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2018 12

..... **ii**

..... **1**

+ **3**

..... **3**

1.1 Windows Server 1809 EC2 AMI 3

1.2 Amazon MQ PCI ISO 3

1.3 AWS Server Migration Service 4

1.4 EKS Kubernetes 1.11 4

1.5 AWS Storage Gateway 5

1.6 Amazon DynamoDB 5

1.7 Amazon MQ 5

1.8 Amazon EC2 5

2.1 VMware Stack-V 6

4.1 + =Azure UP 7

5.1 7

6.1 200%..... 8

..... **8**

1.1 OpenStack 8

2.1 EasyStack 9

2.2 EasyStack 9

2.3 EasyStack 10

3.1 10

.....**12**

1.1 12

1.2 13

1.3 TSOC Gartner SIEM 14

1.4 15

1.5 VenusEye- 16

2.1 EDR 16

3.1 Gartner 17

4.1 18

5.1 " +" 18

6.1 EDR 19

7.1 360 IDC 19

9.1 Fortinet 20

.....**21**

.....**24**

.....**27**

1.1 Artic Wolf Networks RootSecure27

2.1 Avanan 2500 B27

AWS

Windows Server 1809

EC2 AMI, Amazon MQ

, AWS Server Migration Service

, Amazon EKS

Kubernetes

1.11

,

Amazon DynamoDB

, Amazon EC2

AWS Storage Gateway

Amazon MQ

PCI

ISO

VMware

Stack-V

Azure

200%

OpenStack

EasyStack

TSOC

Gartner SIEM

VenusEye-

EDR

Gartner

+

EDR

360

IDC

Fortinet

Kubernetes 1.13

Kubernetes

Rancher ARM

K8S

Kubernetes

Azure

ACS

kuberness

2018

2018

AI

SNDBOX

Windows 10

Windows Sandbox

iOS 12.1.1

RCE

CNNVD

1

1

Arctic Wolf Networks

RootSecure

Avanan

2500

B

2018 12 29

+

AWS

1.1 Windows Server 1809 EC2 AMI

12 4 AWS Windows Server 1809 (LI)
 Amazon (AMI) Windows Server Kubernetes Windows Server
 Windows Server
 Amazon EC2 Windows Server 1809 AWS
 Windows Server (LI)
 Windows Server 1809 AMI AWS Amazon EC2
 Windows Server 1809 AMI Windows

1.2 Amazon MQ PCI ISO

12 5 Amazon MQ PCI ISO
 Amazon MQ Apache ActiveMQ
 Amazon MQ PCI DSS
 AWS Artifact PCI AWS PCI
 Amazon MQ ISO 9001 27001 27017 27018
 PCI ISO Amazon MQ SOC

HIPAA

1.3 AWS Server Migration Service

12 6 AWS Server Migration Service (SMS)

Amazon EC2

Server Migration Service

AWS Server Migration Service

1.5 AWS Storage Gateway

12 12 AWS Storage Gateway

DNS NTP

Amazon S3

500MB/s

1.6 Amazon DynamoDB

12 13 Amazon Amazon DynamoDB

DynamoDB

1.7 Amazon MQ

12 19 Amazon MQ

AWS

Amazon MQ

Apache ActiveMQ

Amazon MQ

1.8 Amazon EC2

12 20 AWS

Amazon EC2

EC2

HDFS HBase

Cassandra

EC2

VMWare

2.1 VMware

12 5

Stack-V

VMware NYSE: VMW

Stack-V

IaaS

VMware



Stack-V

GOOGLE

Azure

4.1 + =Azure UP

Azure Azure

Azure

2018

Azure

/BIOS

Azure

50

IO

CPU

Azure

Azure

5.1

CTO

CEO

TOP10

2005

6.1

12

EasyStack

OpenStack

OpenStack Ceph

Easystack

2.1 EasyStack

OpenStack

ECS

Neutron AZ

IT

2017

OpenStack

OpenStack

Neutron Availability Zone(Neutron AZ)

Neutron AZ

2.2

2.3

EasyStack





5G

边缘的架构体系 - 边缘的开源实现

Edge Infra + Edge MANO + Edge App & Services

边缘应用SaaS, 由于行业特殊性, 大部分是闭源的
边缘应用PaaS可以基于开源平台实现

- 边缘应用分发和编排TOSCA
- 工业大数据平台Hadoop
- 时序数据库InfluxDB/Kapacitor
- 流式计算Apache Flink
- 边缘操作系统OpenWrt/Berry Pi/Android
- 边缘计算平台EdgeX Foundry/Google Cloud IoT Core

M2M协议: HTTP, MQTT, CoAP, ...

时序数据库
流式计算
消息服务
编排服务
AI服务
大数据服务

IoT

A presentation slide with a blue header and white background. It features a diagram of an edge architecture stack. At the top, three boxes labeled 'Edge Infra', 'Edge MANO', and 'Edge App & Services' are connected by plus signs. A large blue arrow points down from this stack to a dashed-line box containing a vertical stack of services: '时序数据库', '流式计算', '消息服务', '编排服务', 'AI服务', and '大数据服务'. To the left of this stack is a purple cylinder representing 'M2M协议' with a list: 'HTTP', 'MQTT', 'CoAP', and '...'. A double-headed arrow connects the M2M protocols to the service stack. A speaker in a dark suit is standing in front of the slide, partially obscuring the text. A podium with the 'Interop' logo is visible on the left.

ERP WMS EMS MES

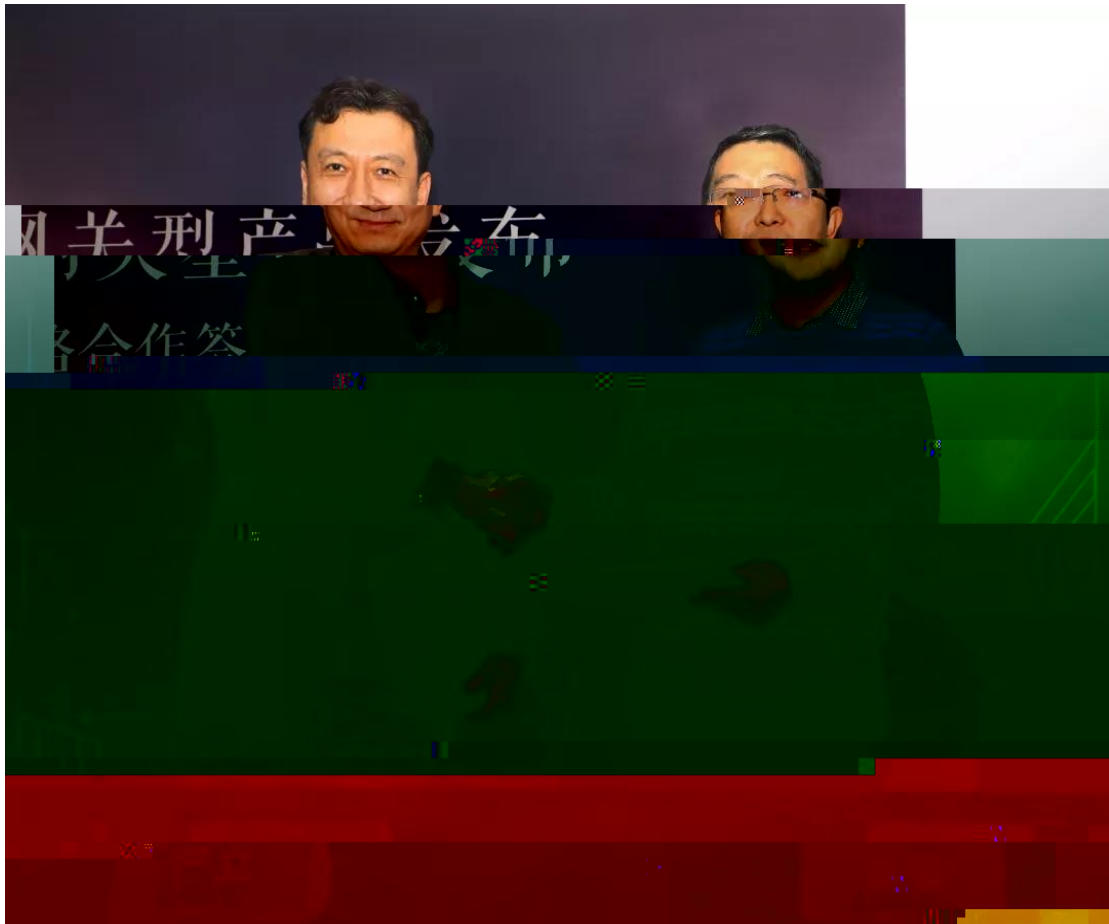
ETSI MEC

MEC

1.1

12 5

/



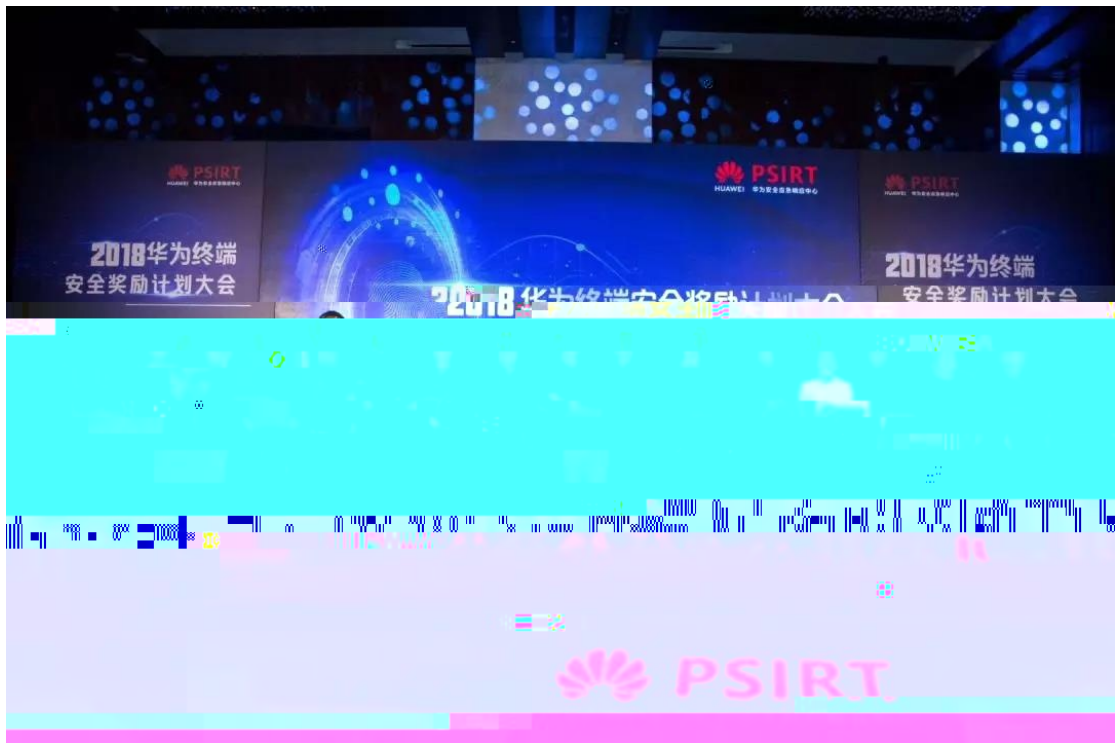
2016

80G

1.2

2018

100



ADLab

1999

Web

ADLab 2015

2016

Cloud DC Open

2017

ADLab

CNVD/CNNVD/CVE

1500

CNCERT

1.3

TSOC

Gartner SIEM

IT

Gartner

2018

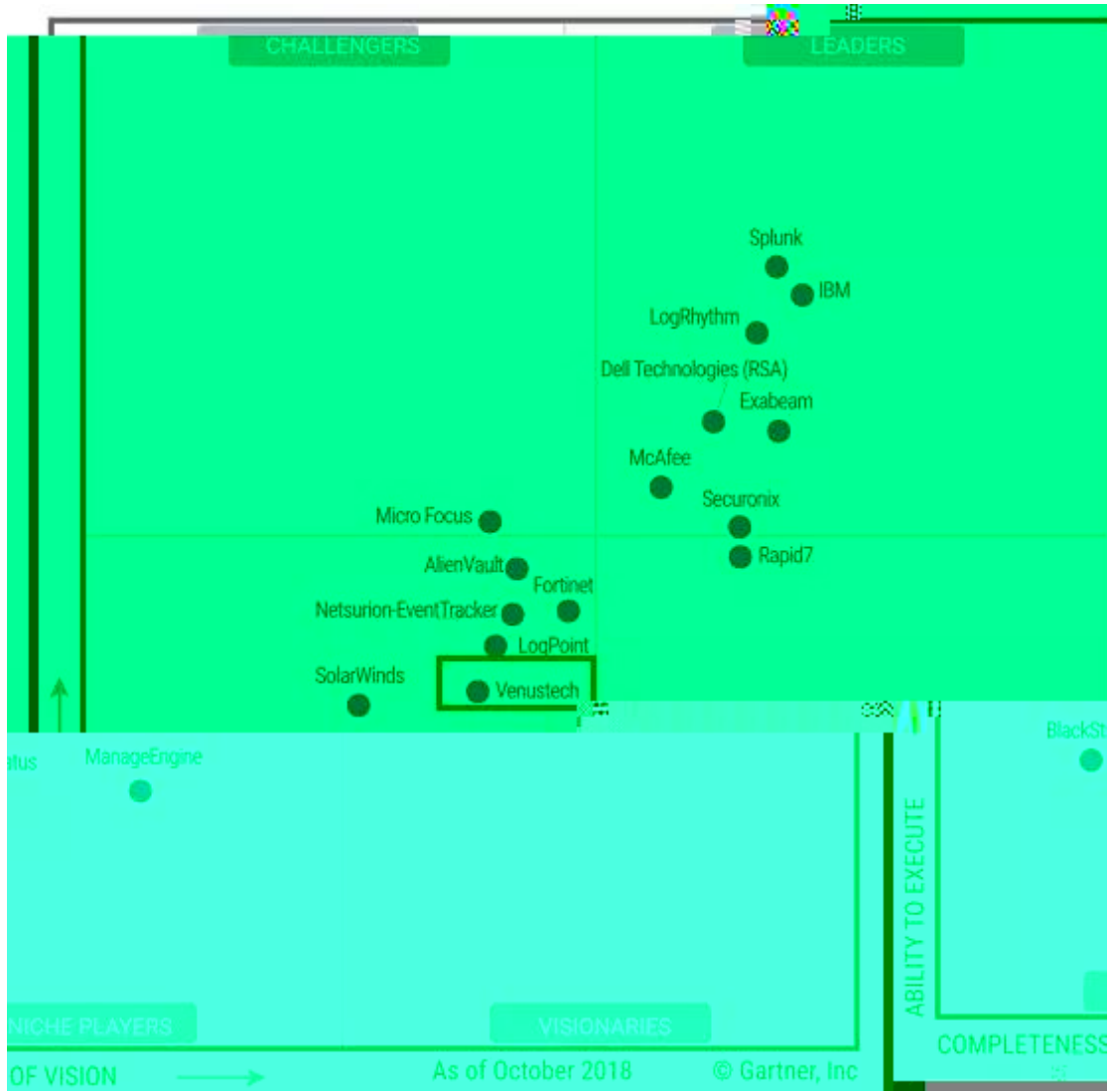
Magic Quadrant for Security

Information and Event Management

TSOC

Gartner SIEM

Gartner SIEM



2018 Gartner SIEM 200

330 ABC AI Big

Data Cloud TSOC

UEBA

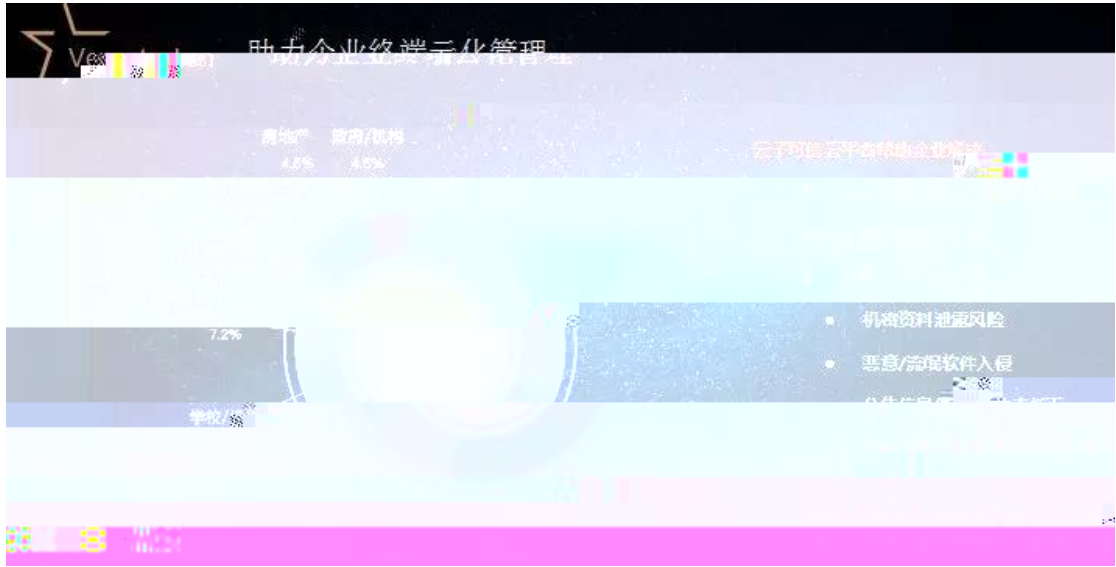
TSOC

2000 / 2.0

GDPR ISO27001 TSOC

1.4

12 13



CERT

90%

1.5 VenusEye-

VenusEye

VenusEye

VenusEye

VenusEye Portal

SaaS API

TIC

2.1 EDR



EDR

EDR

3.1 Gartner

Gartner

()

(ISCCC)

(EAL3+)

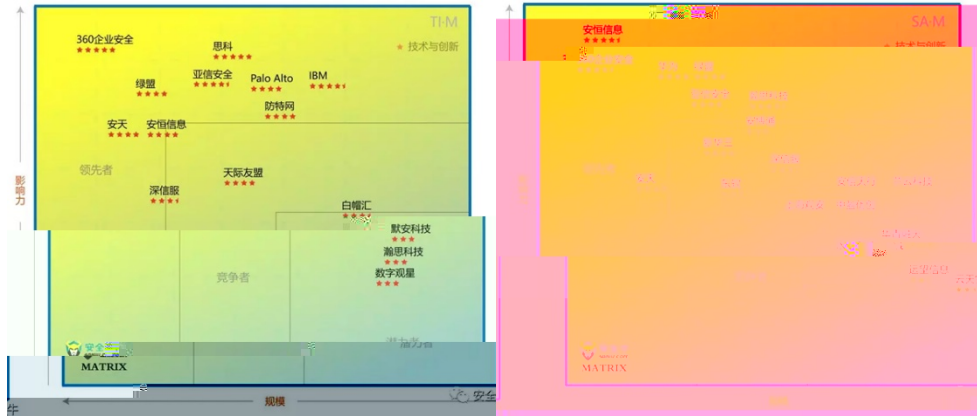
All In One

VMware KVM hyper-V XEN

AWS Azure AliCloud

OSM

4.1



(Matrix 2018.11)

2017

5.1

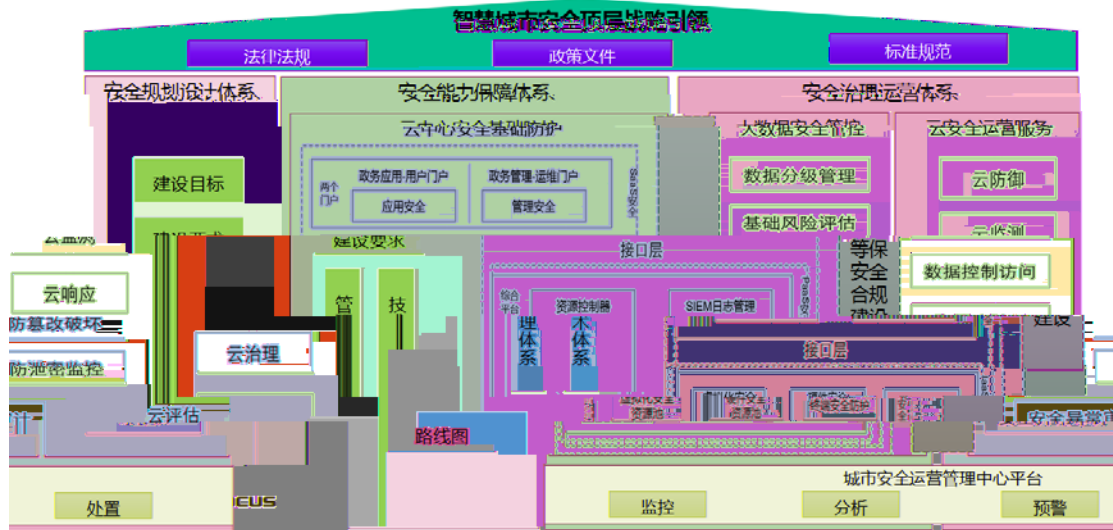
+

12 5

+

+

绿盟智慧城市总体安全保障框架



+

6.1 EDR

EDR2.0.7

®

®

PC

Web

360

7.1 360

IDC

11 30

IDC

2018

360

360

Alpha

TIP

SaaS API

360 NGSOC 360

EDR

360

IDC 360

IP

IOC

Fortinet

9.1 Fortinet

Fortinet

Fortinet

NGFW

Web Security Service WSS

Fortinet

Security Fabric

Web Security Service WSS

Fortinet FortiGate

WSS

Fortinet Security Fabric

Fortinet SD-WAN

TIPP

Web Security

Service

Checkpoint

1. Rancher ARM

K8S



2018 12 11 Kubernetes Rancher Labs Rancher

Arm

Rancher Kubernetes Engine (RKE) Rancher OS Arm Rancher

x86 Arm

Arm x86 Kubernetes

Rancher Kubernetes Rancher

Arm Kubernetes

Arm Neoverse

Arm Kevin Ryan Arm Rancher

Neoverse

2. Kubernetes 1.13

Kubernetes 2018 -Kubernetes1.13

Kubernetes

kubeadm

CSI

CoreDNS

DNS

alpha

alpha

kubelet

Kubelet

Kubelet

CSI

CNI

Kubelet

Pod

APIServer DryRun

beta

kubectrl

apiserver

bug

Kubectrl Diff

beta

kubectrl

beta

3. Kubernetes

Kubernetes

Kubernetes

Kubernetes API

Server

Rancher Laba

Darren Shepherd

CVE-2018-1002105



API Server

Kubernetes API Server

Kubernetes

Kubernetes

Kubernetes

Google

Jordan Liggitt

Kubernetes

CVE-2018-1002105

Kubernetes v1.0.x-1.9.x

Kubernetes v1.10.0-1.10.10

Kubernetes v1.11.0-1.11.4

Kubernetes v1.12.0-1.12.2

Kubernetes v1.10.11

Kubernetes v1.11.5

Kubernetes v1.12.3

Kubernetes v1.13.0-RC.1

:

API server

kube-apiserver

API server

pod exec/attach/portforward

kubelet API

4. Azure ACS

2020 1 ACS Azure Container Service
ACS Azure Kubernetes Service
ACS Docker Swarm
Mesosphere DC/OS
Azure Kubernetes
ACS API
Azure

1.

<http://www.beian.gov.cn>

syjyc@vip.126.com

010-66262319

2. 2018

2018

3397

IP

653

2611

4.8

127

1

3. iOS 12.1.1

RCE

Apple iCloud Safari iTunes macOS Mojave High Sierra
Sierra iOS 2.1.2 tvOS 12.1.1 iOS 12.1.1

iOS 12.1.1

ID

iCloud

4. SNDBOX

AI

Blackhat Europe

SNDBOX

SNDBOX

SNDBOX

SNDBOX

API

WMI

AI

SNDBOX

HTTP

POST

SNDBOX

JSON

SNDBOX

5. CNNVD

Microsoft Internet Explorer

CNNVD-201812-458

CVE-2018-8619

Microsoft Excel

CNNVD-201812-466

CVE-2018-8597

6.

Windows 10

Windows

Sandbox

Windows 10

Windows

Sandbox

Windows Sandbox

Windows

Sandbox

Sandbox

Sandbox

Windows Sandbox

Windows 10 Pro

Enterprise build 18305

BIOS

Windows

Features

Windows Sandbox

Windows Sandbox

7.

2018

2018

12

19

ICT

2018

8.

2018 12 26

1.

1.1 Artic Wolf Networks RootSecure

12 12 Artic Wolf Networks RootSecure Arctic Wolf
 Networks SOC Arctic Wolf
 RootSecure

2.

2.1 Avanan 2500 B

12 17 Avanan Greenfield Partners 2 2500 B
 Avanan