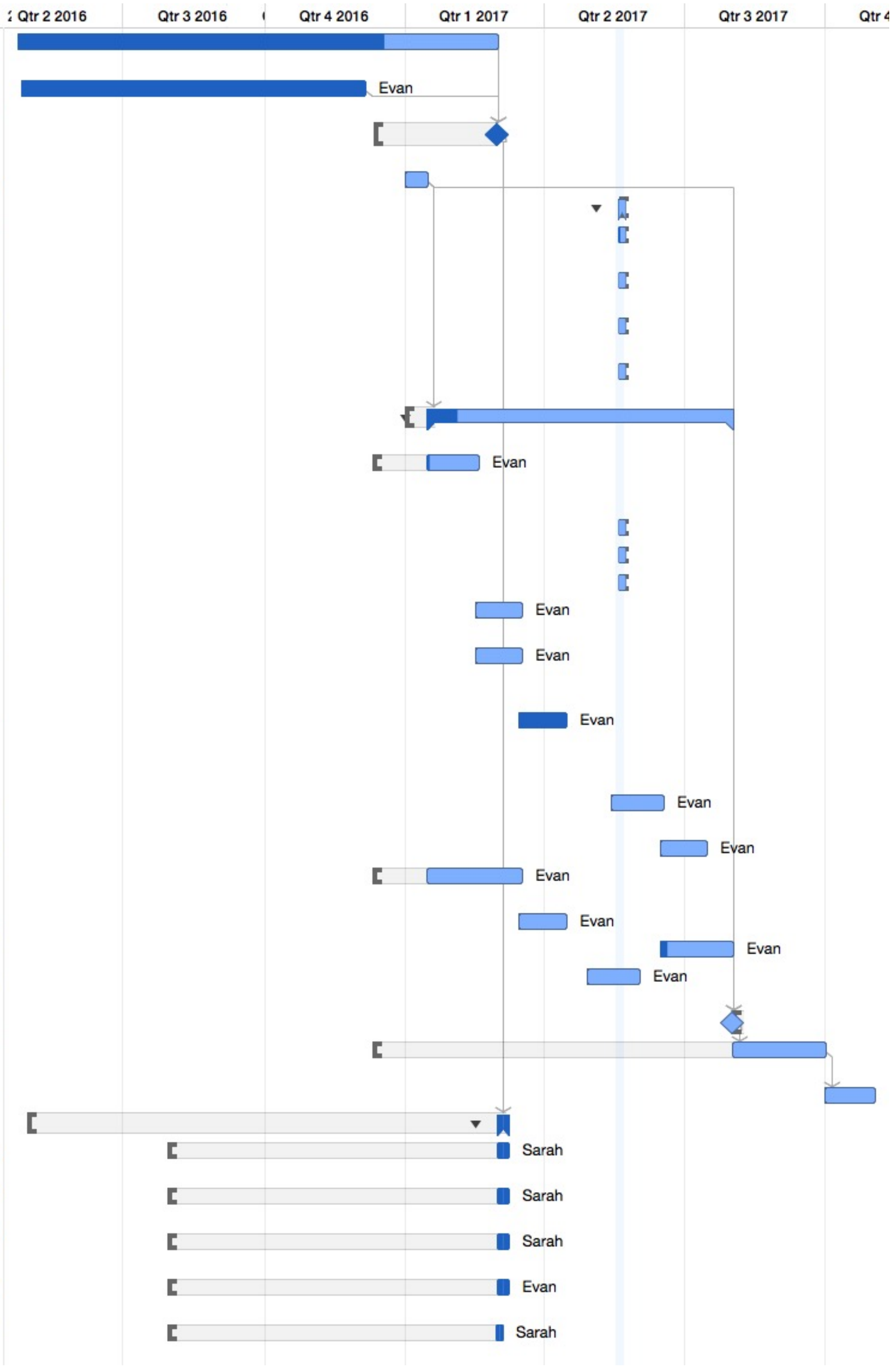
Overview Task Report Resource Report Ea V An

RCECloud: Earned Value Analysis

Task	Planned Value	Earned Value	Actual Cost	Cost Variance	Schedule Variance	Estimate at Completion	Budgeted at Completion	Variance at Completion	CPI	SPI	CV %	SV %	TCPI
0) RCECloud													
1) Offload unwanted or time-consuming services/responsibilities.													
1.1) Decommission old/unused hardware.													
1.2) Automate patching procedure													
1.3) Migrate CGA hardware out of data center													
1.4) Migrate/remove Redmine													
1.5) Migrate RT to secondary provider or utilize RT engineers to upgrade our installation. Investigate providers.													
1.5.1) Research which provider or hosted solution is best.													
1.5.2) Work with provider to upgrade and maintain RT installation.													
1.5.3) Make an inventory of all of our 'RT' scrips and discard those which are no longer necessary for migration.													
1.6) Migrate tape backup archive to BackBlaze.													
1.6.1) Get BackBlaze certified with OGC/HUIT													
1.6.2) Buy and install host which performs backups													
1.6.3) Work with BackBlaze to find the most efficient way of pushing this data													
1.6.4) Use HashBackup													
1.6.5) Measure performance and reliability of process; backup data to tapes and BackBlaze													
1.6.6) Find out what we need to backup, and when													
1.6.7) Re-write documentation on backing up user, project data, and restoration to conform to BackBlaze backup system.													
1.7) Migrate all web services, except ShinyServer, to Heroku, including DVN.													
1.7.1) Migrate and decommission Jenkins, reuse.													
1.7.2) Work with Salesforce/Heroku to build an HMDC Heroku Enterprise contract													
1.7.3) Create a basic-enterprise HMDC Heroku account with some limits.													
1.7.4) Give Raman access to a basic Heroku account and ask him to deploy Dataverse Network to its and its components.													
1.7.5) Certify Heroku with OGC													
1.7.6) Create a Heroku account and deploy Latanya's PHP application to it.													
1.7.6.1) If successful, work with Latanya to migrate one of her websites entirely to Heroku to test the viability of this environment.													
1.7.7) Work with Heroku to determine enterprise pricing for the amount of web sites we host.													
1.7.8) Determine the best method to migrate our users permissions to Heroku: How much CPU time should they get? How much memory should they get? Should they be allowed to provision as many websites as they want, etc.													
1.7.9) Determine the best method for file storage on Heroku — using an S3 bucket, connecting to our local NetApp, etc.													
1.7.10) Work with Gary and Cris to decide how much support we provide for users in the Heroku environment: Do we help them setup GitHub repositories? Do we help them with basic PHP programming fundamentals, permissions?													
1.7.11) Migrate all sites to Heroku. Provide a deadline.													
1.7.12) Ask DVN to migrate their entire toolchain to the Cloud. Provide a deadline.													
2) Work with Microsoft to build RCE-in-Azure launching pad													
3) AWS/AZURE/Cloud migration preparations complete													
4) Test RCE/Azure PoC with a small user-base													
5) Re-design authentication/authorization													
5.1) Create a small web app — my.hmdc — to sync accounts.													
5.2) Work with Harvard IAM to develop security procedures around LDAP re-writes.													
5.3) Develop re-write engine to sync Harvard Key and local LDAP accounts.													
5.4) Re-write documentation wrt. account creation and meet with Soner's team.													
6) Re-design RCE/Azure to support multi-cloud submission													
6.1) Use docker containers for applications rather than stored images, export with XPRA.													
6.2) Install Rancher environment to Clouds													
6.3) Install Kubernetes environment to Clouds													
6.4) Integrate Harvard Open Nebula													
6.5) Build REDIS queue and worker to distribute tasks to multiple clouds													
6.6) Build docker images for HTCondor negotiator, collector, and schedd for AWS with redundancy													
6.7) Redesign RCE/Azure application to submit jobs to redis queue and manage jobs through the redis queue and associated workers													
6.8) Scale NodeJS web service appropriately using npm-cluster/multiple workers													
6.9) Implement tests for NodeJS code													
6.10) Use Terraform to create abstract cloud configurations for AWS, Azure, Google													
6.11) Auto-build and test docker images													
6.12) Implement monitoring for RCE Cloud													
6.13) Allow mounting of home directories - CI3/CI4 to Azure and CI3/CI4 to Amazon													
7) SID public beta release													
8) Resolve any outstanding bugs acquired from BETA release													
9) Begin to migrate users to RCE Cloud													
10) Migrate most services to Cloud													
10.1) Slowly de-commission execute nodes, sell or move to recycling.													
10.2) De-commission RCE Login nodes, sell or cycle, migrate licenses to Cloud.													
10.3) With all web apps migrated to Heroku, turn off and recycle www-* hosts.													
10.4) Migrate pertinent fs-4 tasks to another host, turn off and recycle fs-4.													
10.5) With RT migrated to cloud provider, turn off RT and recycle.													

RCECloud: Gantt Chart

Title	Effort
1) Offload unwanted or time-consuming services/ responsibilities.	169w 2d 2.5h
2) Work with Microsoft to build RCE-in-Azure launching pad	31w 4d 1.75h
3) AWS/AZURE/Cloud migration preparations complete	0h
4) Test RCE/Azure PoC with a small user-base	2w
5) Re-design authentication/authorization	4d
5.1) Create a small web app — my.hmdc — to sync accounts.	1d
5.2) Work with Harvard IAM to develop security procedures around LDAP re-writes.	1d
5.3) Develop re-write engine to sync Harvard Key and local LDAP accounts.	1d
5.4) Re-write documentation wrt. account creation and meet with Soner's team.	1d
6) Re-design RCE/Azure to support multi-cloud submission	51w 3d 6h
6.1) Use docker containers for applications rather than stored images, export with XPRA.	4w 4d
6.2) Install Rancher environment to Clouds	1d
6.3) Install Kubernetes environment to Clouds	1d
6.4) Integrate Harvard Open Nebula	1d
6.5) Build REDIS queue and worker to distribute tasks to multiple clouds	4w 1d
6.6) Build docker images for HTCondor negotiator, collector, and schedd for AWS with redundancy	4w 1d
6.7) Redesign RCE/Azure application to submit jobs to redis queue and manage jobs through the redis queue and associated workers	4w 1d 6h
6.8) Scale NodeJS web service appropriately using npm-cluster/multiple workers	4w 4d
6.9) Implement tests for NodeJS code	4w 1d
6.10) Use Terraform to create abstract cloud configurations for AWS, Azure, Google	8w 4d
6.11) Auto-build and test docker images	4w 2d
6.12) Implement monitoring for RCE Cloud	6w 3d
6.13) Allow mounting of home directories - CI3/ CI4 to Azure and CI3/CI4 to Amazon	4w 4d
7) SID public beta release	0h
8) Resolve any outstanding bugs acquired from BETA release	8w 3d
9) Begin to migrate users to RCE Cloud	4w 3d
10) Migrate most services to Cloud	4w 1d
10.1) Slowly de-commission execute nodes, sell or move to recycling.	1w
10.2) De-commission RCE Login nodes, sell or cycle, migrate licenses to Cloud.	1w
10.3) With all web apps migrated to Heroku, turn off and recycle www-* hosts.	1w
10.4) Migrate pertinent fs-4 tasks to another host, turn off and recycle fs-4.	1w
10.5) With RT migrated to cloud provider, turn off RT and recycle.	1d



Cost

None

62% Completed

Start: 4/23/16, 12:00 AM

End Date: 11/1/17, 5:00 PM

Variance: None

RCECloud

Resource summary

Name	Start Date	End Date	Duration	% Complete	Assignment Cost
Evan	4/25/16, 8:15 AM	8/1/17, 5:00 PM	195w 4d 0.25h	63%	
Brad	7/29/16, 4:30 PM	8/3/16, 4:30 PM	3d	100%	
Sarah	8/1/16, 8:00 AM	3/8/17, 5:00 PM	3w 3d	100%	
Bill			0h		

Earned Value Analysis Summary

Planned Value	Earned Value	Actual Cost	Cost Variance	Schedule Variance	Estimate at Completion	Budgeted at Completion	Variance at Completion	CPI	SPI	CV %	SV %	TCPI

RCECloud: Monte Carlo Simulation

AWS/AZURE/Cloud migration preparations complete	Best-Case	Worst Case	Expected
Cost to Achieve			
Time to Achieve	3/1/17, 5:00 PM	3/1/17, 5:00 PM	3/1/17, 5:00 PM

SID public beta release	Best-Case	Worst Case	Expected
Cost to Achieve			
Time to Achieve	8/1/17, 5:00 PM	8/1/17, 5:00 PM	8/1/17, 5:00 PM

Overview Task Report Resource Report E V A

RCECloud: Resource Timeline

Name	Start Date	End Date	Duration	% Complete	Assignment Cost
Evan	**4/25/16, 8:15 AM**	**8/1/17, 5:00 PM**	**195w 4d 0.25h**	**63%**	
Migrate all sites to Heroku. Provide a deadline.	4/25/16, 8:15 AM	3/1/17, 8:15 AM	44w 2d	75%	
Work with Microsoft to build RCE-in-Azure launching pad	4/27/16, 8:00 AM	12/6/16, 9:45 AM	31w 4d 1.75h	100%	
Work with BackBlaze to find the most efficient way of pushing this data	4/28/16, 8:00 AM	4/28/16, 5:00 PM	1d	100%	
Automate patching procedure	5/4/16, 8:00 AM	5/10/16, 5:00 PM	1w	100%	
Certify Heroku with OGC	5/4/16, 8:00 AM	5/4/16, 5:00 PM	1d	100%	
Work with Heroku to determine enterprise pricing for the amount of web sites we host.	7/29/16, 4:30 PM	8/3/16, 4:30 PM	3d	100%	
Determine the best method to migrate our users permissions to Heroku: How much CPU time should they get? How much memory should they get? Should they be allowed to provision as many websites as they want, etc.	7/29/16, 4:30 PM	8/5/16, 4:30 PM	1w	100%	
Determine the best method for file storage on Heroku — using an S3 bucket, connecting to our local NetApp, etc.	7/29/16, 4:30 PM	8/5/16, 4:30 PM	1w	100%	
Give Raman access to a basic Heroku account and ask him to deploy Dataverse Network to its and its components.	7/29/16, 4:30 PM	8/2/16, 4:30 PM	2d	100%	
Research which provider or hosted solution is best.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%	
Make an inventory of all of our 'RT' scrips and discard those which are no longer necessary for migration.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%	
If successful, work with Latanya to migrate one of her websites entirely to Heroku to test the viability of this environment.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%	
Get BackBlaze certified with OGC/HUIT	7/29/16, 4:45 PM	8/1/16, 4:45 PM	1d	100%	
Work with Salesforce/Heroku to build an HMDC Heroku Enterprise contract	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%	
Migrate and decommission Jenkins, reuse.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%	
Use HashBackup	8/1/16, 8:00 AM	8/8/16, 8:15 AM	1w 0.25h	100%	
Ask DVN to migrate their entire toolchain to the Cloud. Provide a deadline.	8/1/16, 8:00 AM	3/1/17, 5:00 PM	30w 3d	60%	
Create a basic-enterprise HMDC Heroku account with some limits.	8/1/16, 8:00 AM	8/1/16, 5:00 PM	1d	100%	
Work with provider to upgrade and maintain RT installation.	8/5/16, 4:45 PM	12/30/16, 5:00 PM	21w 0.25h	80%	
Measure performance and reliability of process; backup data to tapes and BackBlaze	8/8/16, 8:15 AM	8/15/16, 8:15 AM	1w	100%	
Re-write documentation on backing up user, project data, and restoration to conform to BackBlaze backup system.	11/21/16, 8:00 AM	12/16/16, 5:00 PM	4w	100%	
Use docker containers for applications rather than stored images, export with XPRA.	1/16/17, 8:00 AM	2/16/17, 5:00 PM	4w 4d	6%	
Use Terraform to create abstract cloud configurations for AWS, Azure, Google	1/16/17, 8:00 AM	3/16/17, 5:00 PM	8w 4d	0%	
Build REDIS queue and worker to distribute tasks to multiple clouds	2/16/17, 8:00 AM	3/16/17, 5:00 PM	4w 1d	0%	
Build docker images for HTCondor negotiator, collector, and schedd for AWS with redundancy	2/16/17, 8:00 AM	3/16/17, 5:00 PM	4w 1d	0%	
Migrate pertinent fs-4 tasks to another host, turn off and recycle fs-4.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%	
Redesign RCE/Azure application to submit jobs to redis queue and manage jobs through the redis queue and associated workers	3/16/17, 8:00 AM	4/14/17, 3:00 PM	4w 1d 6h	100%	
Auto-build and test docker images	3/16/17, 8:00 AM	4/14/17, 5:00 PM	4w 2d	0%	
Allow mounting of home directories - CI3/CI4 to Azure and CI3/CI4 to Amazon	5/1/17, 8:00 AM	6/1/17, 5:00 PM	4w 4d	0%	
Scale NodeJS web service appropriately using npm-cluster/multiple workers	5/16/17, 8:00 AM	6/16/17, 5:00 PM	4w 4d	0%	
Implement tests for NodeJS code	6/16/17, 8:00 AM	7/14/17, 5:00 PM	4w 1d	0%	
Implement monitoring for RCE Cloud	6/16/17, 8:00 AM	8/1/17, 5:00 PM	6w 3d	10%	
Brad	**7/29/16, 4:30 PM**	**8/3/16, 4:30 PM**	**3d**	**100%**	
Work with Gary and Cris to decide how much support we provide for users in the Heroku environment: Do we help them setup GitHub repositories? Do we help them with basic PHP programming fundamentals, permissions?	7/29/16, 4:30 PM	8/3/16, 4:30 PM	3d	100%	
Sarah	**8/1/16, 8:00 AM**	**3/8/17, 5:00 PM**	**3w 3d**	**100%**	
Find out what we need to backup, and when	8/1/16, 8:00 AM	8/1/16, 5:00 PM	1d	100%	
Buy and install host which performs backups	8/1/16, 8:00 AM	8/1/16, 5:00 PM	1d	100%	
Slowly de-commission execute nodes, sell or move to recycling.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%	
De-commission RCE Login nodes, sell or cycle, migrate licenses to Cloud.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%	
With all web apps migrated to Heroku, turn off and recycle www-* hosts.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%	
With RT migrated to cloud provider, turn off RT and recycle.	3/2/17, 8:00 AM	3/2/17, 5:00 PM	1d	100%	
Bill			**0h**		

RCECloud: Task Report

Task	Start	End	Duration	Completed	Dependencies	Total Cost	Assigned	Planned Start	Start Variance	Constraint Start	Planned End	End Variance	Constraint End
0) RCECloud	**4/25/16, 8:15 AM**	**11/1/17, 5:00 PM**	**79w 2d 7.75h**	**62%**									
1) Offload unwanted or time-consuming services/responsibilities.	**4/25/16, 8:15 AM**	**3/1/17, 5:00 PM**	**44w 2d 7.75h**	**76%**						**4/25/16, 8:15 AM**			
1.1) Decommission old/unused hardware.	5/10/16, 8:45 AM	8/11/16, 8:45 AM	13w 2d	100%						5/10/16, 8:45 AM			
1.2) Automate patching procedure	5/4/16, 8:00 AM	5/10/16, 5:00 PM	1w	100%			Evan			5/4/16, 8:00 AM			
1.3) Migrate CGA hardware out of data center	5/4/16, 8:00 AM	3/1/17, 5:00 PM	43w 1d	70%						5/4/16, 8:00 AM			
1.4) Migrate/remove Redmine	4/25/16, 8:15 AM	4/25/16, 10:15 AM	2h	100%									
1.5) Migrate RT to secondary provider or utilize RT engineers to upgrade our installation. Investigate providers.	**7/29/16, 4:45 PM**	**12/30/16, 5:00 PM**	**22w 0.25h**	**82%**									
1.5.1) Research which provider or hosted solution is best.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%			Evan			7/29/16, 4:45 PM			
1.5.2) Work with provider to upgrade and maintain RT installation.	8/5/16, 4:45 PM	12/30/16, 5:00 PM	21w 0.25h	80%	1.5.1		Evan			8/5/16, 4:15 PM			
1.5.3) Make an inventory of all of our 'RT' scrips and discard those which are no longer necessary for migration.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%			Evan			7/29/16, 4:45 PM			
1.6) Migrate tape backup archive to BackBlaze.	**4/28/16, 8:00 AM**	**12/16/16, 5:00 PM**	**33w 2d**	**100%**						**4/25/16, 11:30 AM**			
1.6.1) Get BackBlaze certified with OGC/HUIT	7/29/16, 4:45 PM	8/1/16, 4:45 PM	1d	100%			Evan			7/29/16, 4:45 PM			
1.6.2) Buy and install host which performs backups	8/1/16, 8:00 AM	8/1/16, 5:00 PM	1d	100%			Sarah			8/1/16, 8:00 AM			
1.6.3) Work with BackBlaze to find the most efficient way of pushing this data	4/28/16, 8:00 AM	4/28/16, 5:00 PM	1d	100%			Evan			4/28/16, 8:00 AM			
1.6.4) Use HashBackup	8/1/16, 8:00 AM	8/8/16, 8:15 AM	1w 0.25h	100%			Evan			8/1/16, 8:00 AM			
1.6.5) Measure performance and reliability of process; backup data to tapes and BackBlaze	8/8/16, 8:15 AM	8/15/16, 8:15 AM	1w	100%	1.6.4		Evan			5/2/16, 11:00 AM			
1.6.6) Find out what we need to backup, and when	8/1/16, 8:00 AM	8/1/16, 5:00 PM	1d	100%			Sarah			8/1/16, 8:00 AM			
1.6.7) Re-write documentation on backing up user, project data, and restoration to conform to BackBlaze backup system.	11/21/16, 8:00 AM	12/16/16, 5:00 PM	4w	100%			Evan			11/20/16, 8:00 AM			
1.7) Migrate all web services, except ShinyServer, to Heroku, including DVN.	**4/25/16, 8:15 AM**	**3/1/17, 5:00 PM**	**44w 2d 7.75h**	**72%**									
1.7.1) Migrate and decommission Jenkins, reuse.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%			Evan			7/29/16, 4:45 PM			
1.7.2) Work with Salesforce/Heroku to build an HMDC Heroku Enterprise contract	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%			Evan			7/29/16, 4:45 PM			
1.7.3) Create a basic-enterprise HMDC Heroku account with some limits.	8/1/16, 8:00 AM	8/1/16, 5:00 PM	1d	100%			Evan			8/1/16, 8:00 AM			
1.7.4) Give Raman access to a basic Heroku account and ask him to deploy Dataverse Network to its and its components.	7/29/16, 4:30 PM	8/2/16, 4:30 PM	2d	100%			Evan			7/29/16, 4:30 PM			
1.7.5) Certify Heroku with OGC	5/4/16, 8:00 AM	5/4/16, 5:00 PM	1d	100%			Evan			5/4/16, 8:00 AM			
1.7.6) Create a Heroku account and deploy Latanya's PHP application to it.	**7/29/16, 4:45 PM**	**8/5/16, 4:45 PM**	**1w**	**100%**									
1.7.6.1) If successful, work with Latanya to migrate one of her websites entirely to Heroku to test the viability of this environment.	7/29/16, 4:45 PM	8/5/16, 4:45 PM	1w	100%			Evan			7/29/16, 4:45 PM			
1.7.7) Work with Heroku to determine enterprise pricing for the amount of web sites we host.	7/29/16, 4:30 PM	8/3/16, 4:30 PM	3d	100%			Evan			7/29/16, 4:30 PM			
1.7.8) Determine the best method to migrate our users permissions to Heroku: How much CPU time should they get? How much memory should they get? Should they be allowed to provision as many websites as they want, etc.	7/29/16, 4:30 PM	8/5/16, 4:30 PM	1w	100%			Evan			7/29/16, 4:30 PM			
1.7.9) Determine the best method for file storage on Heroku — using an S3 bucket, connecting to our local NetApp, etc.	7/29/16, 4:30 PM	8/5/16, 4:30 PM	1w	100%			Evan			7/29/16, 4:30 PM			
1.7.10) Work with Gary and Cris to decide how much support we provide for users in the Heroku environment: Do we help them setup GitHub repositories? Do we help them with basic PHP programming fundamentals, permissions?	7/29/16, 4:30 PM	8/3/16, 4:30 PM	3d	100%			Brad			7/29/16, 4:30 PM			
1.7.11) Migrate all sites to Heroku. Provide a deadline.	4/25/16, 8:15 AM	3/1/17, 8:15 AM	44w 2d	75%			Evan						
1.7.12) Ask DVN to migrate their entire toolchain to the Cloud. Provide a deadline.	8/1/16, 8:00 AM	3/1/17, 5:00 PM	30w 3d	60%			Evan			8/1/16, 8:00 AM			
2) Work with Microsoft to build RCE-in-Azure launching pad	4/27/16, 8:00 AM	12/6/16, 9:45 AM	31w 4d 1.75h	100%			Evan			4/27/16, 8:00 AM			
3) AWS/AZURE/Cloud migration preparations complete	3/1/17, 5:00 PM	3/1/17, 5:00 PM		100%	1, 2					12/12/16, 2:00 PM			
4) Test RCE/Azure PoC with a small user-base	1/2/17, 8:00 AM	1/13/17, 5:00 PM	2w	0%						1/1/17, 5:00 AM			
5) Re-design authentication/authorization	**5/22/17, 8:00 AM**	**5/22/17, 5:00 PM**	**1d**	**7%**						**5/22/17, 8:00 AM**			
5.1) Create a small web app — my.hmdc — to sync accounts.	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	28%						5/22/17, 8:00 AM			
5.2) Work with Harvard IAM to develop security procedures around LDAP re-writes.	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	0%						5/22/17, 8:00 AM			
5.3) Develop re-write engine to sync Harvard Key and local LDAP accounts.	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	0%						5/22/17, 8:00 AM			
5.4) Re-write documentation wrt. account creation and meet with Soner's team.	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	0%						5/22/17, 8:00 AM			
6) Re-design RCE/Azure to support multi-cloud submission	**1/16/17, 8:00 AM**	**8/1/17, 5:00 PM**	**28w 2d**	**10%**	**4**					**1/1/17, 8:00 AM**			
6.1) Use docker containers for applications rather than stored images, export with XPRA.	1/16/17, 8:00 AM	2/16/17, 5:00 PM	4w 4d	6%			Evan			12/12/16, 8:00 AM			
6.2) Install Rancher environment to Clouds	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	0%						5/22/17, 8:00 AM			
6.3) Install Kubernetes environment to Clouds	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	0%						5/22/17, 8:00 AM			
6.4) Integrate Harvard Open Nebula	5/22/17, 8:00 AM	5/22/17, 5:00 PM	1d	0%						5/22/17, 8:00 AM			
6.5) Build REDIS queue and worker to distribute tasks to multiple clouds	2/16/17, 8:00 AM	3/16/17, 5:00 PM	4w 1d	0%			Evan			2/16/17, 8:00 AM			
6.6) Build docker images for HTCondor negotiator, collector, and schedd for AWS with redundancy	2/16/17, 8:00 AM	3/16/17, 5:00 PM	4w 1d	0%			Evan			2/16/17, 8:00 AM			
6.7) Redesign RCE/Azure application to submit jobs to redis queue and manage jobs through the redis queue and associated workers	3/16/17, 8:00 AM	4/14/17, 3:00 PM	4w 1d 6h	100%			Evan			3/16/17, 8:00 AM			
6.8) Scale NodeJS web service appropriately using npm-cluster/multiple workers	5/16/17, 8:00 AM	6/16/17, 5:00 PM	4w 4d	0%			Evan			5/16/17, 8:00 AM			
6.9) Implement tests for NodeJS code	6/16/17, 8:00 AM	7/14/17, 5:00 PM	4w 1d	0%			Evan			6/16/17, 8:00 AM			
6.10) Use Terraform to create abstract cloud configurations for AWS, Azure, Google	1/16/17, 8:00 AM	3/16/17, 5:00 PM	8w 4d	0%			Evan			12/12/16, 8:00 AM			
6.11) Auto-build and test docker images	3/16/17, 8:00 AM	4/14/17, 5:00 PM	4w 2d	0%			Evan			3/16/17, 8:00 AM			
6.12) Implement monitoring for RCE Cloud	6/16/17, 8:00 AM	8/1/17, 5:00 PM	6w 3d	10%			Evan			6/16/17, 8:00 AM			
6.13) Allow mounting of home directories - CI3/CI4 to Azure and CI3/CI4 to Amazon	5/1/17, 8:00 AM	6/1/17, 5:00 PM	4w 4d	0%			Evan			5/1/17, 8:00 AM			
7) SID public beta release	8/1/17, 5:00 PM	8/1/17, 5:00 PM		0%	4, 6					8/1/17, 5:00 PM			
8) Resolve any outstanding bugs acquired from BETA release	8/2/17, 8:00 AM	9/29/17, 5:00 PM	8w 3d	0%	7					12/12/16, 8:00 AM			
9) Begin to migrate users to RCE Cloud	10/2/17, 8:00 AM	11/1/17, 5:00 PM	4w 3d	0%	8					10/1/17, 8:00 AM			
10) Migrate most services to Cloud	**3/2/17, 8:00 AM**	**3/8/17, 5:00 PM**	**1w**	**100%**	**3**					**5/2/16, 8:00 AM**			
10.1) Slowly de-commission execute nodes, sell or move to recycling.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%			Sarah			7/29/16, 4:30 PM			
10.2) De-commission RCE Login nodes, sell or cycle, migrate licenses to Cloud.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%			Sarah			7/29/16, 4:45 PM			
10.3) With all web apps migrated to Heroku, turn off and recycle www-* hosts.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%			Sarah			7/29/16, 4:45 PM			
10.4) Migrate pertinent fs-4 tasks to another host, turn off and recycle fs-4.	3/2/17, 8:00 AM	3/8/17, 5:00 PM	1w	100%			Evan			7/29/16, 4:45 PM			
10.5) With RT migrated to cloud provider, turn off RT and recycle.	3/2/17, 8:00 AM	3/2/17, 5:00 PM	1d	100%			Sarah			7/29/16, 4:45 PM			

RCECloud: Timeline

Type	Resource	Units
	• Evan	100%
	• Brad	100%
	• Sarah	100%
	• Bill	100%