

Maarten Goet (MVP, RD)





MVP



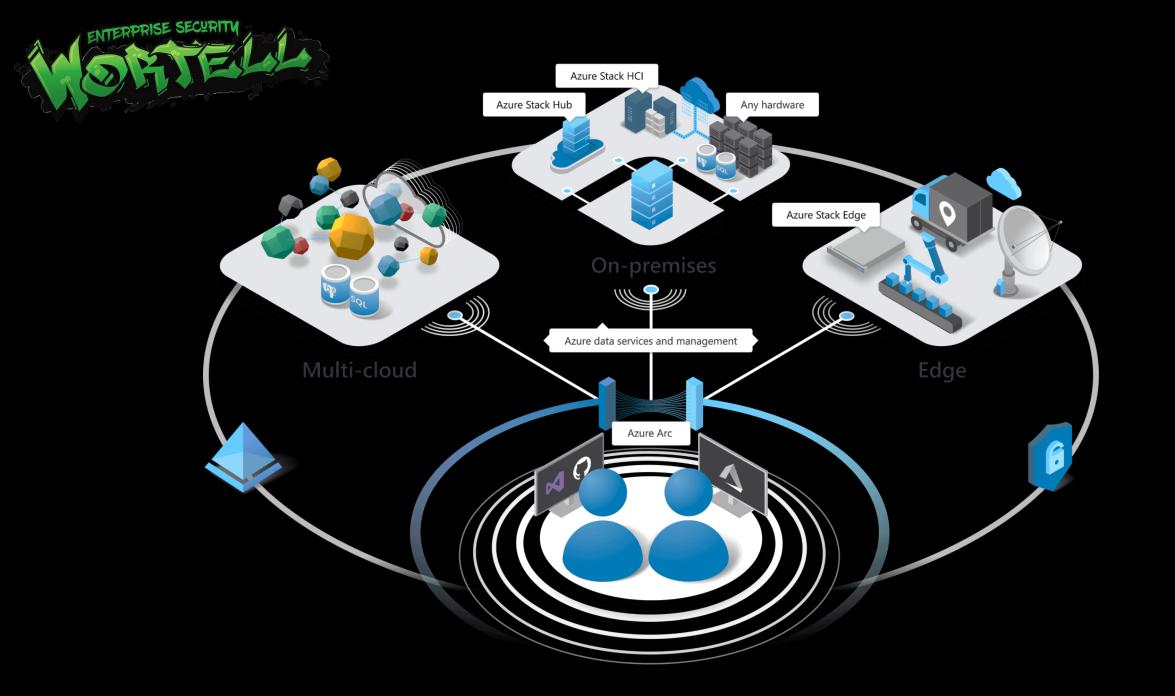
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Agenda

- Azure Arc
- · Azure Bastion
- Azure Stack
- Azure Firewall
- · Azure Cloud Shell
- Azure Governance
- Azure Monitor
- Azure Security Center
- · Azure Kubernetes Service
- Azure Sentinel



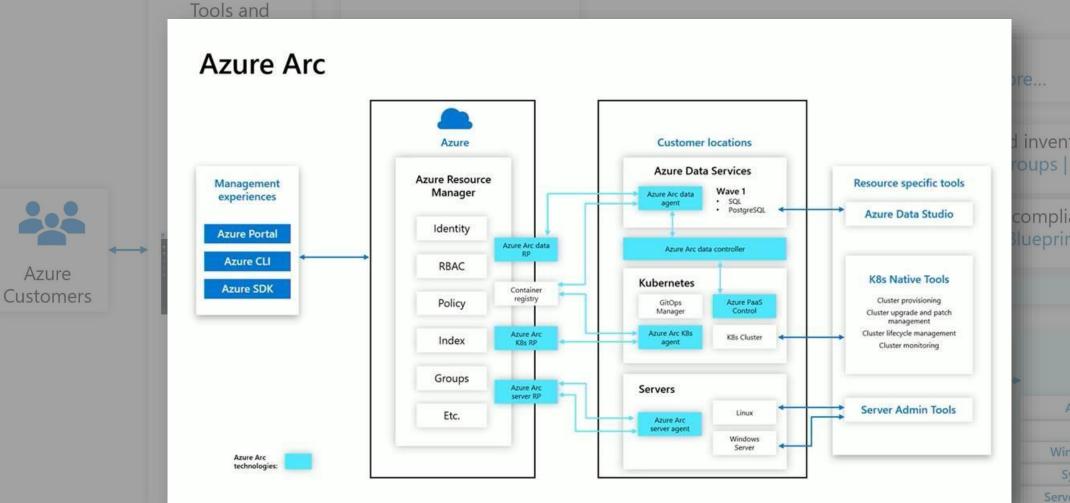


Azure Arc



- Deployment of Azure services anywhere
- Extend Azure management to any infrastructure
- Register a Linux or Windows VM, or Kubernetes cluster
- Two services in preview
 - SQL Managed Instance
 - PostgreSQL Hyperscale
- Applications deployed as microservices to Kubernetes
- Use Azure Security Center to ensure compliance
- Enable preview via Azure cloud shell
 - az account set --subscription "{Your Subscription Name}"
 - az provider register --namespace 'Microsoft.HybridCompute'
 - az provider register --namespace 'Microsoft.GuestConfiguration'





inventory oups | Tags

compliance Blueprints

local tools

Azure Data Studio

K8s Native Tools

Windows Admin Center

System center suite



Microsoft Azure Script H * 4 2 <>>















Generate script

Run the following script on any machine you're onboarding to Azure Arc. The script can also onboard multiple machines. Note that those machines will all be assigned to the same subscription, resource group, and Azure region. Learn more

Download the package Invoke-WebRequest -Uri https://aka.ms/AzureConnectedMachineAgent -OutFile AzureConnectedMachineAgent.msi

Install the package msiexec /i AzureConnectedMachineAgent.msi /l*v installationlog.txt /qn | Out-String

Run connect command

& "\$env:ProgramFiles\AzureConnectedMachineAgent\azcmagent.exe" connect --resource-group "demo-hybirdrp-rg" --tenant-id "72f988bf-86f1-41af-91ab-2d7cd011db47" --location "westeurope" --subscription-id "c8123574-273e-4755-93b2-1cc287f99223"





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Windows Admin Center

Server Manager ∨

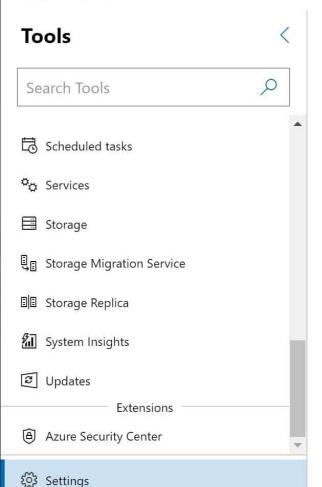
Microsoft







server01





General

Environment variables

Azure Arc for Servers

Power configuration

Remote Desktop

Role-based Access Control



Azure Arc for Servers PREVIEW ①

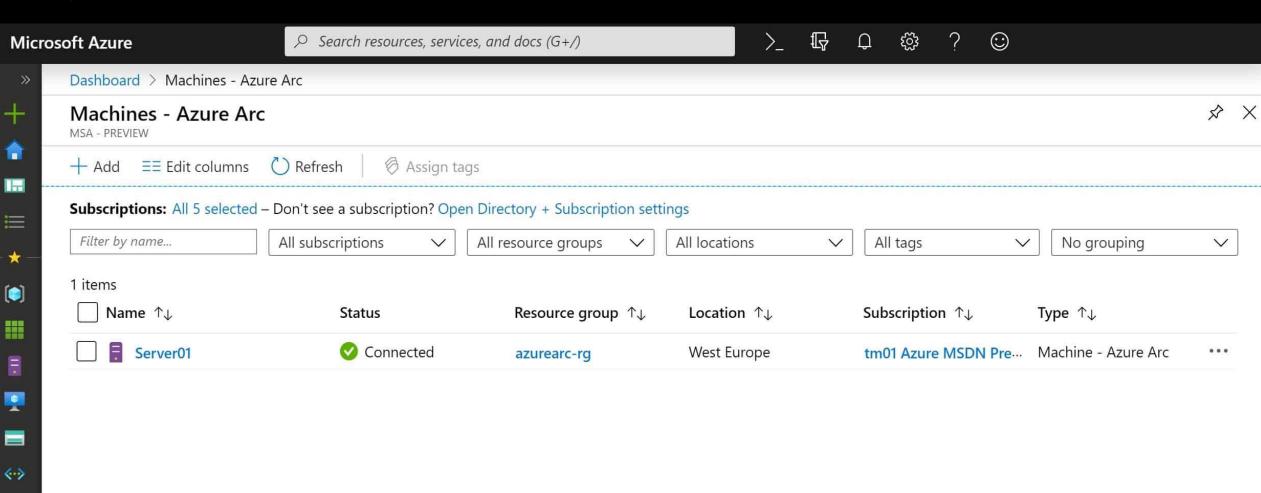
Inventory your on-premises servers in Azure, organize and manage servers using tags, govern servers using Azure policy, control access using Azure RBAC, and enable additional services from Azure. Azure Arc for Servers comes at no additional cost.

Get an overview of Azure Arc for Servers

Sign in to Azure



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Azure Arc



"Why Azure Arc Is A Game Changer"

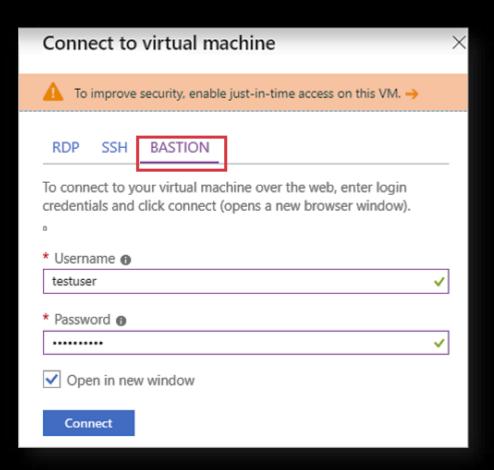
https://www.forbes.com/sites/janakirammsv/2019/11/05/why-azure-arc-is-a-game-changer-for-microsoft

- vs AWS Outposts
- vs Google Anthos

Azure Bastion



- Private and fully managed RDP and SSH access
- Bastion Host in your subscription
- Provisioned directly in your VNET
- HTML5 web client
- Using SSL through public IP address
- General Available







Azure Stack



- Extending Azure to everywhere you run your business
- Azure Stack is now Azure Stack Hub
- Windows Server Hyper-V is now Azure Stack HCI
- Introducing Azure Stack Edge
- Azure Arc extends to Azure Stack Hub and HCI
- Azure Kubernetes Services (AKS) is now GA on Azure Stack Hub
- Windows Virtual Desktop (WVD) preview on Azure Stack Hub

Azure Stack rugged series





Azure Firewall



- Azure Firewall Manager is now in preview
- Central network security policy and route management
- Secured Virtual Hubs
- Register the network provider:
 - Register-AzProviderFeature -FeatureName AllowCortexSecurity -ProviderNamespace Microsoft.Network
- Migrate your Azure Firewall to :
 - https://github.com/wortell/azure/blob/master/MigrateAzureFirewallConfigToAzureFirewallPolicy.ps1

3. Configure routing in your Secured Virtual Hub Route Settings page.

Define network and application level rules for traffic filtering across multip

rules for traffic filtering across multiple Azure Firewall instances in Secured Virtual Hubs.

Create an Azure Firewall Policy

Create a Secured Virtual Hub

Secured virtual hubs use an Azure Firewall to route network traffic according to policies that you define.

Convert Existing Hubs

Convert an existing Azure Virtual WAN Hub to Secured Virtual Hub for traffic filtering and routing using Azure Firewall.

Create an Azure Firewall Policy

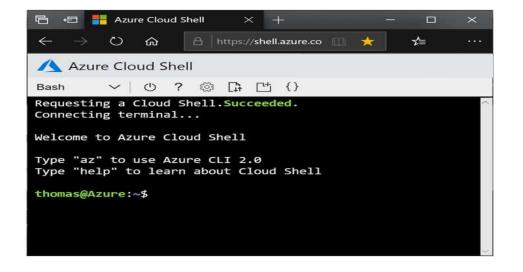
Create a Secured Virtual Hub

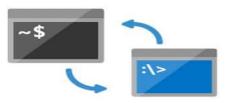
Convert Existing Hubs

Azure Cloud Shell

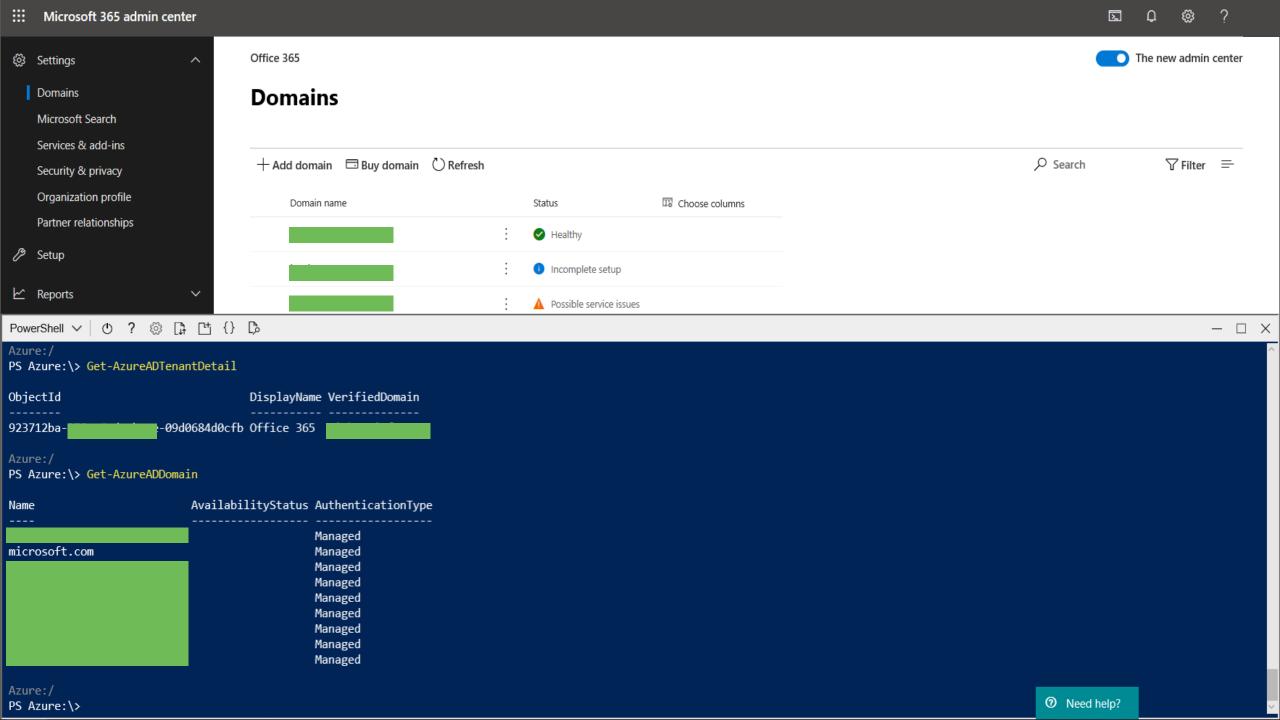


- Browser-accessible, pre-configured shell experience
- Manage Azure resources
- New: choose region where to store your data
- **New:** integration in Microsoft 365 admin center









Azure Governance



- Test your ARM template
 - test-aztemplate
- ARM template for VS code extension updated
 - Intellisense improvements
 - // and /* */ comments
 - Open-source snippets (aka.ms/ARMTemplateSnippets_
 - [more]
- What-If is coming to ARM templates
 - Pre-deployment analysis

How What-If Works

JSON

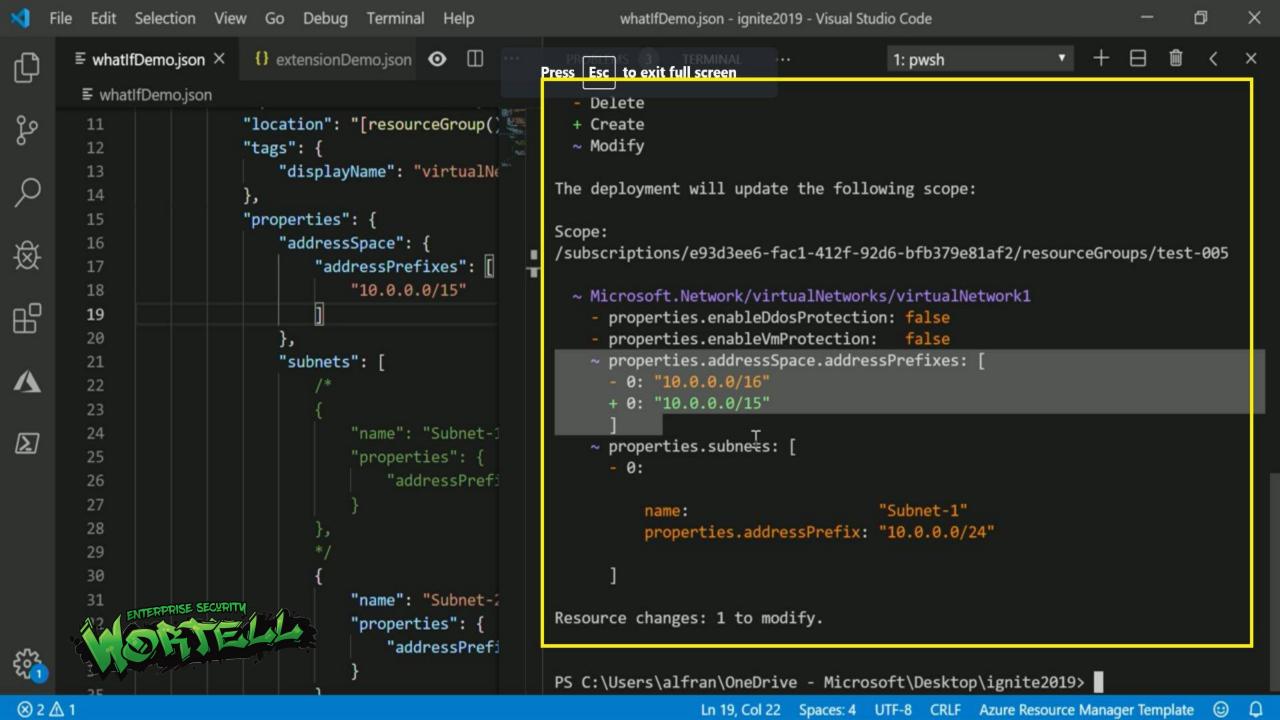
ARM Template

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Target scope
Parameters
Mode (Incremental,
Complete)



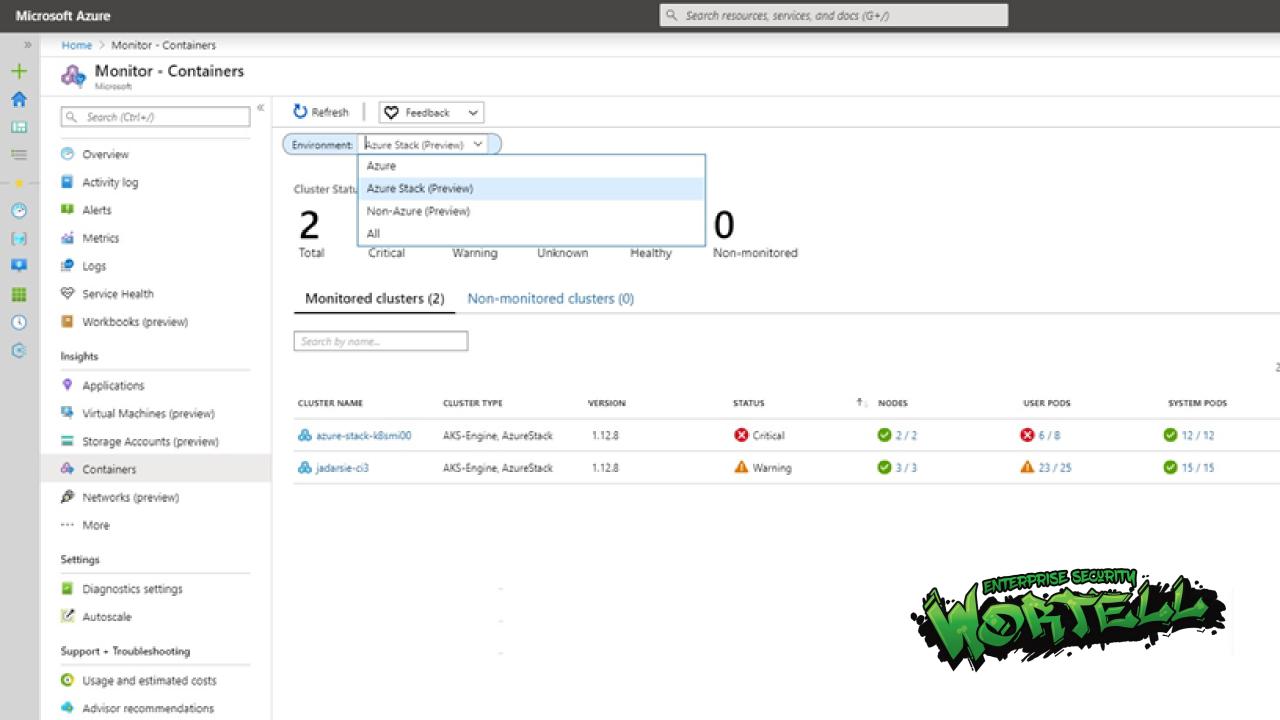


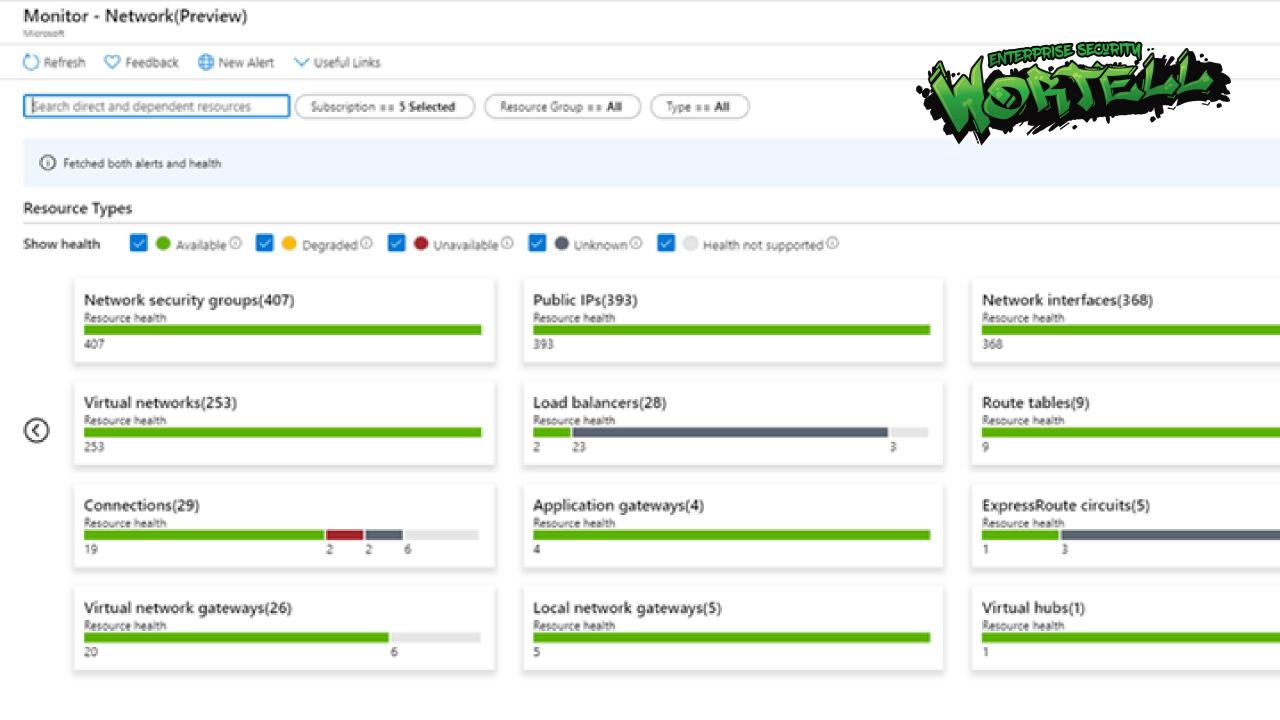


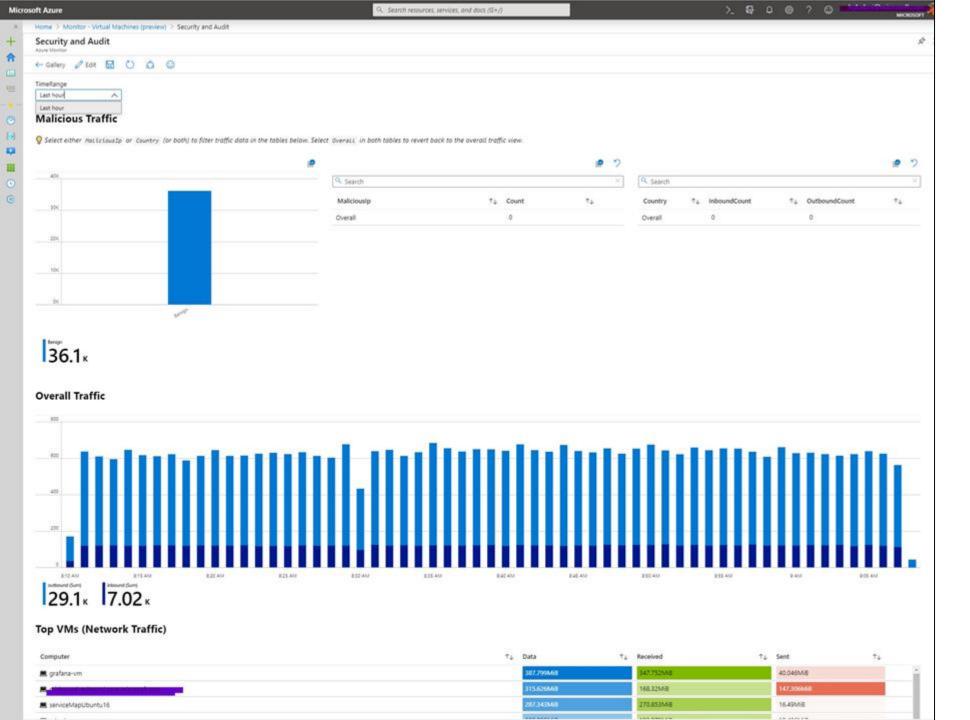
Azure Monitor



- Monitor containers anywhere
- Prometheus integration
- Network Insights is now in preview
 - Troubleshoot networking issues faster
 - Process NSG logs at 10-minute interval now
- Workbooks
- Azure Monitor for Cosmos DB
- Capacity-based pricing for Log Analytics





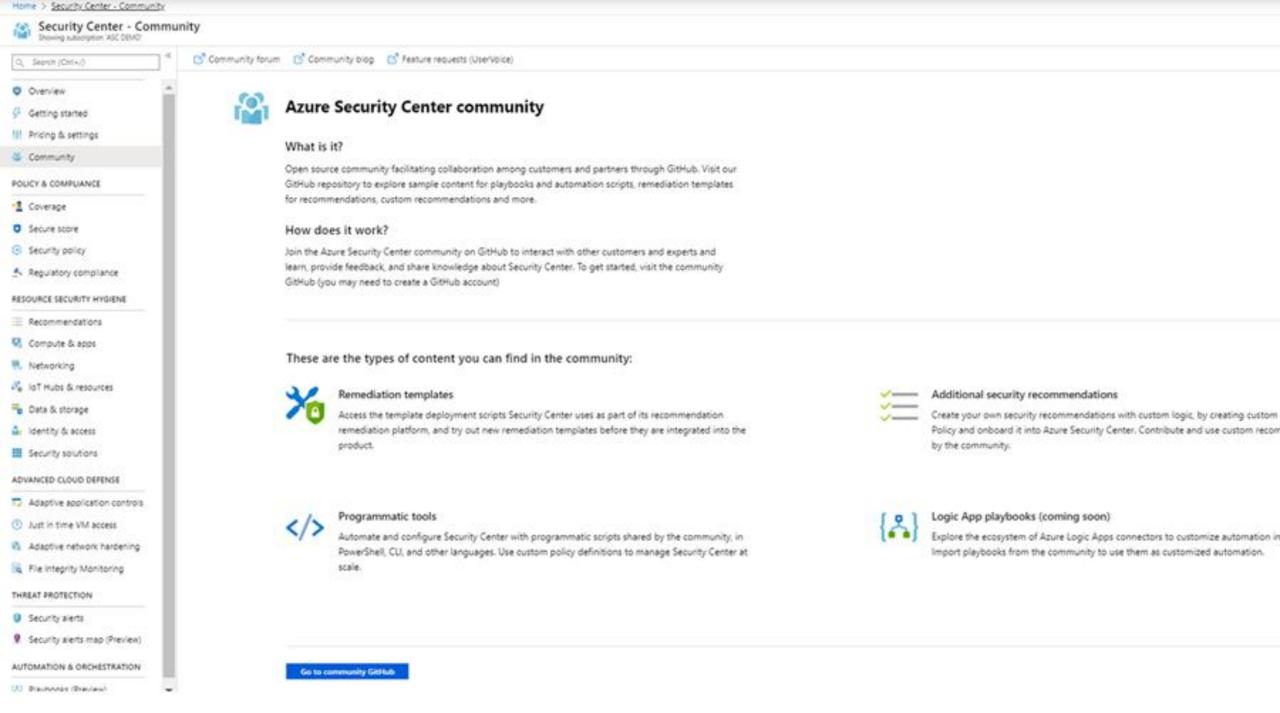




Azure Security Center



- Secure Score enhancements
- Continuous exporting & reporting
- Custom policies in preview
- Additional regulatory compliance standards
 - NIST SP 800-53 R4, SWIFT CSP CSCF v2020, Canada Federal PBMM, UK Official, UK NHS, Azure CIS 1.1.0
- Vulnerability Management on Servers
 - Qualys-based
- Automatic onboarding of EC2 VM's on AWS in preview
- Onboard VMs to ASC using Windows Admin Center
- Logic Apps connector



Azure Kubernetes Service



- BREAKING NEWS: ATP for Azure Kubernetes
 - Discover managed AKS instances
 - Recommend best practices in AKS
 - Threat detection: "a privileged container detected"
 - Container scanning in Azure Container Registry (vulnerability management)

- Find it in Azure Security Center
- Use ASC to get these AKS ATP signals into Azure Sentinel

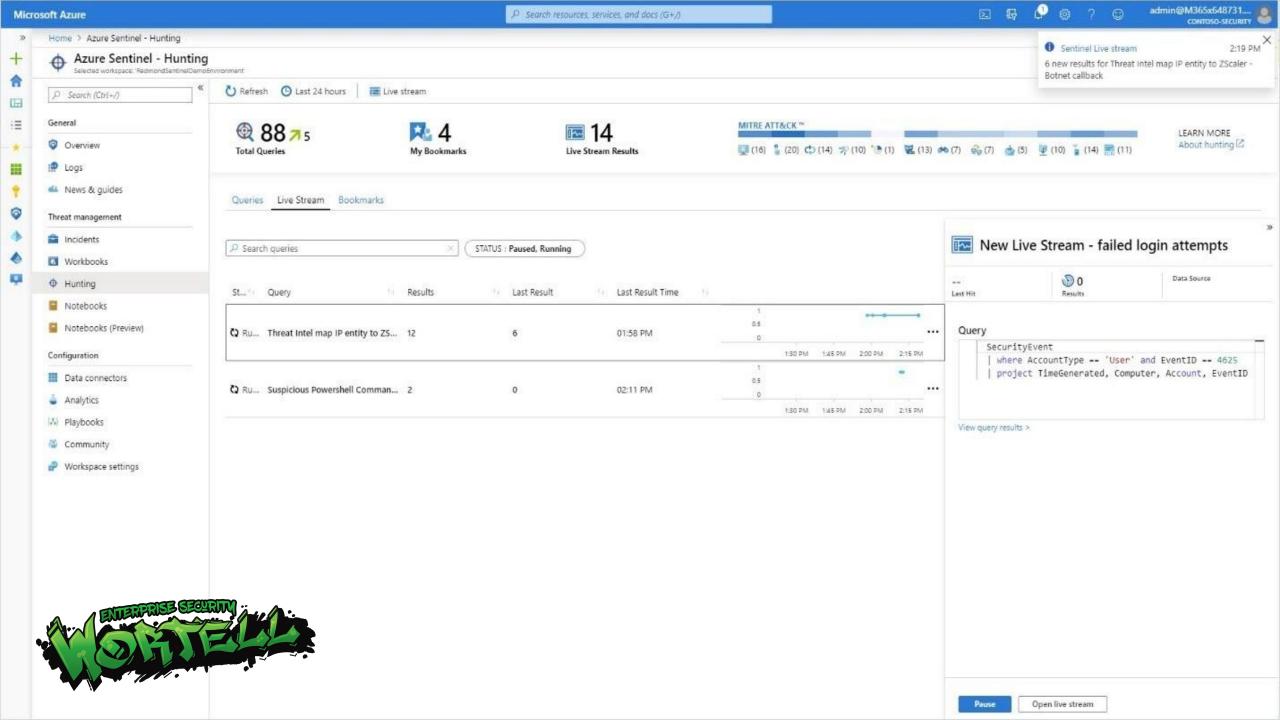


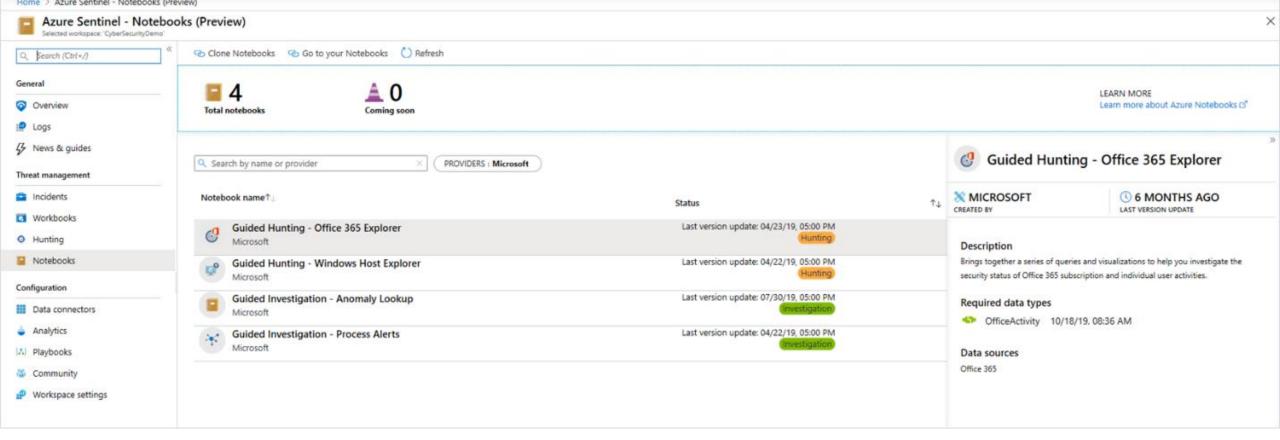


Azure Sentinel



- More connectors
 - ZScaler
- LiveStream now in preview
- Connect threat intelligence sources using STIX/TAXII
- Automatically detonate URLs to speed investigation
- Defender ATP connector in preview
 - Alerts only
- Coming soon
 - New Jupyter notebooks experience







List of configured TAXII 2.0 servers

FRIENDLY NAME TAXII SERVER

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COLLECTION ID

LAST INDICATOR RE...

O Search



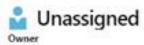
* ThreatIntelligenceIndicator --

"> Undo € Redo







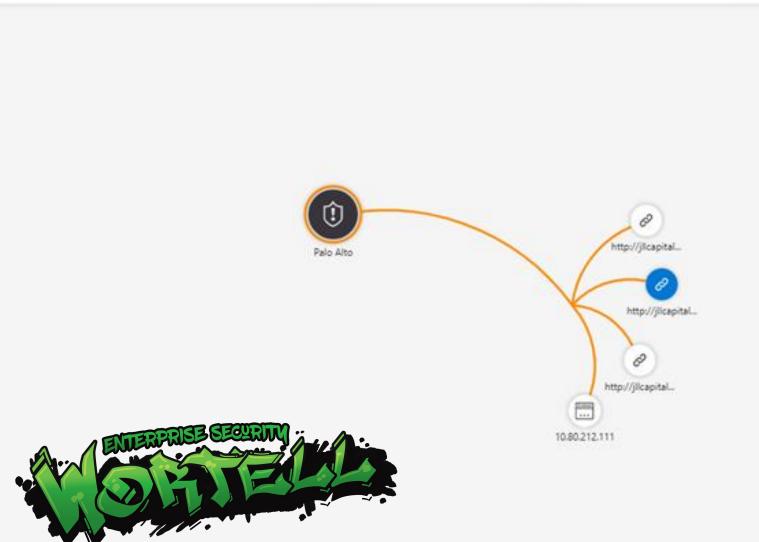


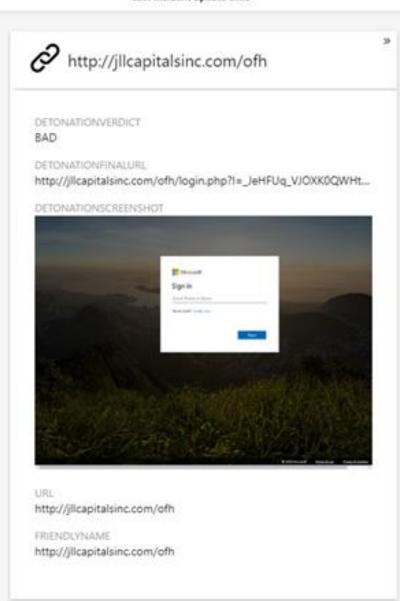
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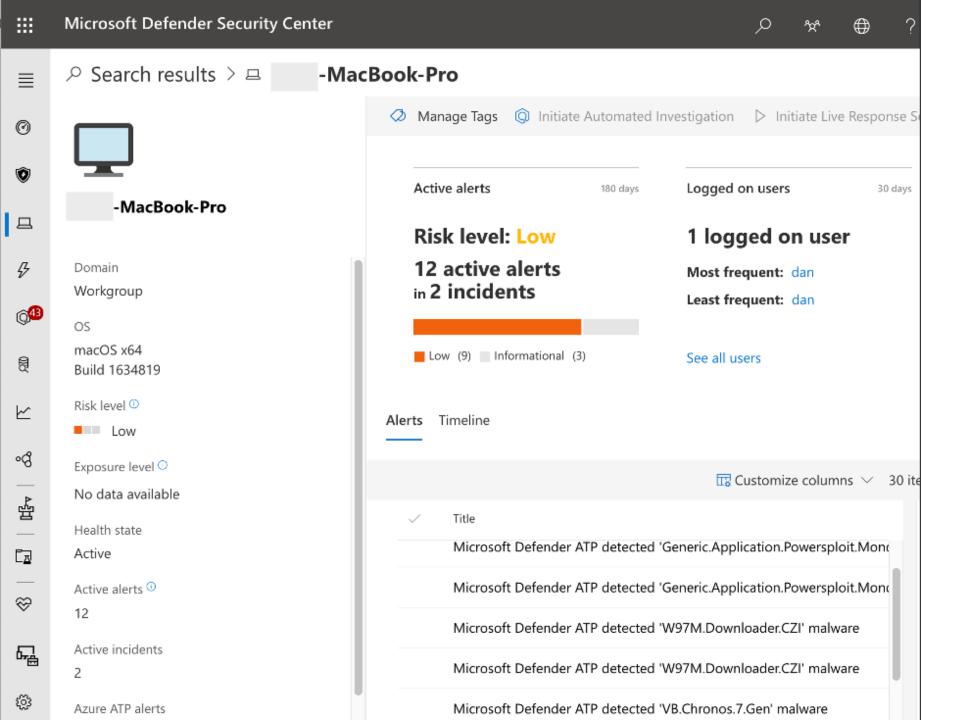




Microsoft Defender ATP



- EDR capabilities for Mac now in preview
 - Live response
 - Remediate options
 - Rich investigation experience
- Linux agent announced





Other



- Customer Lockbox for Microsoft Azure beyond virtual machines
- Release of Microsoft Secure Code Analysis toolkit
- Azure Disk Encryption in more places, and more services offering customer-managed keys
 - Azure Event Hubs, Azure Managed Disks, Power BI
- New Azure policies to manage certificates across your organization
 - fi: Expiry Policy: Flag certificates that are (or are not) renewed within "X" number of days of their expiry date.
- Azure Key Vault Virtual Machine extension now generally available
- Free Azure managed certificates for your domains on Azure





Win een Ninjacat t-shirt





https://security.wortell.nl