Cloud Computing Review III Requirement

Priority	Topic Area	Why It's the Right Choice	What Students Can Do in 10 Days	Expected Deliverables / Demo
#1 – CI/CD Security & Code Scanning (SAST/DAST)	Integrate a lightweight **security scan** into their GitHub or Azure pipeline using **CodeQL**, **SonarCloud**, or **OWASP ZAP**.	Practical Directly tied to DevOps work already done in Review II Produces tangible scan reports Enhances understanding of secure DevOps	- Add a CodeQL or SonarCloud workflow in their GitHub Actions- Run a basic OWASP ZAP baseline scan- Identify at least **2 vulnerabilities** and show one fix	- `Security_Report.pdf` (scan output)- Short note "How we fixed X issue"- 1-minute demo of pipeline run with security step

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#2 – Monitoring & Observability (Azure Monitor / App Insights)	Use Azure Monitor or a mock dashboard (Grafana / Power BI) to visualize metrics.	Reinforces cloud operations concepts Easy to configure / simulate Connects to syllabus (Cloud Monitoring & DR) Encourages reflection on performance & cost	- Connect app to **Application Insights** (or simulate via dummy data)- Define 3 key metrics (CPU %, requests, errors)- Create one alert rule or dashboard view	- `Monitoring_Dashboard.pdf` (screenshots)- 3-slide demo of metrics & alert configuration