

IT Capstone Topic Approval Form

The purpose of this document is to help you clearly explain your capstone topic, project scope, and timeline and to ensure that they align with your degree emphasis. Without clearly addressing each of these areas, you will not have a complete and realistic overview of your project, and your course instructor cannot accurately assess whether your project will be doable for the purposes of these courses.

Of course, if this a project that you have already completed at work or elsewhere, this should be easy to fill in! Most students use a project that they have already completed in the past year or two. In that case, you will write the proposals (Tasks 1 and 2) as if the project has not been done yet, and Task 3 as the complete post-implementation report.

Complete this form and send it directly back to your course instructor for approval. Once approved, you will receive a signed document in PDF format that you can upload as part of Task 1.

DEGREE EMPHASIS:

ANALYSIS:

Project Topic – Rogue IT, a large information security company seek to improve their email security posture and reliability. This will include migrating the existing email infrastructure from on-premise to the Symantec Email Security.cloud service.

Briefly describe

Problem Statement or Project Purpose – Currently Rogue IT manages an on-premise MS Exchange environment for their email purposes. Due to the increases seen in phishing attempts and multiple events including business email compromise it has been recommended that Rogue IT cease maintaining the existing on-prem environment security controls, instead migrating the security policies of the current email infrastructure to Symantec Email Security.cloud. The purpose of the project will be to standup Symantec Email Security.cloud as a service, at which point the existing on-prem security measures will depreciated. This will provide less overall maintenance, while increasing the security posture for Rogue IT's email infrastructure.

DESIGN and DEVELOPMENT:

Project Scope

a. Project Goal(s) and Supporting Objectives –

1. Determine existing security policies for on-prem Exchange environment
2. Configure Symantec Email Security.cloud with security policies from on-prem Exchange environment
3. Configure Edge firewall environment to allow for the IP space used by Symantec Email Security.cloud to allow ingress/egress email flow appropriately.
4. Validation of DNS record configuration to ensure DKIM, SPF, and DMARC are correctly configured.
5. Cut MX records over to point DNS records to resolve the Symantec Email Security.cloud host.

- b. Project Outcomes and Deliverables –
 - 1. Improved security posture for the email infrastructure at Rogue IT
 - 2. Ease of use configuration and faster deployment of new security policies pertaining to email
 - 3. Redundancy and replication of email environment to third party systems for business continuity and resiliency.
 - 4. Transference of risk

- c. Projected Project End Date – The project should be completed in within three weeks of the project start date. Approximately December 22, 2022. This will give Rogue IT the time needed to configure Symantec Email Security.cloud, make the changes to the DNS records, ensure correct policy configuration for email security policies, and train the team to use the service.

IMPLEMENTATION and EVALUATION:

Describe how you will approach the execution of your project –

- 1. Determine existing security policies for on-prem Exchange environment
- 2. Configure Symantec Email Security.cloud with security policies from on-prem Exchange environment
- 3. Configure Edge firewall environment to allow for the IP space used by Symantec Email Security.cloud to allow ingress/egress email flow appropriately.
- 4. Validation of DNS record configuration to ensure DKIM, SPF, and DMARC are correctly configured.
- 5. Cut MX records over to point DNS records to resolve the Symantec Email Security.cloud host.

X This project does not involve human subjects research and is exempt from WGU IRB review.

COURSE INSTRUCTOR SIGNATURE:

COURSE INSTRUCTOR APPROVAL DATE: November 6, 2022

A handwritten signature in black ink, appearing to read "Joe Barnhart", is written over a light blue horizontal line.