



# SIMPLIFYING TECHNOLOGY

# Cryptch

*Making you ready  
for the Technology  
Driven World.*

- HARDWARE • NETWORKING • ETHICAL HACKING
  - CCNA & CCNP • CLOUD • IOT

**Visit us at [www.cryptch.tech](http://www.cryptch.tech)**

# Office & Contact details



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[www.cryptch.tech](http://www.cryptch.tech)



# Our Aim

"WE SEE YOUR SUCCESS AS OUR SUCCESS."

With professional trainers and Practical based learning we focus on present & shoot for the future.

Making you ready for future technology & challenges waiting in your path of Success.

The need of 21st Century are Skilled People, Play your part in Development of our Nation, become a Certified IT Professional, today.

The future is waiting for you make a move now, get ready for the future. Don't wait for others, find your own way & create your own Destiny.

Join Cryptch & kick-start your career in IT industry.



# *A word from our Founder & CEO*

In 21st Century, technology is everywhere.

People like you and me- are making it, maintaining it & upgrading it for our day to day usage.

*"Technology is much less frustrating when you understand it."*

We aim to provide, 'Quality' & 'Updated' education to everyone at an Affordable rate and make technology easier to understand.

## Mr. Anand Sharma

- 11+ YEARS OF EXPERIENCE IN IT INDUSTRY
- COMPTIA N+
- CISCO CERTIFIED NETWORK ASSOCIATE
- CISCO CERTIFIED NETWORK PROFESSIONAL
- RED HAT CERTIFIED SYSTEM ADMINISTRATOR
- MICROSOFT CERTIFIED PROFESSIONAL
- CERTIFIED ETHICAL HACKER
- MANAGED MULTIPLE AMC'S



At Cryptch, our focus is to guide students to a better future and make them self-reliant so that, they can become whatever they dream of. It may be An Entrepreneur or to reach their dream Job.

It's clear, those who have tech skills are much more adaptable to learning.

Thank you for choosing us. I hope you have a happy journey ahead in technical field. Wishing you all a lot of success ahead.

# Why Cryptch

01

## IT Experience

Teaching is not new to us. We have Experienced & Certified Trainers. They make technology - easy to understand.



## Education Quality

We offer Robust Educational model & latest course-ware at affordable price. P.S. Without compromising with quality.

03



## Upskill

05

Even if you have a few skills; you can always up-skill yourself .



CONTACT US



02

## Talent acquisition

"A diamond's worth can only be identified by a Jeweler." We are dedicated to find the hidden potential.



04

## Certification

We act as gateway between you and Global Certifications.



06

## Focus

We aim to provide Focused and Practical Education.



Still have Doubts?  
Contact us



EVEN  
PANDEMIC  
COULDN'T  
STOP US

# We also provide Services



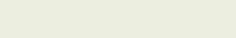
## 02 HARDWARE UPGRADATION

Without any worries get the best hardware for your computer at cheap price.



## 04 TROUBLESHOOTING

One of essential service in Computer field. Our engineers will make sure that any issue never troubles you again.



## 01 ANNUAL MAINTENANCE CONTRACT

Find instant and cheap solutions to computer emergencies like hard drive crashes, viruses, monitor on the blink, power fluctuations, and lots more.

## 03 NETWORKING

We do all level of networking may it be routing, switching or just structured cabling.



## 05 AUTOMATION

We also provide automation solution To minimize the work load.



We aim to provide the best in class services in affordable rates, without compromising with quality.

Leave all your computer problems to us without any worries.

Last but not the least, some details about

# OUR ANNUAL MAINTENANCE CONTRACT

Annual Maintenance Contract or AMC provides security for all IT services and computer equipment like a printer, desktop, etc. AMC is an agreement between a firm, who provide maintenance and a consumer who has purchased a service.

## 01 Save money

Save money & make budgeting easier. Pay once and get Unlimited service

## 03 Services

We focus of providing  
• uninterrupted service including Hardware and Software.

## 05 Emergency

We are always there to help you and provide emergency support.

## 07 No worries

We've got you covered . Focus on what is important to you and your team.



## 02 EXPERT SERVICE

You get expert and professional technicians without spending lots of money.



## 04 INCREASE UPTIME

Focus on Other Things and Leave Maintenance to the Pros.



## 06 REPORTS

Get Quarterly report & improve productivity.







Cryptch



# AZURE ADMINISTRATOR



# What Is Azure?

Azure is Microsoft's public cloud platform. Azure offers a large collection of services including platform as a service (PaaS), infrastructure as a service (IaaS), and managed database service capabilities.

Azure, like other cloud platforms, relies on a technology known as virtualization. Most computer hardware can be emulated in software, because most computer hardware is simply a set of instructions permanently or semi-permanently encoded in silicon. Using an emulation layer that maps software instructions to hardware instructions, virtualized hardware can execute in software as if it were the actual hardware itself.



## Microsoft Azure

## Why Azure?

Azure facilitates easy mobility and a reliable consistent platform between on-premise and public Cloud. Azure provides a broader range of hybrid connections including virtual private networks (VPNs), caches, content delivery networks (CDNs), and ExpressRoute connections to improve usability and performance.

Organizations dependent on Microsoft tools like Office 365, Outlook and SharePoint invests in a cloud platform that impeccably integrates with Microsoft products. Use of Azure simplifies operations by using the same virtual on-premise machines like Windows and Linux.

Applications that run easily, unaffectedly and scale from 10 to 10 million users can be created without any additional coding by using Azure. Azure Storage provides ductile, safe, secure and performance-efficient storage services in cloud. It becomes simpler to change settings and use more processors for the application to use.



# SYLLABUS

## 1. INTRODUCTION TO AZURE

- Overview of Azure
- Cloud technology overview
- Azure Regions
- Managing Azure with the Azure portal
- Managing Azure with Windows PowerShell
- Overview of Azure Resource Manager
- Azure management services

## 2. MANAGING MICROSOFT AZURE

- Creating Azure Account
- Types of Administrator
- Use the Azure portals
- Use Azure Resource Manager features via the Azure portal.
- Use Azure PowerShell, Visual Studio, Azure Cloud Shell
- Overview of Azure Resources and Resource Group
- Creating and Managing Azure Resources and Resource Group

## 3. IMPLEMENTING AND MANAGING AZURE NETWORKING

- Overview of Azure networking
- Overview of Azure networking Components
- Overview of Azure Virtual Network Gateways
- Overview of Azure Point to Site, Site to Site and Express Route VPN
- Implementing and managing Azure virtual networks (Vnet)
- Configuring Azure virtual networks and Managing IP and Subnet
- Configuring Azure virtual network connectivity
- Configuring Azure Vnet Peering

# SYLLABUS

## 4. USING A DEPLOYMENT TEMPLATE TO IMPLEMENT AZURE VIRTUAL NETWORKS

- Creating an Azure virtual network by using a deployment template
- Creating a virtual network by using PowerShell
- Configure virtual networks

## 5. CONFIGURING CONNECTIVITY AZURE RESOURCE MANAGER VIRTUAL NETWORKS

- Using a PowerShell script to connect a classic VNet and an Azure Resource Manager VNet
- Configuring Azure Virtual Network Gateways – Point to Site VPN
- Validating virtual network connectivity

## 6. IMPLEMENTING VIRTUAL MACHINES

- Overview of Azure Resource Manager Virtual Machines
- Planning for Azure virtual machines
- Deploying Azure Resource Manager Virtual Machines
- Authoring Azure Resource Manager Templates
- Overview of classic virtual machines

## 7. CREATING AZURE RESOURCE MANAGER VIRTUAL MACHINES IN AZURE

- Creating virtual machines by using the Azure portal and Azure PowerShell
- Validating virtual machine creation Deploying Azure Resource Manager virtual machines by using Azure Resource Manager templates
- Using Visual Studio and an Azure Resource Manager template to deploy virtual machines
- Using Azure PowerShell and an Azure Resource Manager template to deploy virtual machines

# SYLLABUS

## **8. MANAGING AZURE VIRTUAL MACHINES**

- Configuring virtual machines
- Configuring virtual machine disks
- Managing and monitoring Azure virtual machines
- Managing classic virtual machines
- Configuring Availability Set and Availability Zone
- Configuring VMSS
- Implementing desired state configuration (DSC)
- Implementing storage space-based volumes.

## **9. IMPLEMENT AND MANAGING AZURE LOAD BALANCE**

- Overview Azure Load Balancer
- Types Of Azure Load Balancers
- Configuring Azure Load Balancer and Azure Traffic Manager Load Balancer

## **10. PLANNING AND IMPLEMENTING STORAGE, BACKUP, AND RECOVERY SERVICES**

- Planning storage, creating and configuring storage account
- Implementing and Managing Storage
- implement Azure storage Account Kind and Replication
- Managing access keys and generate shared access signature Keys
- Implementing Azure Content Delivery Networks
- Implementing Azure Backup
- Planning for and implementing Azure Site Recovery
- Creating and configuring Azure storage
- Using Azure file storage
- Protecting data with Microsoft Azure Backup

## **11. IMPLEMENTING NETWORK SECURITY GROUP (NSG)**

- Create security rule
- Associate NSG to a subnet or network interface
- Identify required ports
- Evaluate effective security rules

# SYLLABUS

## 12. AZURE NAME RESOLUTION - DNS

- Configure Azure DNS
- Configure custom DNS settings
- Configure private and public DNS zones

## 13. AZURE APP SERVICE

- Overview Azure App Service
- Configuring and Managing Website's
- Pushing Webpages
- Configuring Custom Domain

## 14. AZURE MEDIA SERVICE

- Overview Azure Media Service
- Media Services Accounts
- Storage Accounts
- Stream on demand, Uploading Videos
- Packaging and Publishing Videos
- Player Client

## 15. IMPLEMENTING AZURE ACTIVE DIRECTORY AND MANAGE HYBRID IDENTITIES

- Creating and managing Azure AD tenants
- Creating and managing Azure AD Users and Groups
- Configuring application and resource access with Azure AD Users
- Overview of Azure AD Premium
- Administering Active AD · Configuring SSO
- Configuring Multi-Factor Authentication and enable MFA by using bulk update
- Configuring SSO from a Windows 10-based computer that is joined to Azure AD
- Manage Azure AD Connect
- Install Azure AD Connect, including password hash and pass-through synchronization
- Use Azure AD Connect to configure with on-premises Active Directory Domain Services (AD DS)

# Other Courses we offer

- Computer Networking
- Windows Operating System
- Computer Hardware
- AWS Cloud
- CCNA
- CCNP
- Ethical Hacking
- edhat Certified Solutions Associate
- Microsoft Azure Administrtror
- Microsoft Certified Solution Associate
- Automation with Python & Powershell

and much more



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