GreenOps Maturity Assessment Worksheet

A practical tool for evaluating and improving your cloud sustainability practices

CloudCostChefs GreenOps Series

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Assessment Overview

Purpose

This worksheet helps you systematically evaluate your organization's GreenOps maturity across five key dimensions. Use it to:

- · Assess Current State: Understand where you are today
- · Identify Gaps: Pinpoint areas for improvement
- Set Targets: Define realistic maturity goals
- Plan Roadmap: Create a time-bound improvement plan
- Track Progress: Measure advancement over time

How to Use This Worksheet

- 1. Gather Information: Collect data about your current practices before starting
- 2. Be Honest: Accurate assessment is more valuable than high scores
- 3. Involve Stakeholders: Get input from multiple teams and perspectives
- 4. Take Your Time: Allow 45-60 minutes for a thorough assessment
- 5. **Document Evidence**: Note specific examples to support your ratings

Assessment Team
Primary Assessor: Date:
Additional Participants: (Role:) (Role:) (Role:)
Organization Information
Basic Information
Organization Name:
Industry:
Organization Size: - [] Small (1-100 employees) - [] Medium (101-1000 employees) - [] Large (1001-5000 employees) - [] Enterprise (5000+ employees)
Cloud Environment: - [] Single Cloud Provider: [] Multi-Cloud: [] Hybrid (Cloud + On-premises)
Primary Cloud Providers: (Check all that apply) - [] Amazon Web Services (AWS) - [] Microsoft Azure - [] Google Cloud Platform (GCP) - [] Oracle Cloud Infrastructure (OCI) - [] Other:
Current State Context
Monthly Cloud Spend: \$
Number of Development Teams:
Number of Applications/Workloads:

Existing Practices: (Check all that apply) - [] FinOps program established - [] DevOps
practices implemented - [] Sustainability/ESG initiatives - [] Cost optimization efforts - [
Cloud governance policies
Assessment Motivation: (Check primary reason) - [] Starting GreenOps journey - [] Improving existing practices - [] Compliance requirements - [] Cost optimization goals - [] Sustainability commitments
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Maturity Assessment Framework

Maturity Levels

Level 1: Basic (Crawl) - Ad-hoc practices with minimal structure - Manual processes and limited automation - Individual or small team efforts - Basic awareness and understanding

Level 2: Developing (Walk) - Some structured processes and policies - Basic automation and tool integration - Team-level adoption and engagement - Regular but basic measurement and reporting

Level 3: Advanced (Run) - Comprehensive processes and governance - Extensive automation and integration - Organization-wide adoption and competency - Advanced measurement and optimization

Level 4: Leading (Fly) - Optimized and innovative practices - Full automation and seamless integration - Cultural embedding and strategic alignment - Predictive and prescriptive capabilities

Scoring Guidelines

For each dimension, evaluate your organization against the maturity indicators and select the level that best describes your current state:

- Score 1: Mostly Level 1 characteristics
- Score 2: Mostly Level 2 characteristics
- Score 3: Mostly Level 3 characteristics
- Score 4: Mostly Level 4 characteristics
- Score 1.5, 2.5, 3.5: Between levels (use when you're transitioning)

Evidence Collection

For each dimension, document specific examples that support your rating:

- Current Practices: What you're doing today
- Tools and Processes: Systems and workflows in place
- Challenges: Obstacles and limitations
- Opportunities: Areas for improvement

Dimension 1: Visibility & Measurement

Maturity Indicators

Level 1: Basic (Crawl) - Carbon data collected manually or via basic tools - Limited to high-level cloud provider dashboards - No standardized measurement methodology - Reporting is ad-hoc and manual

Level 2: Developing (Walk) - Automated data collection from multiple sources - Service-level emissions visibility - Consistent methodology applied - Regular reporting on basic metrics

Level 3: Advanced (Run) - Real-time carbon dashboards with alerts - Resource-level granularity for all services - Standardized, documented methodology - Trend analysis and forecasting

Level 4: Leading (Fly) - Carbon data integrated with all infrastructure tools - Workload-level and per-transaction visibility - Activity-based measurement with high accuracy - Predictive analytics and anomaly detection

Assessment Questions

Data Collection

- 1. How is carbon emissions data collected?
- 2. [] Manual collection from cloud provider dashboards
- 3. [] Semi-automated with basic tools
- 4. [] Fully automated from multiple sources
- 5. [] Integrated with all infrastructure and monitoring tools
- 6. What is the frequency of data collection?
- 7. [] Monthly or less frequent

8. [] V 9. [] D	•
10. [] R	eal-time
11. Wh	at percentage of your cloud footprint is covered by carbon tracking?
13. [] 2 14. [] 5	
Data Gra	nularity
2. [] A 3. [] S	what level can you view carbon emissions? ccount/subscription level only ervice level esource level
5. [] V	orkload/transaction level
6. Car	you break down emissions by team, application, or business unit?
8. [] B 9. [] D	lo breakdown capability asic breakdown by major categories etailed breakdown by teams/applications lynamic breakdown by any dimension
Methodo	ology
2. [] N 3. [] B	at carbon accounting methodology do you use? To consistent methodology Tasic spend-based estimation Control of the control of
5. [] H	lybrid approach with validation
6. Is y	our methodology documented and consistently applied?
8. [] B 9. [] C	lo documentation asic documentation omprehensive documentation utomated methodology with validation

Dimension 2: Optimization Practices

Maturity Indicators

Reporting

Level 1: Basic (Crawl) - Manual optimizations when problems are obvious - Focus on simple actions like deleting idle resources - No structured process for implementing changes - Limited to easy wins with immediate payback

Level 2: Developing (Walk) - Regular optimization reviews (monthly/quarterly) - Automated recommendations for common patterns - Process for implementing and tracking changes - Both quick wins and medium-term strategies

Level 3: Advanced (Run) - Continuous optimization via automation - Regular architecture reviews for efficiency - Carbon considerations in new designs - Advanced techniques like workload scheduling

Level 4: Leading (Fly) - ML-driven optimization across cloud footprint - Carbon efficiency as architectural principle - Automated remediation of inefficiencies - Continuous innovation in sustainable patterns

Assessment Questions

Optimization Approach

1. How are optimization opportunities identified?
2. [] Manual identification when issues are obvious
3. [] Tool-assisted identification with basic recommendations
4. [] Systematic identification with advanced analytics
5. [] AI/ML-driven identification with predictive capabilities
6. What process exists for implementing optimizations?
7. [] No formal process
8. [] Basic process with manual tracking
9. [] Structured process with automated tracking
10. [] Fully automated process with continuous improvement
11. How frequently are optimizations reviewed and implemented?
12. [] Ad-hoc or when problems arise
13. [] Monthly or quarterly reviews
14. [] Weekly reviews with continuous implementation
15. [] Real-time optimization with automated implementation
Optimization Types
1. What types of optimizations do you regularly implement?
2. [] Basic cleanup (idle resources, old snapshots)
3. [] Rightsizing and scheduling optimizations
4. [] Advanced optimizations (workload placement, architecture)
5. [] Innovative optimizations (carbon-aware computing, ML-driven)
6. Do you consider carbon impact in architectural decisions?
7. [] No consideration of carbon impact

8. [] Occasional consideration for major decisions

9. [] Regular consideration with documented guidelines

10. [] Carbon impact is a primary architectural principle

1. How do you track the impact of optimization initiatives? 2. [] No systematic tracking 3. [] Basic tracking of cost savings 4. [] Comprehensive tracking of cost and carbon savings 5. [] Advanced tracking with business impact analysis 6. Do you measure both financial and carbon savings? 7. [] No measurement of savings 8. [] Financial savings only 9. [] Both financial and carbon savings 10. [] Comprehensive value measurement including non-financial benefits **Current State Assessment** Overall Score for Dimension 2: _____/ 4 **Supporting Evidence: Current Practices: Tools and Processes: Challenges:**

Dimension 3: Integration & Automation

Maturity Indicators

Opportunities:

Measurement & Tracking

Level 1: Basic (Crawl) - Separate tools for carbon and cost tracking - Manual data transfer between systems - Limited or no automation - No integration with CI/CD or infrastructure

Level 2: Developing (Walk) - Basic integration between carbon and FinOps tools - Some automated data collection and reporting - Basic automation for common optimizations -Simple checks in deployment pipelines

Level 3: Advanced (Run) - Unified dashboards for carbon and cost - Extensive automation for data and optimizations - Integration with CI/CD for deployment validation - Carbon checks in infrastructure as code

Level 4: Leading (Fly) - Seamless integration across all platforms - Full automation of measurement and optimization - Carbon-aware CI/CD pipelines with enforcement -Automated carbon budget management

Assessment Questions

Tool Integration

- 1. How well are your carbon tools integrated with other platforms? 2. [] Completely separate tools and data 3. [] Basic integration with manual data sharing 4. [] Good integration with automated data sharing 5. [] Seamless integration across all platforms 6. Is there integration between FinOps and GreenOps tools? 7. [] No integration 8. [] Basic integration with shared dashboards 9. [] Comprehensive integration with unified workflows 10. [] Complete integration with shared governance 11. Can teams access carbon data within their existing workflows?
- 12. [] No access within existing workflows
- 13. [] Limited access through separate tools
- 14. [] Good access through integrated dashboards
- 15. [] Seamless access within all development tools

Automation Level

- 1. What aspects of carbon tracking are automated?
- 2. [] No automation
- 3. [] Basic data collection automation
- 4. [] Comprehensive tracking automation

5. [] Full automation with intelligent processing
6. What aspects of optimization are automated?
7. [] No automation 8. [] Basic cleanup automation 9. [] Advanced optimization automation 10. [] Intelligent, self-healing optimization
CI/CD Integration
 Is carbon impact assessed during development and deployment? [] No assessment during development/deployment [] Manual assessment for major changes [] Automated assessment with reporting
5. [] Automated assessment with enforcement
6. Are there carbon checks or gates in your deployment pipelines?
7. [] No carbon checks in pipelines8. [] Basic checks with warnings9. [] Comprehensive checks with gates10. [] Intelligent checks with adaptive thresholds
Current State Assessment
Overall Score for Dimension 3:/ 4
Supporting Evidence:
Current Practices:
Tools and Processes:
Challenges:
Opportunities:

Dimension 4: Culture & Governance

Maturity Indicators

Level 1: Basic (Crawl) - Limited awareness of GreenOps principles - Single person responsible for sustainability - No formal policies or processes - Minimal executive engagement

Level 2: Developing (Walk) - GreenOps training for key teams - Dedicated GreenOps team or function - Basic policies and governance - Executive reporting and sponsorship

Level 3: Advanced (Run) - Organization-wide GreenOps competency - Distributed responsibility model - Comprehensive policy framework - Executive KPIs tied to sustainability

Level 4: Leading (Fly) - Sustainability embedded in company culture - Cross-functional ownership and accountability - Policy-as-code with automated enforcement - Sustainability central to business strategy

Assessment Questions

Awareness & Skills

- 1. What percentage of technical staff understand GreenOps principles?
- 2. [] Less than 25%
- 3. [] 25-50%
- 4. [] 51-75%
- 5. [] More than 75%
- 6. Is there formal training on cloud sustainability practices?
- 7. [] No formal training
- 8. [] Basic training for key personnel
- 9. [] Comprehensive training program
- 10. [] Continuous learning and certification program
- 11. How is GreenOps knowledge shared across the organization?
- 12. [] No systematic knowledge sharing
- 13. [] Informal sharing within teams
- 14. [] Formal knowledge sharing processes
- 15. [] Embedded in organizational learning culture

Roles & Responsibilities

1. Who is responsible for GreenOps in your organization?
2. [] No designated responsibility
3. [] Single individual as champion
4. [] Dedicated team or function
5. [] Distributed across multiple roles and teams
6. Is responsibility centralized or distributed?
7. [] No clear responsibility structure
8. [] Centralized with single point of accountability
9. [] Distributed with clear role definitions
10. [] Integrated into all relevant job functions
11. Are GreenOps responsibilities included in job descriptions?
12. [] No inclusion in job descriptions
13. [] Included for sustainability roles only
14. [] Included for relevant technical roles
15. [] Included across all applicable roles
Policies & Governance
1. What formal GreenOps policies exist?
2. [] No formal policies
3. [] Basic policies for major areas
4. [] Comprehensive policy framework
5. [] Dynamic, automated policy enforcement
6. How are these policies enforced?
7. [] No enforcement mechanism
8. [] Manual enforcement with reminders
9. [] Automated enforcement with exceptions
10. [] Intelligent enforcement with adaptive rules
11. Is there executive oversight of GreenOps initiatives?
12. [] No executive oversight
13. [] Occasional executive updates
14. [] Regular executive reviews and decisions

Incentives & Recognition

1. Are teams incentivized to improve carbon efficiency?

• [] No incentives for carbon efficiency

• [] Informal recognition for improvements

• [] Formal incentives and recognition programs

• [] Carbon efficiency integrated into performance management

Current State Assessment

Overall Score for Dimension 4: _____/4

Supporting Evidence:

Current Practices:

Tools and Processes:

Dimension 5: Business Integration

Maturity Indicators

Challenges:

Opportunities:

Level 1: Basic (Crawl) - Carbon tracking seen as technical exercise - No connection to business metrics - Sustainability treated as cost center - No value measurement for GreenOps initiatives

Level 2: Developing (Walk) - Basic carbon budgets aligned to business units - Carbon efficiency reported alongside costs - ROI calculated for major initiatives - Some connection to business objectives

Level 3: Advanced (Run) - Carbon accounting integrated with finance - Regular business reviews include sustainability - Comprehensive ROI tracking for all initiatives - Clear alignment to corporate ESG strategy

Level 4: Leading (Fly) - Carbon treated as business currency - Product decisions include carbon considerations - Value quantification for all sustainability aspects - Strategic advantage derived from GreenOps

As

Bu

ssessment Questions
isiness Alignment
 How is GreenOps aligned with business objectives? [] No alignment with business objectives [] Basic alignment with sustainability goals [] Strong alignment with business strategy
5. [] Integral to business strategy and competitive advantage
6. Are carbon metrics included in business reviews?
7. [] No inclusion in business reviews 8. [] Occasional inclusion in sustainability reports 9. [] Regular inclusion in business reviews 10. [] Central to business performance discussions
11. Do product decisions include carbon considerations?
12. [] No carbon considerations in product decisions 13. [] Occasional consideration for major decisions 14. [] Regular consideration with documented impact 15. [] Carbon impact central to product strategy
lue Measurement
 How do you measure the business value of GreenOps initiatives? [] No business value measurement [] Basic cost savings calculation
4

Va

- 4. [] Comprehensive ROI analysis
- 5. [] Multi-dimensional value quantification
- 6. Is there a process for calculating ROI on sustainability investments?

7. [] No ROI calculation process8. [] Ad-hoc ROI calculation for major investments9. [] Systematic ROI calculation for all investments
10. [] Advanced value modeling with predictive analytics
11. Do you quantify non-financial benefits of carbon reduction?
12. [] No quantification of non-financial benefits13. [] Basic awareness of non-financial benefits14. [] Systematic quantification of key benefits15. [] Comprehensive value framework including all benefits
Budget & Resources
 Is there dedicated budget for GreenOps initiatives? [] No dedicated budget [] Ad-hoc budget allocation [] Dedicated annual budget
5. [] Integrated budget planning with business units
6. How are carbon budgets allocated and managed?
7. [] No carbon budget allocation8. [] High-level carbon budget targets9. [] Detailed carbon budgets by team/project10. [] Dynamic carbon budget management
Strategic Impact
 Is cloud sustainability part of your corporate strategy? [] Not part of corporate strategy [] Mentioned in sustainability initiatives [] Integrated into corporate strategy
5. [] Central to competitive strategy
6. Do you leverage GreenOps for competitive advantage?
 [] No competitive advantage consideration [] Basic differentiation through sustainability [] Clear competitive advantage from GreenOps [] Market leadership through sustainable innovation

Current State Assessment
Overall Score for Dimension 5: / 4
Supporting Evidence:
Current Practices:
Tools and Processes:
Challenges:
Opportunities:

Scoring Summary

Individual Dimension Scores

Dimension	Score	Level	Notes
1. Visibility & Measurement	/4		
2. Optimization Practices	/4		
3. Integration & Automation	/4		
4. Culture & Governance	/4		
5. Business Integration	/4		

Overal	l Matu	urity	Score
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Total Score: _____ / 20

Average Score: _____/ 4

Overall Maturity Level: -[] 1.0-1.5: Basic (Crawl) -[] 1.6-2.5: Developing (Walk) -[]

2.6-3.5: Advanced (Run) - [] 3.6-4.0: Leading (Fly)

Strengths (Highest scoring dimensions): 1 2.		_ 3	
Improvement Areas (Lowest scoring dimensions): 1	2.		_ 3.
Assessment Summary			
Current State Description:			
Key Observations:			

Gap Analysis

Maturity Profile

Target Maturity Setting

Based on your organizational context and goals, set target maturity levels for each dimension:

Dimension	Current Score	Target Score	Gap	Priority
1. Visibility & Measurement				
2. Optimization Practices				
3. Integration & Automation				
4. Culture & Governance				
5. Business Integration				

Priority Levels: High, Medium, Low

Gap Analysis by Dimension

Dimension 1: Visibility & Measurement

Current Level: _ Target Level: Gap: __

Key Gaps:
Required Capabilities:
Dimension 2: Optimization Practices
Current Level: _ Target Level: Gap:
Key Gaps:
Required Capabilities:
Dimension 3: Integration & Automation
Current Level: _ Target Level: Gap:
Key Gaps:
Required Capabilities:
Dimension 4: Culture & Governance
Current Level: _ Target Level: Gap:
Key Gaps:
Required Capabilities:
Dimension 5: Business Integration
Current Level: _ Target Level: Gap:
Key Gaps:
Required Capabilities:
Roadmap Planning
Implementation Timeline
Target Completion Date:
Assessment Date: Reassessment Date:

Q1 (to)				
Focus Areas:				
Key Initiatives:				
Initiative	Dimension	Owner	Success Criteria	Status
	-			
Resource Requi	rements: - Budget:	\$ Personi	nel: Tools/Training: _	
Q2 (to)				
Focus Areas:				
Key Initiatives:				
Initiative	Dimension	Owner	Success Criteria	Status
Resource Requi	 rements: - Budget:	 \$ Personi	 nel: Tools/Training: _	
Resource Requi	 rements: - Budget:	 \$ Personi	 nel: Tools/Training: _	
Q3 (to)	 rements: - Budget: 		 nel: Tools/Training: _	
Q3 (to)			 nel: Tools/Training: _	
Q3 (to) Focus Areas:			nel: Tools/Training: _ Success Criteria	Status

Quarterly Roadmap

Initiative	Dimension	Owner	Success Criteria	Status
Resource Requi	r ements: - Budget:	\$ Personi	nel: Tools/Training: _	
Q4 (to)				
Focus Areas:				
Key Initiatives:				
Initiative	Dimension	Owner	Success Criteria	Status
Resource Requi	r ements: - Budget:	\$ Personi	nel: Tools/Training: _	
Dependencies	s and Risks			
Critical Depende				
1 =====				
3: Key Picks and M	itigation Strategie	ne .		
-				
1. RISK:	Mitigation: _			
2. Risk:	Mitigation: _			
3. Risk:	Mitigation: _			
Success Metri	cs			
Quantitative Me	trics			
Cost SavingPolicy Com	gs: \$_ annual savin	gs from optin resources co	mpliant with policies	000 spend

Qualitative	Metrics	

Executive Satisfaction:Team Feedback:
Process Effectiveness:Cultural Change:
Action Plan Template
Immediate Actions (Next 30 Days)
Action 1
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Action 2
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Action 3
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Short-term Actions (Next 90 Days)
Action 1
Description: Owner: Due Date: _ Priority: _ Success Criteria:
Resources Needed: Status: Action 2
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Action 3
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:

Medium-term Actions (Next 6 Months)

Action 1
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Action 2
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Action 3
Description: Owner: Due Date: _ Priority: _ Success Criteria: Resources Needed: Status:
Communication Plan
Stakeholder Updates
Executive Team: - Frequency: Format: Key Messages:
Management Team: - Frequency: Format: Key Messages:
Development Teams: - Frequency: Format: Key Messages:
All Staff: - Frequency: Format: Key Messages:
Progress Tracking
Monthly Check-ins
Date: Attendees:
Progress Summary:
Completed Actions:
Challenges Encountered:
Adjustments Needed:

Next Month Focus:	⁻
Assessment Review So	chedule
Quarterly Reviews	
· Q1 Review Date:	Completed: [] Yes [] No
· Q2 Review Date:	Completed: [] Yes [] No
· Q3 Review Date:	Completed: [] Yes [] No
· Q4 Review Date:	Completed: [] Yes [] No
Annual Reassessment	
Scheduled Date:	Completed: [] Yes [] No
Maturity Progression: - Stapoints	arting Score: _ / 4 - Current Score: / 4 - Improvement:
Key Achievements:	
Lessons Learned:	
Next Year Priorities:	

Additional Resources

CloudCostChefs GreenOps Resources

- GreenOps Fundamentals Guide: Learn the basics of cloud sustainability
- GreenOps Governance Framework: Implement organizational governance
- GreenOps Implementation Guide: Step-by-step implementation instructions
- GreenOps Starter Kit: Tools and templates for getting started

External Resources

- Green Software Foundation: Industry standards and best practices
- Cloud Provider Carbon Tools: Native carbon tracking capabilities
- Industry Benchmarks: Compare your progress with industry standards

• Training and Certification: Build organizational capabilities

Support and Community

- CloudCostChefs Community: Connect with other practitioners
- · Monthly Webinars: Learn from experts and case studies
- Implementation Support: Get help with your GreenOps journey
- Consulting Services: Accelerate your maturity advancement

Worksheet Completion

Assessment Summary	
Assessment Completed By:	
Date Completed:	
Overall Maturity Level:	
Top 3 Priorities: 1 2	3
Next Steps:	
Validation and Approval	
• •	
Reviewed By:	
Reviewed By:	
Approved By:	

This worksheet is part of the CloudCostChefs GreenOps series. For the latest updates and additional resources, visit cloudcostchefs.com/greenops

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