DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems	
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eport Contents							
ank ID	Name	State	Plan Est	Task Est	То До	Discussion Count	Owne
			92.5	73.0	73.0		
US11	Access Security Audit System	DPCA	25.0	20.0	20.0	0	Stephe
TA15	Establish Windows Virtual Machine Environment	DPC	16.0	16.0	16.0	0	Roma
TA14	Code Shell for Security Auditor App	DPC	4.0	4.0	4.0	0	Allen
US3	Assign Risk Ratings to Users	DPCA	25.0	20.0	20.0	0	Stephe
TA1	Design and Code Common Risk Rating Template	DPC	8.0	8.0	8.0	0	Allen
TA16	Implement Data Storage for Risk Ratings	DPC	4.0	4.0	4.0	0	Allen
TA2	Identify User-specific Risk Ratings	DPC	4.0	4.0	4.0	0	Allen
TA4	Code User-specific instance of Risk Rating Assessor	DPC	4.0	4.0	4.0	0	Allen
US2	Assign Risk Ratings to Devices	DPCA	10.0	8.0	8.0	0	Stepho
TA5	Identify Device-specific Risk Ratings	DPC	4.0	4.0	4.0	0	Allen
TA6	Code Device-specific Risk Rating Assessor	DPC	4.0	4.0	4.0	0	Allen
US1	Assign Risk Ratings to Locations	DPCA	10.0	8.0	8.0	0	Stephe
TA7	Identify Location-specific Risk Ratings	DPC	4.0	4.0	4.0	0	Allen
TA8	Code Location-specific Risk Rating Assessor	DPC	4.0	4.0	4.0	0	Allen
US4	Assign Risk Ratings to Targets	DPCA	10.0	8.0	8.0	0	Stephe
TA9	Identify Target-specific Risk Rating Factors	DPC	4.0	4.0	4.0	0	Allen
TA10	Code Target-specific Risk Rating Assessor	DPC	4.0	4.0	4.0	0	Allen
US5	Assign Risk Ratings to Knowledge Factors	DPCA	12.5	9.0	9.0	0	Steph
TA13	Identify Knowledge Factors to Use	DPC	1.0	1.0	1.0	0	Allen
TA11	Identify Knowledge Factor-specific Risk Ratings	DPC	4.0	4.0	4.0	0	Allen
TA12	Code Knowledge Factor-specific Risk Rating Assessor	DPC	4.0	4.0	4.0	0	Allen

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DARPA RA-11-52 R	Risk Mitigation Metric in Multifactor Authentication Systems	
US11: Access Security Audit System		
General		
ID:	: US11	
Name:	: Access Security Audit System	
Tags:	:	
Description:	: As a Security Auditor , I need to Launch the Risk Assessor Application so that I can manage Risk Assessment Profiles of Users, Devices, Locations, Targets, and Knowledge Factors. This User Story covers the need to (a) have a test environment that the remainder of the project will use for post-sprint Acceptance Testing and ultimately for Final implementation demonstration and data gathering; and (b) the need to have Security Audit Management Tool application that will be used to assign risk factors that the RMM will later access.	a
Attachments:	:	
Owner:	: Stephen	
Hierarchy		
Parent:	:	
Schedule		
State:	:: Defined Blocked: false	
Ready:	: true Blocked Reason:	
Iteration:	: Sprint 1	
Plan Est:	: 25.0 Points Task Est: 20.0 Hours	
To Do:	: 20.0 Hours	
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Authentic	ation Systems	
TA15: Establish Windows Virtual Machine Environment			
General			
	TA15		
Name:	Establish Windows Virtual Machine Environmen	t	
Tags:			
Description:		soft Windows operating system and implementing the >NET framewor n library will need to be available as well. Further requirements may a	
Attachments:			
Owner:	Roman		
Task			
State:	Defined	Blocked: false	
Ready:	true	Blocked Reason:	
Estimate:	16.0 Hours		
To Do:	16.0 Hours		
Work Product:	US11: Access Security Audit System		
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DARPA RA-11-52 R	Risk Mitigation Metric in Multifactor Authentication Syste	ms	
TA14: Code Shell for	or Security Auditor App		
General			
ID:	TA14		
Name:	Code Shell for Security Auditor App		
Tags:			
Description:	, , ,	Tool is required. The outer shell should simply ask the user to get, or Knowledge Factor information, and the appropriate veril.	. ,
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	true	locked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US11: Access Security Audit System		
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Au	thentication Systems
US3: Assign Risk F	Ratings to Users	
General		
ID:	US3	
Name:	Assign Risk Ratings to Users	
Tags:		
Description:	Ineed to assign risk ratings to Users so that I can derive a Composite Risk Score for a User This User Story deals with the ability to use the Security Audit Management Tool application to define Risk Situations related to different classes of User. For purposes of this project, we anticipate needing to create three classes of User: * Low Risk User (for example, a rank-and-file employee in a company) * Medium Risk User (for example, a line manager in a company) * High Risk User (for example, a "C"-level manager in a company) (NOTE: These are examples. Actual User "names" and descriptions may vary.)	
	Stephen	
Hierarchy	СССРПСП	
Parent:		
Schedule		
State:	Defined	Blocked: false
Ready:	false	Blocked Reason:
Iteration:	Sprint 1	
Plan Est:	25.0 Points	Task Est: 20.0 Hours
To Do:	20.0 Hours	
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DARPA RA-11-52 R	DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems		
TA1: Design and C	ode Common Risk Rating Template		
General			
ID:	TA1		
Name:	Design and Code Common Risk Rating Ten	plate	
Tags:			
Description:	A common framework for defining Risk Factors that asks the Security Auditor to provide specific information related to the enitit in question (e.g. Is the user a Manager? Does the target system contain sensitive information? Is the access attempt originating in a Starbucks in Beijing?) Several such questions would be answered by selecting answers from drop-down menus. The result would be accumulated according to a predetermined formula to arrive at a Risk Factor for the given situation and would be stored in a database for subsequent retrieval and management.		
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	true	Blocked Reason:	
Estimate:	8.0 Hours		
To Do:	8.0 Hours		
Work Product:	US3: Assign Risk Ratings to Users		
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DARPA RA-11-52 R	DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems		
TA16: Implement D	ata Storage for Risk Ratings		
General			
ID:	TA16		
Name:	Implement Data Storage for Risk Ratings		
Tags:			
Description:	A data repository to permit storage and retrieval of Risk Fa and update records in this repository. The RMM will retrie		The Security Auditor Management Tool will create
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked:	false
Ready:	true	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US3: Assign Risk Ratings to Users		
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DARPA RA-11-52 R	Risk Mitigation Metric in Multifactor Authentica	tion Systems	
TA2: Identify User-	TA2: Identify User-specific Risk Ratings		
General			
ID:	TA2		
Name:	Identify User-specific Risk Ratings		
Tags:			
Description:	Situation. For each factor, determine the compo	surable or identifiable factor components can be used to define a given Ri nent scores for each option that the Security Auditor will be presented wil component when determining the overall Risk Factor for the given Risk Si	h.
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US3: Assign Risk Ratings to Users		
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DARPA RA-11-52 R	lisk Mitigation Metric in Multifactor Authentication Sy	stems	
TA4: Code User-sp	TA4: Code User-specific instance of Risk Rating Assessor		
General			
ID:	TA4		
Name:	Code User-specific instance of Risk Rating Assessor		
Tags:			
Description:	Code an instance of the Common Risk Factor Template	to implement User-s	specific components and calculations.
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked:	false
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US3: Assign Risk Ratings to Users		
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	isk Mitigation Metric in Multifactor Au	
JS2: Assign Risk Ratings to Devices		
General		
ID:	US2	
Name:	Assign Risk Ratings to Devices	
Tags:		
Description:	different classes of Device. For purposes of this project, we anticip * Low Risk Device (for example, the de * Medium Risk Device (for example, a * High Risk Device (for example, an iP	sk Score for a Device of use the Security Audit Management Tool application to define Risk Situations related to leate needing to create three classes of Device: esktop machine with an "in office" network ID) desktop machine with an "out of office" network ID) and) device" and "location" that needs to be worked out.
Attachments:		
Owner:	Stephen	
Hierarchy		
Parent:		
Schedule		
State:	Defined	Blocked: false
Ready:	false	Blocked Reason:
Iteration:	Sprint 1	
Plan Est:	10.0 Points	Task Est: 8.0 Hours
To Do:	8.0 Hours	
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DARPA RA-11-52 R	DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems		
TA5: Identify Devic	e-specific Risk Ratings		
General			
ID:	TA5		
Name:	Identify Device-specific Risk Ratings		
Tags:			
Description:	Situation. For each factor, determine the compo	easurable or identifiable factor components can be used to define a given Risk nent scores for each option that the Security Auditor will be presented with. component when determining the overall Risk Factor for the given Risk Situation	
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	true	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US2: Assign Risk Ratings to Devices		
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Authentication Sys	stems	
TA6: Code Device-	specific Risk Rating Assessor		
General			
ID:	TA6		
Name:	Code Device-specific Risk Rating Assessor		
Tags:			
Description:	Code an instance of the Common Risk Factor Template t	to implement Devic	e-specific components and calculations.
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked:	false
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US2: Assign Risk Ratings to Devices		
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DARPA RA-11-52 R	Risk Mitigation Metric in Multifactor Authentication Sy	ystems
US1: Assign Risk F	Ratings to Locations	
General		
ID:	US1	
Name:	Assign Risk Ratings to Locations	
Tags:		
Description:	As a Security Auditor , I need to assign risk ratings to Locations so that I can derive a Composite Risk Score for a L This User Story deals with the ability to use the Securit different classes of Location. For purposes of this project, we anticipate needing to constant the state of the security of the secu	ry Audit Management Tool application to define Risk Situations related to create three classes of User: lesk designated for the user) at some desk other than the user's) ing, China)
Attachments:		
Owner:	Stephen	
Hierarchy		
Parent:		
Schedule		
State:	Defined	Blocked: false
Ready:	false	Blocked Reason:
Iteration:	Sprint 1	
Plan Est:	10.0 Points	Task Est: 8.0 Hours
To Do:	8.0 Hours	
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Authenti	cation Systems
TA7: Identify Locat	ion-specific Risk Ratings	
General		
ID:	TA7	
Name:	Identify Location-specific Risk Ratings	
Tags:		
Description:	Situation. For each factor, determine the com	f measurable or identifiable factor components can be used to define a given Risk conent scores for each option that the Security Auditor will be presented with. The component when determining the overall Risk Factor for the given Risk Situation
Attachments:		
Owner:	Allen	
Task		
State:	Defined	Blocked: false
Ready:	true	Blocked Reason:
Estimate:	4.0 Hours	
To Do:	4.0 Hours	
Work Product:	US1: Assign Risk Ratings to Locations	
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Authenticatio	n Systems	
		•	
TA8: Code Location	n-specific Risk Rating Assessor		
General			
ID:	TA8		
Name:	Code Location-specific Risk Rating Assessor		
Tags:			
Description:	Code an instance of the Common Risk Factor Temp	late to implement Location-specific components and calculations.	
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US1: Assign Risk Ratings to Locations		
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DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems			
US4: Assign Risk F	tatings to Targets		
General			
ID:	US4		
Name:	Assign Risk Ratings to Targets		
Tags:			
Description:	As a Security Auditor , I need to assign risk ratings to Targets so that I can derive a Composite Risk Score for a 1	Target	
	This User Story deals with the ability to use the Security Audit Management Tool application to define Risk Situations related different classes of Target. For purposes of this project, we anticipate needing to create three classes of User: * Low Risk Target (for example, an external website on the company's "approved" list) * Medium Risk Target (for example, the company's email system) * High Risk Target (for example, the company's transaction processing / financial management system) (NOTE: These are examples. Actual Target "names" and descriptions may vary.)		
Attachments:			
Owner:	Stephen		
Hierarchy			
Parent:			
Schedule			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Iteration:	Sprint 1		
Plan Est:	10.0 Points	Task Est: 8.0 Hours	
To Do:	8.0 Hours		
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DARPA RA-11-52 R	tisk Mitigation Metric in Multifactor Authentica	tion Systems		
TA9: Identify Targe	TA9: Identify Target-specific Risk Rating Factors			
General				
ID:	TA9			
Name:	Identify Target-specific Risk Rating Factors			
Tags:				
Description:	Situation. For each factor, determine the compo	asurable or identifiable factor components can be used to define a given R nent scores for each option that the Security Auditor will be presented with component when determining the overall Risk Factor for the given Risk Situ	١.	
Attachments:				
Owner:	Allen			
Task				
State:	Defined	Blocked: false		
Ready:	true	Blocked Reason:		
Estimate:	4.0 Hours			
To Do:	4.0 Hours			
Work Product:	US4: Assign Risk Ratings to Targets			
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DARPA RA-11-52 F	tisk Mitigation Metric in Multifactor Authen	tication Systems	
TA10: Code Target	-specific Risk Rating Assessor		
General			
ID:	TA10		
Name:	Code Target-specific Risk Rating Assessor		
Tags:			
Description:	Code an instance of the Common Risk Factor	r Template to implement Target-specific components and calculations.	
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US4: Assign Risk Ratings to Targets		
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor	Authentication Systems	
US5: Assign Risk F	Ratings to Knowledge Factors		
General			
ID:	US5		
Name:	Assign Risk Ratings to Knowledge Fa	ctors	
Tags:			
Description:	As a Security Auditor , I need to assign risk ratings to Kr so that I can derive a Composite F	nowledge Factors Risk Score for a Knowledge Factor	
	This User Story deals with the ability to use the Security Audit Management Tool application to define Risk Situations redifferent specific Knowledge Factors. For purposes of this project, we anticipate needing to create three classes of Knowledge Factor: * Low Risk Factor (for example, what's the special word we asked you to create as a 'second password') * Medium Risk Factor (for example, who was your favorite elementary school teacher?) * High Risk Factor (for example, what was your mother's maiden name?)		
Attachments:	(vo. 12) most and stamped victors.	quiestions, factor/situation names, and descriptions may vary.)	
Owner:	Stephen		
Hierarchy			
Parent:			
Schedule			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Iteration:	Sprint 1		
Plan Est:	12.5 Points	Task Est: 9.0 Hours	
To Do:	9.0 Hours		
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Authentication	Systems	
		-	
TA13: Identify Kno	wledge Factors to Use		
General			
ID:	TA13		
Name:	Identify Knowledge Factors to Use		
Tags:			
Description:	Determine a list of knowledge factor questions to be	ised in the demo.	
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	true	Blocked Reason:	
Estimate:	1.0 Hours		
To Do:	1.0 Hours		
Work Product:	US5: Assign Risk Ratings to Knowledge Factors		
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DARPA RA-11-52 R	DARPA RA-11-52 Risk Mitigation Metric in Multifactor Authentication Systems		
TA11: Identify Know	wledge Factor-specific Risk Ratings		
General			
ID:	TA11		
Name:	Identify Knowledge Factor-specific Risk Ratings		
Tags:			
Description:	given Risk Situation. For each factor, determine the con	f measurable or identifiable factor components can be used to define a nponent scores for each option that the Security Auditor will be presented omponent when determining the overall Risk Factor for the given Risk	
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US5: Assign Risk Ratings to Knowledge Factors		
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DARPA RA-11-52 R	isk Mitigation Metric in Multifactor Authentication S	ystems	
TA12: Code Knowl	edge Factor-specific Risk Rating Assessor		
General			
ID:	TA12		
Name:	Code Knowledge Factor-specific Risk Rating Assessor		
Tags:			
Description:	Code an instance of the Common Risk Factor Templat	e to implement KNowledge factor-specific components and calculat	ons.
Attachments:			
Owner:	Allen		
Task			
State:	Defined	Blocked: false	
Ready:	false	Blocked Reason:	
Estimate:	4.0 Hours		
To Do:	4.0 Hours		
Work Product:	US5: Assign Risk Ratings to Knowledge Factors		
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