


# AI RFP Risk Scanner - Checkpoint/Version Management System Status Report

**Date:** July 30, 2025  
**Status:**  FULLY OPERATIONAL  
**Last Verified:** 2025-07-30T13:29:36.812Z

## System Overview

The AI RFP Risk Scanner’s checkpoint and version management system has been thoroughly tested and verified. All components are functioning correctly with no issues detected.

## Components Verified

### Database System

- **Status:** Operational
- **Database:** PostgreSQL
- **Connection:** Verified and stable
- **Schema:** Up-to-date with all migrations applied
- **Test Results:** All CRUD operations working correctly

### File Storage System

- **Status:** Operational
- **Storage Location:** /home/ubuntu/ai\_rfp\_risk\_scanner/uploads/
- **Available Space:** 208G available (17% used)
- **Permissions:** Read/Write access verified
- **File Count:** 53 uploaded files successfully stored

### Version Control (Git)

- **Status:** Operational
- **Repository:** Initialized and functional
- **Current Branch:** master
- **Last Commit:** c7a1425 - “Checkpoint: System verification and testing completed”
- **Configuration:** User and email properly configured

### Checkpoint Management System

- **Status:** Operational
- **Manager Script:** /home/ubuntu/ai\_rfp\_risk\_scanner/checkpoint\_manager.js
- **Backup Directory:** /home/ubuntu/ai\_rfp\_risk\_scanner/.checkpoints/
- **Active Checkpoints:** 1 checkpoint created and verified

## Test Results

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### Database Checkpoint Test

- ✓ Initial checkpoint created with ID: cmdq0454z0000obkmuisacpe5
- ✓ Checkpoint update successful: completed
- ✓ Checkpoint retrieval successful: checkpoint\_test.txt
- ✓ Test checkpoint cleaned up
- 🎉 Checkpoint/version management system is working correctly!

### Complete Workflow Test

- 🎉 CHECKPOINT/VERSION MANAGEMENT SYSTEM TEST PASSED!
- All checkpoint operations are working correctly:
- ✓ Checkpoint creation
  - ✓ Status progression
  - ✓ Data persistence
  - ✓ Integrity verification
  - ✓ Version management
  - ✓ Cleanup operations

### System Verification Test

- 🔍 Verifying checkpoint system...
- ✓ Database connection verified
  - ✓ File system permissions verified
  - ✓ Git repository verified
  - ✓ Backup directory verified
- 🎉 Checkpoint system verification completed successfully!

## Current System Statistics

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- **Total Reports:** 12
- **Total Users:** 1
- **Total Risk Assessments:** Multiple assessments stored
- **Uploaded Files:** 53 files (2.2MB total)
- **Database Status:** All tables operational
- **Backup Status:** 1 checkpoint created successfully

## Checkpoint Features Available

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### 1. Automatic Checkpoint Creation

- Database state backup
- File system backup
- Git version tagging
- Metadata generation

### 2. Version Management

- Report versioning
- Status progression tracking

- Data integrity verification
- Rollback capabilities (via backup restoration)

### 3. System Monitoring

- Health checks
- Permission verification
- Storage monitoring
- Connection testing

## Usage Instructions

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### Create a New Checkpoint

```
cd /home/ubuntu/ai_rfp_risk_scanner
node checkpoint_manager.js create "checkpoint-name"
```

### List All Checkpoints

```
node checkpoint_manager.js list
```






### Verify System Health

```
node checkpoint_manager.js verify
```

## Troubleshooting

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All common issues have been resolved:

1. **Database Connection:**  Verified and stable
2. **File Permissions:**  Proper read/write access
3. **Storage Space:**  Abundant space available (208G)
4. **Git Configuration:**  Properly configured
5. **Backup System:**  Functional and tested

## Maintenance Recommendations

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1. **Regular Checkpoints:** Create checkpoints before major updates
2. **Storage Monitoring:** Monitor disk usage periodically
3. **Database Maintenance:** Run periodic database health checks
4. **Backup Verification:** Verify checkpoint integrity monthly

## Security Notes

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- Database credentials are properly secured in environment variables
- File uploads are stored in designated directory with proper permissions
- Git repository is properly configured with user credentials
- Backup files are stored securely in `.checkpoints/` directory

## Conclusion

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The checkpoint and version management system for the AI RFP Risk Scanner is **fully operational** and ready for production use. All components have been tested and verified to work correctly. The system can reliably:

- Create and manage checkpoints
- Store and retrieve data
- Handle file uploads and storage
- Maintain version control
- Provide system monitoring and health checks

**Status:**  **SYSTEM READY FOR PRODUCTION USE**