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Risk Assessment and Mitigation Plan

Re: Computing & Software Tools Infrastructure

**Executive Summary-** The purpose of this risk assessment and mitigation plan, is to identify the risks of the entire infrastructure and focus on the key areas of concern noted. Key areas of concerns include, admin access to windows & unix, password configurations, unauthorized code changes, backup tapes, power source and improper database access. With the current state, there are some potential risks of the power source being used with the 80 linux servers and the main ALM testing tool. The production environment, long working hours causing a long turnover and the experience of the junior administrators' experience being questioned. Ideally we would put in place steps to make sure the main tools are being tested regularly, to keep the project operating. Also, we would want to make sure there is no risk of burnout of the 100 member team and that there is a rotation of breaks implemented. Lastly, the system administrators we would want to make sure the team leaders are more knowledgeable about each tool.

## Deliverables

Risk Number	Description	Risk Probability	Risk Impact	Risk Level/Rating	Mitigation	Risk Responses
1.	Admin access/windows & Unix.	40%	5	7.6	Allow access with a specific code.	Accept
2.	Password configurations not set up properly.	30%	5	6.8	Devise a plan for new passwords	Accept
3.	Unauthorized code changes.	50%	5	7.6	Have only admin change codes	Accept
4.	Backup tapes are not accurate.	30%	4	4.1	Assign someone to oversee backing up tapes and test them.	Accept
5.	Main power sustainability.	60%	5	5.8	Assign someone to test the power source monthly.	Accept
6.	Improper database access.	30%	5	7.6		
7.	Turnover of developers.	20%	4	3.5	Develop surveys for team members and apply changes.	Accept
8.	Production environment	20%	4	3.5	Survey/Time off and add more team	Accept
9.	Knowledge	50%	5	4.9		

10.	of admins  10 to 12 hours shifts.				members.  Higher manageme nt can test admin there knowledge and add new admins if needed.  Apply shorter rotating shifts based off team member survey responses.	Accept
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Reference: implementation of the CVSS v3.1 equations available at  
<https://www.first.org/cvss/calculator/3.1>.