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Disaster Recovery - Network

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ITTN-056

Latest Revision: 2023-11-28

DRAFT



Abstract

Details of network devices Disaster Recovery plan

Draft

Change Record

Version	Date	Description	Owner name
1	2023-03-02	Unreleased.	Cristian Silva
1	2023-11-20	Early draft	Cristian Silva

Document source location: <https://github.com/lstt-it/ittn-056>

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Disaster Recovery - Network

1 Introduction

This Technical Disaster Recovery Document is crafted as a response against events that may cause disruptions of our operations. We aim not only to mitigate the impact of potential crises but to ensure the rapid restoration of critical technical systems.

2 Risk Assessment

Identify potential risks and threats to the organization's IT infrastructure. Categorize risks based on severity and likelihood.

3 Backup and Recovery Procedures

The following outlines the backup schedules for critical data and systems, and the data restoration strategy

3.1 Backup Procedure

The network backup is scheduled to run twice daily on both summit and base devices. The backup encompasses Switches, routers, and Firewalls. It's specifically designed to exclude any sensitive information like keys or passwords. Once completed, the backup is pushed to a private repository.

3.2 Restore Procedures

In the event of device failure or replacement, the restoration process offers three options:

3.2.1 Manual Restoration

Access the repository to retrieve the last backup of the device. Manually reconfigure the new device based on the retrieved backup. Suitable for situations requiring a manual review and setup of a new device.

3.2.2 Zero-Touch Provisioning (In Progress)

Utilize a preliminary configuration on new devices. Upon startup, the device automatically updates its software and retrieves the latest backup from the repository. Simplifies and automates the restoration process for newly deployed devices.

3.2.3 Infrastructure as Code (In Progress)

Leveraging the repository network, a sequence of tasks is designed to reconstruct and upgrade device configurations. Embraces an infrastructure-as-code approach, allowing for streamlined rebuilding and upgrading of devices.

4 Emergency Response Team

Designate roles and responsibilities for the Emergency Response Team. Establish communication channels and protocols during a crisis.

4.1 Incident Commander (IC)

- Assumed control, coordinating with technical experts and relevant stakeholders.
- Prioritized resolution tasks to restore network functionality swiftly.

IC should usually be the Devops Manager, in his absence a Network team member can take the role.

4.2 Communications

- Facilitated the rapid deployment of technical resources and tools.
- Established a centralized communication hub for real-time updates.

Communications will be taken care by Devops Manager, in his absence another team member, not performing technical tasks can take the role.

4.3 Technical Support and Analysis

- Diagnosed the root cause of the incident and devised an action plan.
- Collaborated with vendors and internal teams to implement corrective measures.

5 Infrastructure Resilience

Implement measures to enhance infrastructure resilience. Ensure redundancy in critical systems and data storage.

6 Testing and Training

Conduct regular disaster recovery drills to assess the efficiency of procedures. Provide ongoing training for the response team.

7 Detection

Identify the occurrence of a disaster or disruption. Validate the severity and impact on IT systems.

8 Declaration

Authorize the activation of the Disaster Recovery Plan. Notify all relevant stakeholders and the Emergency Response Team.

9 Response

Execute predefined procedures to mitigate the impact. Implement backup restoration and system recovery protocols.

10 Communication

Maintain transparent and timely communication with all stakeholders. Provide regular updates on the recovery process.

A References

B Acronyms