



ISSN NO. 2320-5407

Journal Homepage: -www.journalijar.com

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

Article DOI:10.21474/IJAR01/8280
DOI URL: <http://dx.doi.org/10.21474/IJAR01/8280>



INTERNATIONAL JOURNAL OF
ADVANCED RESEARCH (IJAR)
ISSN 2320-5407
Journal Homepage: <http://www.journalijar.com>
Journal DOI:10.21474/IJAR01

RESEARCH ARTICLE

OPTIMIZATION OF CYBER TEAMS ROLE IN SUPPORTING THE MAIN TASK OF THE CENDRAWASIH XVII MILITARY COMMAND TO REALIZE THE NATIONAL DEFENSE IN PAPUA.

Beny Suryana¹, Setyo Widagdo² and Mukhammad Soleh³.

1. Master student of brawijaya university.
2. Postgraduate lecturer of brawijaya university.
3. Postgraduate lecturer of wisnu wardhana university.

Manuscript Info

Manuscript History

Received: 20 October 2018
Final Accepted: 22 November 2018
Published: December 2018

Abstract

The purpose of this study was to determine the role of the cyber team in supporting the main tasks of the Cenderawasih XVII Military Command and to find out the best strategies to optimize the role of cyber teams in order to support the main tasks of the Cendrawasih XVII Military Command. The approach used in this study uses a qualitative approach. Qualitative research is a research method used to examine the condition of natural objects where researchers are key instruments, triangulation collection techniques, data analysis is inductive and the results of research emphasize the meaning rather than generalization. The sampling technique used in this study was purposive sampling technique, which is the determination of sources based on consideration. Technical data analysis used descriptive analysis model. Based on the results of The Cyber Team XVII Military research Command was known to have tried to carry out its role in supporting the main tasks of the Cenderawasih XVII Military Command, especially in terms of cyber defense, including ensuring the emergence of cyber resilience in the Ministry of Defense and the Indonesian National Army as utilization of other parties, building cyber defense capacity in the form of deterrence capability, enforcement and recovery; and conducting and developing institutional management of Cyber Defense that is responsible, effective, efficient and accountable.

Copy Right, IJAR, 2017.. All rights reserved.

Introduction:-

Background:-

The current era of globalization according to Akbar (2013) opens the gap for increasing potential threats to national security, geography, geopolitics, and geostrategic of a nation to be more dynamic. Cyber according to Setyawan and Sumari (2016) can be a threat to a country because its scope can be used to steal information, disseminate destructive ideas, and attack several information systems in various fields, such as banking data and military networks and national defense systems. Cyber crime has several types based on activities or activities carried out by the perpetrators. According to Hermawan (2013) there are six types of Cyber crime, such as hacking, cracking, carding, defecting, phishing and spamming. According to Hius et.al. (2014), a number of things that led to the increasing prevalence of cyber crime including (1) Unlimited internet access, (2) Negligence of computer users (3)

Corresponding Author:-Beny Suryana.

Address:-Master student of brawijaya university.

Easy to do and difficult to trace it (4) Actors are generally people who have high intelligence and sense want to know the big one. Cyber crime has become a major threat which results in a large loss that must be experienced by a country. According to the CIA as quoted in Ardiyanti (2014) Indonesia has suffered losses reaching 1.20% of the level of losses due to cyber crime that occurred in the world.

Research Purposes:-

Based on the background of these problems, the problems in this study can be formulated as follows:

1. What is the role of the cyber team in supporting the main tasks of the Cendrawasih XVII Military Command?
2. What is the best strategy for optimizing the role of the cyber team in supporting the main tasks of the Cendrawasih XVII Military Command?

Research Methods:-

The approach used in this study uses a qualitative approach. The research method used to examine the condition of natural objects where the researcher is a key instrument, triangulation collection techniques, data analysis is inductive and the results of research emphasize the meaning rather than generalization.

Data Source:-

The data sources used in this study consist of (1) Primary data is data obtained directly from the first party. Primary data in this study originated from interviews conducted with research informants. Primary data in this study was obtained through collecting data from interviews, direct observation to representative respondents. (2) Secondary data is data obtained from the profiles of the observed internal parties as well as from various literatures of articles, books, and internet sites about designing product development and all related to the research conducted.

Location and Time of Research:-

This research was conducted at the Cendrawasih XVII Military Command. This study was beginning on August 2018 to December 2018. The time of this research is ended until the publication of the research thesis text.

Data Analysis:-

The data analysis technique used in this study is a descriptive analysis model. Technical data analysis with descriptive analysis model is done by data reduction, data presentation, conclusion drawing / verification.

Research Result And Discussion:-

Cendrawasih XVII Military Command Cyber team Role:-

The Cendrawasih XVII Military Command cyber team is an organization formed by the XVII / Cendrawasih Commander under the info Task Force which is operated by several personnel from various units who have the task of seizing the attention of the Papuan community through mastering virtual networks and media power in order to present accurate external data for the benefit of public.

The main tasks of the Cendrawasih XVII Military Command cyber team are three as follows:

1. Seize public attention through mastery of virtual networks and the power of virtual media in order to present accurate external data for the public interest (the media and stakeholders);
2. Copyright and opinion counters in cyberspace;
3. Receive public and intelligence information from related staff and units.

The Cendrawasih XVII Military Command cyber team has a duty area covering all Military Commands in the West Papua region, such as Korem 172, Korem 173, and Korem 174. The Papua region itself is an area which rich of local traditional culture which is one of Indonesia's cultural roots. However, this also illustrates the still high backwardness of the people in the interior of Papua. In carrying out its duties, The Cendrawasih XVII Military Command cyber team was faced with the social conditions of the Papuan people such as the inter-tribal vertical conflict in Kwamki in Timika Papua, the KKB which hampered the development process in Papua, as well as the KNPB demonstration to separate from the NKRI. With all the problems in Papua, the Cendrawasih XVII Military Command to keep maintaining defense in Papua made the following efforts:

1. Pam Rahwan Operation.
2. Pam Rahwan Operational Patrol
3. Hostage release operation

4. Border Pam Operation (Patroli Patok)
5. Border Pam Operation (Sweeping)
6. Pam Operation Outermost Island
7. Observation of Vital Objects
8. VVIP Security (President)

In addition, the military command also conducts territorial guidance by conducting agricultural assistance, rice harvesting with Papuans, providing education to build Papuan education, and providing assistance in infrastructure development in Papua. Territorial operations are also carried out by holding mass treatments and others. To support all efforts made by the Cendrawasih XVII Military Command, the the Cendrawasih XVII Military Command cyber team must also carry out its role optimally, especially in the cyber world. Optimizing the role of the Cendrawasih XVII Military Command cyber team will be explained in the next section.

Factors that influence the optimization of the role of the Cendrawasih XVII Military Command Cyber Team:-

In this study, the factors that influence role optimization are analyzed through four aspects of optimizing roles as follows: Human Resources, Infrastructure, Coordination and Communication, and Budget.

Human resource aspects:-

Human resources, both in terms of quantity and quality, certainly greatly influence the role they carry and everything they produce. In terms of quantity, based on the results of interviews, it was found that the number of the Cendrawasih XVII Military Command cyber team personnel was 10 people. The number of ten personnel was considered still not in accordance with their needs. This is as explained by the following Tauriq Djasa Permana Dantim, "it is still not as needed, because cyber teams are only limited to BP so that many other personnel are used by their original units." Not only that, based on interviews, knowledge from each Cyber team personnel are still lacking in particular knowledge related to technology used in working with the cyber world.

Aspects of Facilities and Infrastructure:-

The aspects of facilities and infrastructure are known to be one of the aspects that affect the optimality of roles. According to the results of the interview, it is known that the supporting tools and facilities that are very much needed by the Cendrawasih XVII Military Command cyber team personnel in carrying out their duties. In the absence of these supporting tools and facilities, the effect on the role of the Cendrawasih XVII Military Command cyber team is that their role is not optimal so the expected results will not be achieved. This is as explained in the following statement given by Serda Ricky Herdianta Zebua, "Without the supporting tools and facilities, the Cyber Team's work will not be carried out and the expected results will not be achieved".

Budget Aspects:-

The budget aspect is one of the things that influences role optimization. According to interviews, it is known that the budget given by the Cendrawasih XVII Military Command cyber team is not enough to be able to support the implementation and optimization of the role of the cyber team. Even so, the existing budget has been maximized to support the role of cyber teams. This is as explained in the following statement given by Serda Ricky Herdianta Zebua, "The budget given by the Cendrawasih XVII Military Command cyber team for the implementation of its role is sufficient but still needs to be optimized".

The Best Strategy to Optimize the Role of the Cyber Team in Order to Support the Main Tasks of the Cendrawasih XVII Military Command:-

Optimizing the role of the Cendrawasih XVII Military Command cyber team is strongly influenced by four aspects, such as human resources, tools and facilities, coordination and communication, and budget. Akbar (2013) explained that by eliminating these constraints the role would be carried out optimally. Constraints in terms of human resources, the role of the Cendrawasih XVII Military Command cyber team still cannot run optimally because of the inadequate quantity and quality of human resources. The number of personnel who were only ten people was considered still unable to meet the needs of the Cendrawasih XVII Military Command cyber team who had to monitor a large number of hoax news disseminating accounts. The number of personnel is not comparable to the tasks carried out including when shifting which initially had 3 people now living single / alone which had a big influence on media monitoring activities, making writing products, posters / pictures, videos and others. So to optimize the role of the Cendrawasih XVII Military Command cyber team, the amount of human resources must be

adjusted to the needs (Akbar, 2013). The solution that has been done to deal with this is that the cyber team has proposed adding personnel to the top command, even though until now there has been no additional personnel. Another obstacle that results in the failure of cyber teams, such as human resources, in this case personnel still lack knowledge regarding the cyber world.

The cyber team should also be given the authority to close sites and hate spreader account accounts on social media, because so far the cyber team has reported more to complaints from Kominfo's (Public information) content, but the handling is still considered to be lacking. The top command coordination (Ministry of Defense, Indonesia National Army Education Center, Military Command) with the social media providers is still not established, in this case Youtube, Facebook, Twitter, Instagram etc. so that official accounts of the Military Command-level agencies are verified to increase public trust and add elegance and the legality of the information conveyed by the ranks.

In relation to the aspects of coordination and communication, it is known that the coordination and communication of the cyber team has gone quite well by utilizing social media technology, such as WhatsApp and Telegram, as well as deliberations and member meetings. The existence of the group is an effort made by the cyber team to deal with the lack of coordination and communication that makes human resources in the organization not optimal in carrying out activities in accordance with their role. The integration of coordination and communication between the human resources involved will create a reliable organization for optimal results (Akbar, 2013). To relate to the aspect of the budget, which is a classic problem for an organization because in the achievement of its tasks it collides with budget issues? This also occurs in cyber teams where the budget they have is considered still not enough to support the activities of the cyber team itself. To that end, the fulfillment of needs with the budget of cyber teams should be increased so that the mandated role can run more optimally.

Conclusions And Suggestions:-

Conclusions :-

Based on the results of the research that has been conducted related to the optimization of the role of the Cendrawasih Kodam XVII cyber team, it can be concluded as follows:

1. The Cendrawasih XVII Military Command cyber team is known to have attempted to carry out its role in supporting the main tasks of the Cendrawasih XVII Military Command especially in cyber defense, including ensuring the emergence of cyber resilience within the Ministry of Defense and the Indonesian Army, maintaining Kemhan (National Defense Ministry)/Army information resources to be protected from interference and abuse utilization of other parties, building cyber defense capacity in the form of deterrence capability, enforcement and recovery; and conducting and developing institutional management of Cyber Defense that is responsible, effective, efficient and accountable.
2. Factors that influence the optimization of the role of cyber teams can be grouped into four aspects, there are human resources, tools and facilities, coordination and communication and budget. The human resources of the cyber team both in quantity and quality are still inadequate. The tools and facilities owned by the cyber team are still far from enough to be able to support the activities of the cyber team. Coordination and communication have gone well with the use of social media. And the budget of the cyber team is far from enough to support the activities of the cyber team.
3. The best strategy to optimize the role of the cyber team in supporting the main task of the Cendrawasih XVII Military Command is to minimize the obstacles in the four aspects, namely by increasing the number of cyber team personnel, providing training and education to improve the quality of cyber team personnel, adding appropriate tools and facilities with the need specifically for the availability of a fast internet network considering the task of the cyber team is very dependent on the internet as well as the addition of the budget in order to be able to fulfill the needs to optimally support each cyber team activity.

Suggestion:-

Based on the research that has been done the researcher can give the following suggestions:-

1. The top command (National defense Ministry, National Army Education Center, Military Command) is expected to be able to follow up on requests for additional cyber team personnel.
2. The upper command (National defense Ministry, National Army Education Center, Military Command) is expected to be able to provide training and special education for cyber teams so that the knowledge and skills of cyber team personnel increase.

3. The top command (National defense Ministry, National Army Education Center, Military Command) is expected to consider adding to the budget and procurement of better tools and facilities to support the activities of the cyber team.

Bibliography:-

1. Akbar, Andi. 2013. Optimalisasi Peran Komunitas Intelijen Daerah(Kominda) Dalam Mendukung Pemerintah Daerah Membangun Ketahanan Wilayah (Studi Di Kominda Kabupaten Demak Propinsi Jawa Tengah). Jurnal Ketahanan Nasional. Vol.XIX (3).
2. Ardiyanti, Handrini. 2014. Cyber-Security dan Tantangan Pengembangannya di Indonesia. *Politica* Vol.5 No.1.
3. Hermawan, Rudi. 2013. Kesiapan Aparatur Pemerintah Dalam Menghadapi Cyber Crime Di Indonesia. *Faktor Exacta* 6(1) ISSN 1979-276X.
4. Hius, Jurnalis J., j.Saputra dan Anasution. 2014. Mengenal Dan Mengantisipasi Kegiatan Cybercrime Pada Aktifitas Online Sehari-Hari Dalam Pendidikan. Prosiding SNIKOM ISBN: 978-602-70467-0-2.
5. Setyawan, D.Putra dan A.D.W. Sumari. 2016. Diplomasi Pertahanan Indonesia Dalam Pencapaian Cybersecurity Melalui Asean Regional Forum OnCybersecurity Initiatives. *Jurnal Penelitian Politik* Vol.13 No.1.