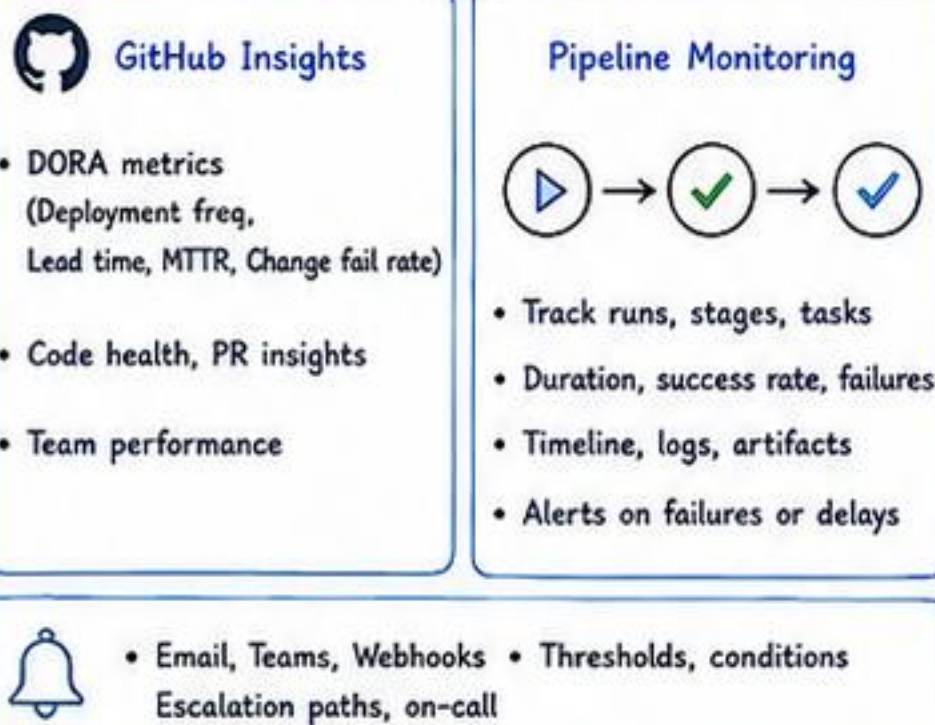
2 CORE TELEMETRY TYPES



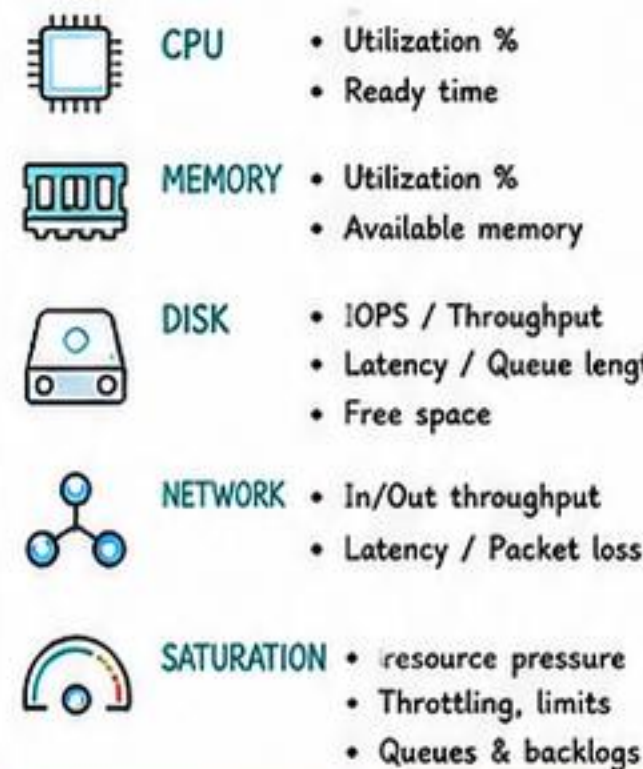
3 AZURE OBSERVABILITY TOOLS



4 GITHUB INSIGHTS & PIPELINE MONITORING



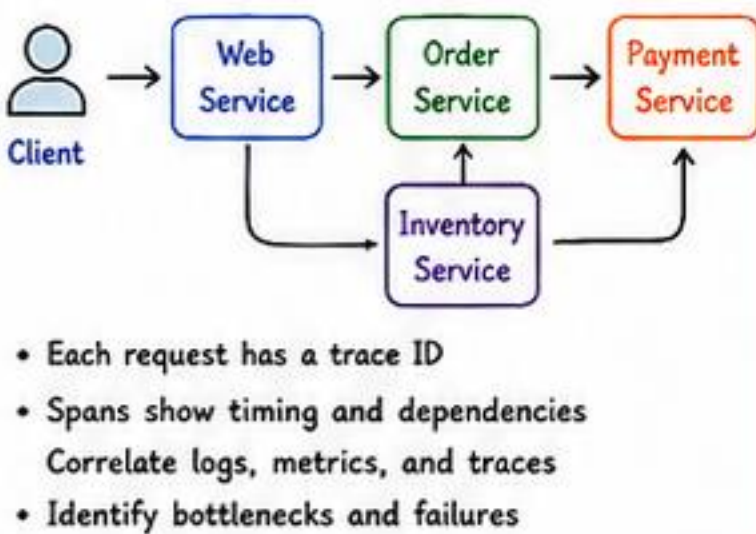
5 INFRASTRUCTURE SIGNALS



6 APPLICATION SIGNALS

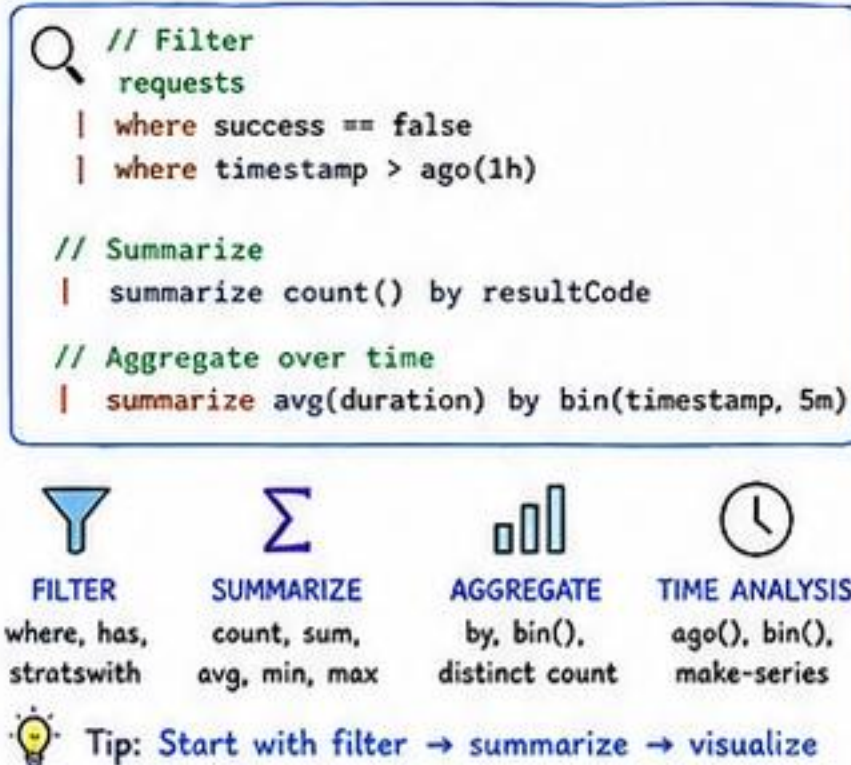


7 DISTRIBUTED TRACING & CORRELATION

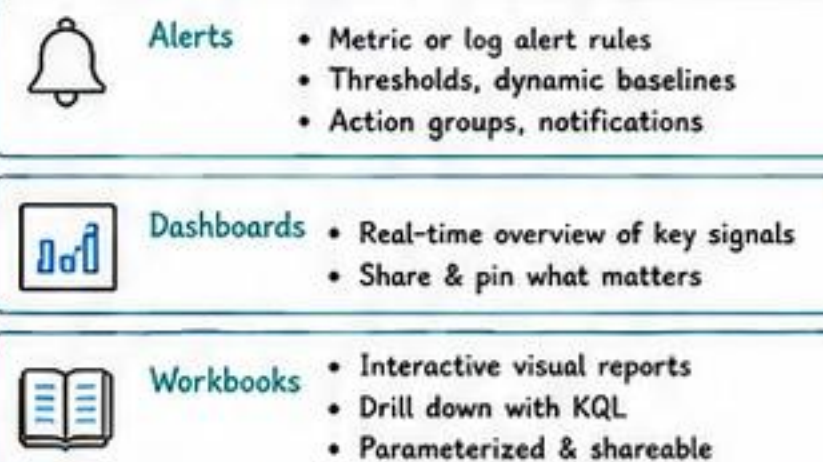


Result: Faster root cause, better reliability

8 KQL BASICS (LOG ANALYTICS)

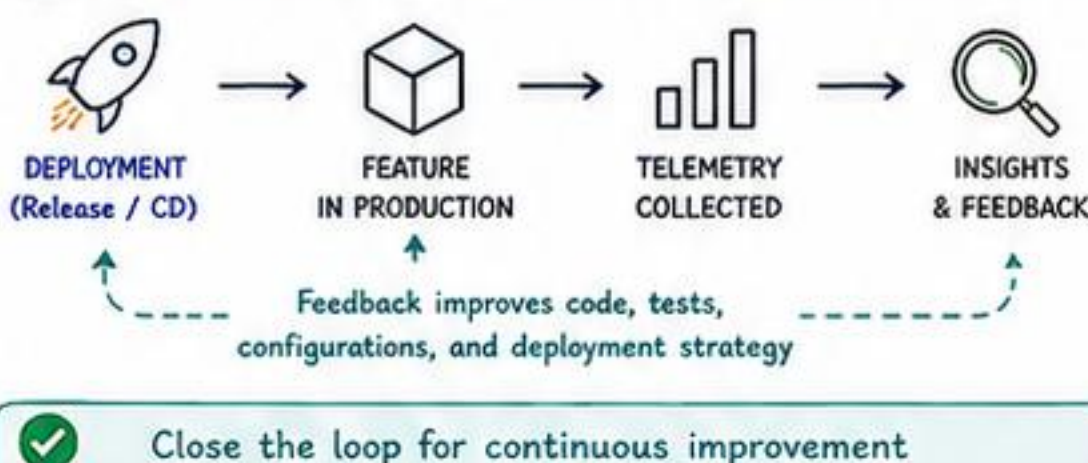


9 ALERTS, DASHBOARDS, WORKBOOKS & ACTIONABLE FEEDBACK LOOPS



Act → Investigate → Resolve → Learn → Improve
 Capture learnings and update dashboards, alerts, runbooks, and tests.

10 HOW DEPLOYMENTS CONNECT TO TELEMETRY



11 EXAM TIPS (DOMAIN 5: INSTRUMENTATION STRATEGY)

- ✓ Know core telemetry types and what they're best for
- ✓ Understand Azure Monitor and related insight tools
- ✓ Recognize key infrastructure and application signals
- ✓ Know how tracing and correlation speed up troubleshooting
- ✓ Write simple KQL: filter, summarize, aggregate, time bins
- ✓ Know how alerts, dashboards, and workbooks are used
- ✓ Understand feedback loops and continuous improvement

REMEMBER: 
 Good observability turns data into insight, insight into action, and action into reliability.