

INTRO/ABSTRACT

Analysis of Alternatives project is based around finding/recommending a workstation deployment tool to GTRI based on the outcomes of the research and testing phase of the project. The research phase was where the group researched ten workstation deployment tools, and then graded them based on the requirements and their grades given to the group by GTRI. Then using the tools grades and other pros and cons we used this information to select three of the ten tools to test. In the testing phase, with each tool, we would test each requirement using the tool to see if they could complete them. Then we recommended the tool we deemed the best based on research & testing to GTRI.

METHODS

With little-to-no knowledge within workstation deployment tools in the group. We researched through Google by just typing in their individual software and looking to see if it could complete the requirements given to the group from GTRI; an example would be "Can Ivanti deploy Windows 10" then looking through all information until a reliable source is found.

Our Analysis of Alternatives market review research paper, compared the capabilities of 10 workstation deployment solutions.

List of Requirements	Grading (point system)	Workstation Deployment Tools:	Score (based off requirements):
Able to play Windows 10 & Windows 11	10/10 = absolute must; 10 points	SmartDeploy -	66/83 = 79.5%
Able to deploy Windows Server 19	3/10 = nice to have; 3 points	Ivanti -	86/86 = 100%
Able to deploy RHEL 7 & 8	10/10 = absolute must; 10 points	Microsoft Deployment Toolkit -	101/103 = 98%
Able to deploy Ubuntu	5/10 = highly desirable not necessary;	FOG -	98/103 = 95%
Able to deploy Apple OSX	2/10 = nice to have; 2 points	Windows Azure -	93/95 = 97.8%
Able to support multiple users, multiple IT staff can deploy systems	9/10 = must; 9 points	Microsoft Systems Center -	96/103 = 93.2%
Configure settings on workstations to meet security requirements	6/10; 6 points	KACE -	88/103 = 85%
Able to support various models	10/10 = absolute must; 10 points	Symantec Ghost Solution Suite -	61/88 = 69%
Ability to apply updates	8/10 = necessary; 8 points	Microsoft Endpoint Manager -	88/88 = 100%
Ability to encrypt hard drive	5/10 = highly desirable not necessary; 5 points	Workspace ONE -	85/88 = 96.5%
Ability to join a central management system, centralized authentication, talking about active directory, landscape, satellite	6/10; 6 points		
Ability to run custom scripts	9/10 = must; 9 points		
Solution should be able to deploy to a laptop or desktop in two hours	7/10; 7 points		
Solution should be able to deploy to 25 systems simultaneously	8/10 = necessary; 8 points		
Has good 3 rd party reviews	5/10 = highly desirable not necessary; 5 points		

RESULTS

Three Chosen to Test:

1. Ivanti
2. FOG
3. Microsoft Deployment Toolkit with WDS

Final Recommendation:

Microsoft Deployment Toolkit with WDS