Improved Report Directory Structure

Current Problems

- Flat directory structure with all files mixed together
- Non-descriptive scan directory names
- Individual scanner results mixed with summary reports
- No organization by target or scanner type

Proposed Structure

```
reports/
— index.html
                                                  # Auto-generated main
index
<u> 2025-09-01_20-04-46/</u>
                                                # Human readable
timestamp as scan_id
   ├─ index.html
                                                 # Auto-generated scan
index
                                                 # Scan metadata and
   ├─ metadata.json
summary
                                                 # High-level reports
     — summary/
       — executive_summary.html
        detailed_report.html
        ├─ findings_summary.json
        └─ scan_summary.sarif
                                                 # Organized by target
      - targets/
                                                # Target name
        ├─ nginx/
            ├─ index.html
                                                # Target summary
                                                # Individual scanner
            ├─ scanners/
results
                  — trivy/
                    ├─ report.html
                     — findings.json
                    └─ raw_output.txt
                  - grype/
                    ├─ report.html
                      findings.json
                    └─ raw_output.txt
                  - dockle/
                    report.html
                      — findings.json
                    └─ raw_output.txt
            └─ combined_findings.json
                                               # All findings for this
target
        └─ ubuntu/
                                                # Another target
            ├─ index.html
              - scanners/
                ├─ trivy/
```

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```
- syft/

    combined_findings.json

      − raw/
                                                  # Raw scanner outputs
(optional)
         — trivy_nginx.json
          – grype_ubuntu.json
                                                  # Another scan session
  - 2025-09-01_19-55-37/
     — index.html
      metadata.json
      - summary/
      - targets/
      - raw/
  - 2025-08-30_14-22-15/
                                                  # Older scan session
     — index.html
      metadata.json
      summary/
      - targets/
      – raw∕
```

Benefits

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- 1. **Clear Hierarchy**: Summary → Targets → Scanners → Results
- 2. Better Navigation: Auto-generated index pages at each level
- 3. **Target Organization**: Easy to find results for specific targets
- 4. **Scanner Separation**: Individual scanner results are isolated
- 5. **Metadata Tracking**: Each scan has metadata for better organization
- 6. **Scalable**: Works for any number of targets and scanners
- 7. **Web-Friendly**: Multiple index pages for easy browsing
- 8. Multiple Scans: Each scan session gets its own timestamped directory
- 9. Human Readable: Timestamp format is easy to understand

Naming Convention

- Scan Directory: YYYY-MM-DD_HH-MM-SS
 - Example: 2025-09-01_20-04-46
 - Human readable and sortable chronologically
 - Works for any scan type (container, git, k8s, terraform, filesystem)
- Target Directory: Use sanitized target name
 - Docker images: nginx, ubuntu-22-04
 - Git repos: my-app, security-scanner
 - Files: deployment-yaml, main-tf

Index Generation

Each directory level will have an auto-generated index.html:

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- 1. Main Index (reports/index.html): Lists all scans chronologically
- 2. **Scan Index** ({scan-id}/index.html): Overview of specific scan results
- 3. Target Index (targets/{target}/index.html): Target-specific results